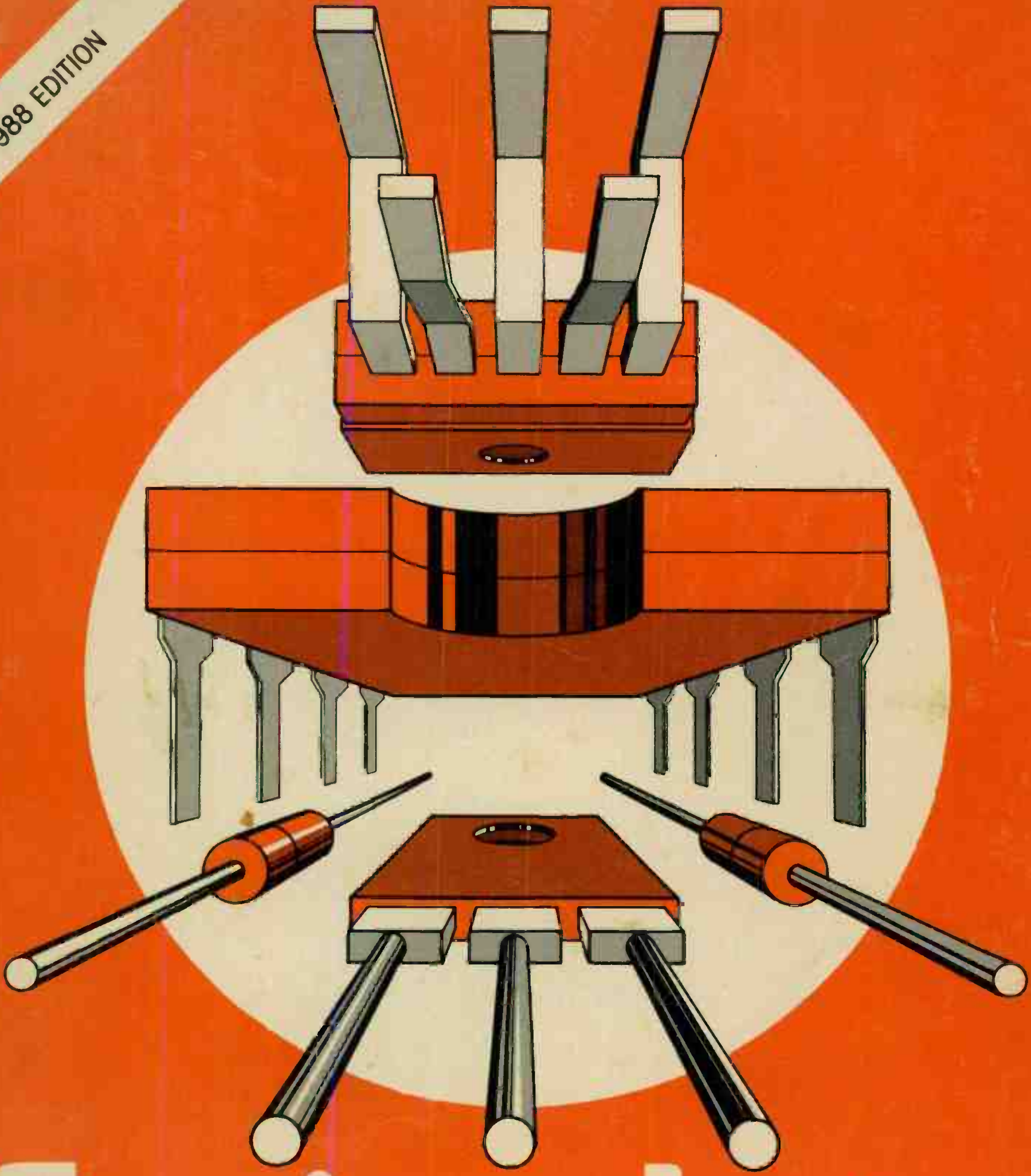
ARCHER®

Cat. No. 276-4011

1988 EDITION



Semiconductor Reference Guide

INCLUDES OVER 94,000 SEMICONDUCTOR SUBSTITUTIONS

INTEGRATED CIRCUITS INDEX BY GENERIC NUMBER

GENERIC NUMBER	CATALOG NUMBER	DESCRIPTION	PAGE NUMBER	GENERIC NUMBER	CATALOG NUMBER	DESCRIPTION	PAGE NUMBER
AY-3-8910A	276-1787	PROG SND GEN	106	555	276-1723	TIMER	65
CTS256AL2	276-1786	CODE-TO-SPCH	77	556	276-1728	DUAL TIMER	66
HYB4164-P2	276-2506	MEMORY (RAM)	29	567	276-1721	TONE DECODER	72
MC1488	276-2520	QUAD LINE DRV	45	723	276-1740	ADJ REG	69
MC1489	276-2521	QUAD LINE RCVR	48	741	276-007	OP AMP	62
MSM2764RS	276-1251	MEMORY (EPROM)	35	1458	276-038	DUAL OP AMP	63
SP0256	276-1784	SPCH PROC	96	3909	276-1705	LED FLASHER/OSC	73
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TDA7000	276-1304	FM RADIO	115	4017	276-2417	DECADE CNT	24
TLC548	276-1796	A-D CONV	50	4049	276-2449	INV HEX BUFFER	25
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UM3482	276-1797	MELODY GEN	27	7404	276-1802	HEX INV	40
317T	276-1778	ADJ REG	67	7408	276-1822	AND GATE	41
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353	276-1715	WD BAND AMP	60	7805	276-1770	5V REG	70
383	276-703	AUD PWR AMP	55	7812	276-1771	12V REG	70
386	276-1731	AUD PWR AMP	56	7815	276-1772	15V REG	70

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Although great care has been taken in the preparation of this Reference Guide to ensure the technical correctness, no responsibility is assumed by Radio Shack for any consequences of the use of items listed. Nor does Radio Shack assume any responsibility for any infringements of patents or other rights of third parties which may result from its use.

INTRODUCTION

This SEMICONDUCTOR REFERENCE HANDBOOK is intended to be just that—a reference handbook. It is not a definitive text book on semiconductors. It is a compilation of data on Radio Shack's line of prime-quality ARCHER® semiconductors. Every ARCHER device covered in this Handbook is guaranteed prime—they are not "fall-outs" or "seconds"; all are top-quality, with known JEDEC, EIA or manufacturer's numbers.

At the back of the book is a cross-reference listing for replacement of Transistors, Diodes and other interchangeable semiconductor devices. The total number of cross-referenced devices exceeds 94,000. These cross-reference/replacement listings are computer-selected and are based on careful analysis of important parameters of the listed devices.

NOTE: If you can't find a replacement listing for a device you require, refer to the specification listings of the appropriate ARCHER family device. Often you will be able to make suitable replacements based on the information presented.

Each ARCHER replacement should meet or exceed the required parameters. However, due to differences in Quality Control and Manufacturing procedures (which often allow for or result in broad parameter variations), and because many of the ARCHER devices are capable of better performance than the original, Radio Shack does not guarantee, nor does it imply, that the listed items will provide an exact replacement in **every** instance. Therefore we recommend that you check the voltage and current requirements of the circuit (and other pertinent specifications) before replacement and compare with the specifications listed for that particular ARCHER device.

HOW TO USE THIS BOOK

This book has been prepared to aid in BOTH replacement and original applications of Semiconductor devices. The information included will be invaluable for the service technician as well as the circuit designer (whether he be an engineer, hobbyist, student or electronics experimeter).

We have included hints on handling Semiconductor devices, operating considerations, and some simple tests to aid you in evaluating the quality of the device in existing equipment (and thus the need for replacement). Also, a complete section on the specifications for each of the ARCHER devices is included; if there is any question in your mind about replacement equivalents or original use, refer to the appropriate category in the book. You will find the important characteristics specified there.

The next to last section is an extensive listing of replacement and cross reference between other manufacturer's numbers (both JEDEC/EIA 2N—numbers and in-house designations) and the ARCHER devices. This listing provides for the substitution of over 94,000 semiconductors with ARCHER devices.

The final section includes case style drawings and some handy reference notes, a comprehensive glossary of commonly used words, plus symbols and abbreviations.

CARE AND HANDLING OF TRANSISTORS

Most modern transistors are somewhat immune from mechanical shock; however, it is always a good idea to keep them from excessive mechanical shocks, especially the metal-case type (avoid dropping, etc).

When cutting transistor leads, use scissor-type cutting tools (rather than diagonal cutting tools which use a crimping action). Crimp-type cutting tools produce a mechanical shock along the lead which when transmitted to the semiconductor chip or material can cause fracture. Consider the force with which the cut lead flies off the crimp-type cutting tool and you have a good idea of the intensity of the equal and opposite force which acts on the lead going into the device.

It is always a good practice to use a heat-sink tool on a transistor lead when soldering (use a low-wattage iron—30-watts or less). Heat from soldering can cause problems (especially with certain types of semiconductor devices). Thus, to be sure, always use a heat-sink on the lead when soldering. Gripping the lead with long nose pliers between the solder connection and the case of the device makes a good heat-sink; or use a tool designed for such use.

SILICON OR GERMANIUM?

The quickest way to determine if a transistor is germanium or silicon type, is to check the normal emitter-base voltage drop. With NPN devices, if the base is approximately 0.25 volts positive with respect to the emitter, it is a germanium type. If the voltage is about 0.65 volts, it is a silicon type. For PNP devices, the voltage will be the same value, but opposite in polarity (0.25 volts for germanium and 0.65 for silicon).

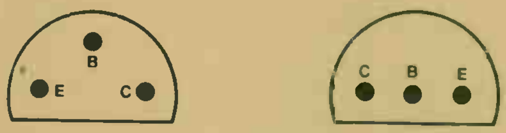
OPERATING CONSIDERATIONS

Before replacing an original-equipment device with the recommended Archer Type:

(A) Compare the lead or terminal arrangement of the Archer replacement device with the lead or terminal arrangement of the original device. If these arrangements are different, and the original transistor is a "plug in" type, bend the leads of the ARCHER device so that the base, emitter and collector leads will mate with the original transistor leads. Trim the leads after soldering in place.

CAUTION: Be particularly careful about "pin-circle" and "in-line" lead break-out type transistors. Often one manufacturer makes a type with "in-line" leads, while another may make the same type with "pin-circle" configuration. **Doublecheck both the original and the replacement device before soldering or plugging in transistors.**

BOTTOM VIEW


PIN-CIRCLE IN-LINE

(B) Certain considerations are involved whenever an original equipment transistor is replaced by one having a different type designation. When an ARCHER series transistor is used to replace an original equipment device in an untuned amplifier stage operating at a low signal level such as the untuned RF-amplifier (antenna) stage of a radio receiver, or a low-level AF amplifier stage, it is generally unnecessary to make any circuit adjustment to assure proper performance of the equipment. However, when a replacement is made in a turned RF amplifier stage, it is always advisable to check the alignment of the associated tuned circuits to assure proper tracking and to achieve the required gain without loss of stability.

(C) When replacements are made in stages operating at relatively high power levels, such as Class A and Class B AF output stages of automobile radio receivers, phonographs and AF-amplifier systems, the transistor bias should be checked and adjusted, if necessary, to protect the ARCHER replacement transistors against excessive dissipation and to minimize distortion. Means for making adjustments are generally provided in the equipment, and the necessary instructions are usually given in the equipment manufacturer's service data.

(D) When installing an ARCHER transistor as a substitute for an original equipment type in an FM tuner, TV tuner, or other circuits operating at frequencies in the VHF or UHF regions, it is extremely important not to change any of the lead lengths or position of the original circuit. Before removing the original transistor, carefully note its position with respect to other circuit components as well as the lengths and placement of the transistor leads, and duplicate these details as closely as possible with the ARCHER replacement transistor. Failure to observe this precaution can result in improper tuning or circuit instability. The same holds true for any replacement of Integrated Circuits, specially in FM radios and TV Receivers. Failure to observe this precaution can result in damage in the device. Transistor substitution in tuned circuits will often require realignment of the circuit.

SILICON VS SELENIUM RECTIFIERS

Silicon rectifiers are inherently more efficient than selenium or other metallic-oxide type rectifiers. When a silicon rectifier is used to replace a selenium rectifier in the power supply of a typical line-operated radio or TV receiver, the silicon rectifier will frequently deliver higher DC output voltage than the original device.

In some cases, this higher supply voltage may improve the performance of the equipment. However, in many other cases, it may immediately or eventually damage filter capacitors and/or other components which were designed to withstand only the voltage delivered by the original selenium rectifier. To prevent such damage, it is generally advisable to insert a power type resistor in series with the silicon rectifier either on the input side, between the AC supply and the rectifier, or on the output side between the rectifier and the first filter capacitor. The value of this resistor will depend on the required reduction in the DC output voltage and on the DC load current of the equipment. This value may be determined experimentally or calculated from the equation:

$$R = \frac{E}{I}$$

where R is the required resistance in ohms, E the required reduction in DC output voltage in volts and I the DC load current in amperes.

The wattage rating of the resistor should be at least 2 X EI (in no case less than 10 watts).

SOLDERING PRECAUTIONS

Extreme care should always be used in making solder connections to semiconductors. Momentary application of excessive heat, or even prolonged application of a properly heated soldering tool to a semiconductor lead or terminal, can permanently damage the device. Observe the following precautions in soldering a semiconductor lead or terminal:

1. Solder as far as possible from the body of the semiconductor.
2. Never, apply heat or molten solder to a lead or terminal for longer than 10 seconds or at a point closer than 1/16 inch to the body of the device.
3. Use a low voltage iron (30 watts or less) specifically intended for use with transistors or miniature circuit components.
4. Keep the surfaces to be soldered clean and the tip of the soldering tool adequately tinned so that the connection can be made as quickly as possible.
5. Always use a heat sink on the lead when soldering. Gripping the lead or terminal with longnose pliers between the solder connection and case or body allows the pliers to act as a heat sink, conducting heat away from the internal elements of the device.

ABOUT CASE DIMENSIONS

In some instances, the case of an ARCHER Semiconductor may be slightly taller or thicker than that of the original device or have a slightly different shape, particularly if the original device is a foreign type not made to U.S.A. EIA (JEDEC) standards. These mechanical differences should not affect the performance of the equipment in which the replacement is made and normally will not prevent or complicate the installation of the ARCHER replacement device.

You should realize that cross-reference substitution listings are created based **on electrical parameters (not necessarily on mechanical size or type)**. Thus, when you make substitutions based on our listings, check for physical/mechanical compatibility. If space is limited, it would be a good idea to check physical dimensions as well as electrical specs before making substitution.

GENERAL PRECAUTIONS

ARCHER transistor and ARCHER semiconductors should not be inserted or withdrawn from circuits with the power on, because transient currents may cause permanent damage to the device. In some cases ARCHER semiconductors are in metal cans and thus could possibly become shock hazards if they are allowed to operate at a voltage appreciably above or below ground potential.

For the most effective protection, a power transistor should be operated with an adequate heat sink and with the lowest value of resistance or impedance in the emitter-to-base circuit consistent with driving signal considerations. The transistor should be protected against extremely high collector voltage pulses which may be generated when the device is operated with inductive loads particularly when current transients are present.

When replacing a power transistor or rectifier which is attached to the equipment chassis, or to a special heat sink, observe the following precautions:

A. In the case of oxide coated metal washers or wafers, which are frequently used as electrical insulators between the cases of power transistors and the chassis or heat sink, it is important not to scratch, chip or otherwise damage the oxide surface.

B. When installing an ARCHER power transistor, where a mica or oxide coated metal washer was used to insulate the case of the original device electrically from the case, apply a thin coating of Heat Sink Compound (Radio Shack Number 276-1372) between the washer and the chassis or heat sink.

TESTING A TRANSISTOR

Before replacing a transistor you want to be sure it needs to be replaced. Always check the entire circuitry to be sure the transistor requires replacement.

The best method for checking transistors is to use a good transistor checker (dynamic in-circuit and out-of-circuit type). However, a sensitive VOM can give you a good indication of the quality of the device.

I. In-Circuit Testing

A. First, check to see if the emitter-base junction is forward-biased. An NPN transistor should show the base 0.2 to 0.65 volts positive with respect to the emitter (approximately 0.25 volts for a germanium type and 0.6 volts for silicon). A PNP transistor should show the base 0.2 to 0.65 volts negative with respect to the emitter (0.25 volts for germanium and 0.6 volts for silicon).

B. Check to see if the device is functioning as an amplifier. Short the emitter-base junction to remove forward bias. Voltage at the collector lead should rise to approximately the potential of the collector supply buss line. Any difference is caused by ICES (collector-to-base leakage current). The closer the collector voltage approaches the buss line, the lower ICES is and the better the transistor.

II. Out-of-Circuit Testing

Again, for the best indication of transistor quality, use a good transistor checker. However, an ohmmeter can be used as described here.

Before using the ohmmeter, find out which polarity of the internal ohmmeter battery is connected to which test lead (not all ohmmeters have the + battery polarity connected to the red lead and the − battery polarity connected to the black lead). To determine the polarity of the leads when using the ohmmeter function, use an external voltmeter or study the schematic of your VOM.

Also, remember that in most transistor circuits you are dealing with low voltages and currents (in some cases, very low). Therefore, **NEVER** use RX1 scale (extensive currents can flow through a junction, permanently damaging the transistor). It is best to determine the maximum amount of current available in each resistance range before using an ohmmeter for testing semiconductor junctions.

After you have evaluated your VOM for the above and are sure you will not damage a transistor (with excessive current or voltage in any given ohmmeter range), proceed as follows:

A. Small Signal PNP Germanium Transistors
  1. Connect the positive lead of your ohmmeter to the emitter. Connect the negative lead to the base. You should read 200-500 ohms.
  2. Connect the negative lead to the collector. You should read 10K-100K. Shorting collector base, the resistance should decrease.

B. Small Signal NPN Germanium Transistors
  Reverse the polarity of the leads; the readings should be approximately the same.

C. Power PNP Germanium Transistors
  1. Connect the positive lead to the emitter. Connect the negative lead to the base. The reading should be 35-50 ohms.
  2. Connect the negative lead to the collector The reading should be several hundred ohms. Shorting collector to base, the resistance should decrease.

D. Power NPN Germanium Transistors
  Reverse the polarity of the leads; the reading should be approximately the same.

E. Small Signal PNP Silicon Transistors
   1. Connect the positive lead to the emitter. Connect the negative lead to the base. The reading should be 1K-3K.
   2. Connect the negative lead to the collector. The reading should be very high (may show as an "open").

F. Small Signal NPN Silicon Transistors
   Reverse the polarity of the leads; the readings should be approximately the same.

G. Power PNP Silicon Transistors
   1. Connect the positive lead to the emitter. Connect the negative lead to the base. The reading should be 200-1K.
   2. Connect the negative lead to the collector. The reading should be about 1 megohm or more.

H. Power NPN Silicon Transistors
   Reverse the polarity of the leads; the readings should be approximately the same.

The resistance readings noted above can only be approximate; as long as you obtain somewhat **proportionate** readings (emitter-base readings as compared to emitter-collector), you can safely assume the transistor is OK.

HANDLING OF INTEGRATED CIRCUITS

Because MOS devices have extremely high input resistance, they are susceptible to damage when exposed to static electrical charges (even electrical charges that normally build up on the human body can cause damage). To avoid possible damage to the devices during handling, testing, or actual operation, the following procedures should be observed:

1. Except when being tested or in actual operation, the leads of devices should be in contact with a conductive material, to avoid build-up of static charge.

2. Soldering iron tips, tools, metal parts of fixtures and handling facilities should be grounded.

3. Transient voltages may cause permanent damage to the device if it is removed or inserted with the power on.

4. Do not apply signals to the input with the power supply off.

5. All unused input leads must be connected to either VSS or VDD (whichever is appropriate for the logic circuit involved).

DIODES AND RECTIFIERS

GENERAL PURPOSE DIODES RATINGS @ 25°C

Catalog Number	PIV (min) V	If A	Ir (max) @ Vr µA	Vf (max) @ If V	Case Style
276-1101	50	1.000	10	1.6	DO41
276-1102	200	1.000	10	1.6	DO41
276-1103	400	1.000	10	1.6	DO41
276-1104	600	1.000	10	1.6	DO41
276-1114	1000	2.500	200	1.0	A1vm
276-1122	75	0.010	250nA	1.0	A1
276-1123*	60	0.085	15	1.0	A1
276-1141	50	3.000	500	1.2	A3q
276-1143	200	3.000	500	1.2	A3q
276-1144	400	3.000	500	1.2	A3q
276-1165†	40	1.000	5mA	0.55	A1

*GERMANIUM
†SCHOTTKY

ZENER DIODES—1 Watt

Catalog Number	Vz Volts ±10%	Iz @ mA	Zz @ Iz ohms max	Case Style
276-565	5.1	49	7	DO41
276-561	6.2	41	2	DO41
276-562	9.1	25	7	DO41
276-563	12.0	21	9	DO41
276-564	15.0	17	14	DO41

BRIDGE RECTIFIERS

Catalog Number	PIV (min) V	If (max) A	Case Style
276-1146	50	4	M532a
276-1151	50	1.4	M548
276-1152	100	1.4	M548
276-1161	50	1	Y1
276-1171	100	4	M532a
276-1173	400	4	M532a
276-1180	50	6	M532a
276-1181	250	6	M532a
276-1185	50	25	—

BIPOLAR TRANSISTORS

Catalog Number	Direct Commercial Equivalent	Mat.	Appl.	Polarity	Power Diss. @25°C Free Air	f_T Typical MHz	V_{CBO} V	V_{CEO} V	V_{EBO} V	I_C Max	I_B Max	h_{FE}	@V_{CE} V	@ I_C mA	I_{CBO} at max V_{CB}	Case Style
276-1604#	2N3906	S	G.P.	PNP	350mW	250	40	40	5	200mA	—	60	1	0.1	—	T092
276-1617#	2N2222	S	G.P.	NPN	500mW	250	60	30	5	800mA	—	35	10	0.1	—	T018
276-2009	MPS2222A	S	G.P.	NPN	625mW	300	75	40	6	800mA	—	50	10	1	10nA	T092
276-2016	MPS3904	S	S	NPN	625mW	300	60	40	6	200mA	—	100-300	10	1	50nA	T092
276-2017	TIP31	S	P	NPN	40W‡	3	40	40	5	3A	1A	10-50	4	3A	300μA	T0220AB-2
276-2020	TIP3055	S	P	NPN	90W‡	3	100	70	7	15A	7A	20-70	4	4A	1mA	T0220
276-2023	MPS2907	S	S	PNP	625mW	200	60	40	5	600mA	—	50	10	1	20nA	T092
276-2027	MJE34	S	P	PNP	90W‡	3	40	40	5	10A	3A	20-100	4	3A	220μA	T0220
276-2030	2N3053	S	P	NPN	5W	100	60	40	5	700mA	—	50-250	10	150	—	T039
276-2041	2N3055	S	P	NPN	115W‡	2.5	100	60	7	15A	7A	20-70	4	1A	—	T03
276-2043	MJ2955	S	P	PNP	150W‡	4	100	60	7	15A	7A	70	10	0.5	0.7mA	T03
276-2055	2SC1308	S	SW	NPN	50W‡	—	1500	400	6	7A	0.8A	3	2	4A	100μA	T03
276-2058	2N4401	S	G.P.	NPN	625mW	250 min.	40	60	6	600mA	—	500	10	1	0.1μA	T092
276-2068	TIP120	S	P*	NPN	65W‡	0.1	60	60	5	5A	120mA	2500	3	500	0.2mA	T0220AB-2

NOTE: All ratings given are for 25°C except where otherwise noted. #—Archer-Pack ‡With heat sink

MATERIAL:

S—Silicon; G—Germanium

APPLICATION:

S—Switch

G.P.—General Purpose

P—Power amp/switch

RF/IF—RF/IF frequency

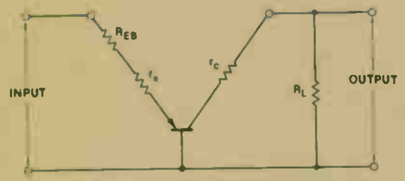
*—High Gain Darlington

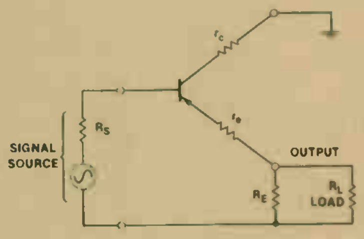
UHF—Ultrahigh frequency

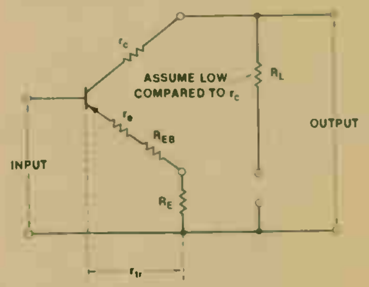
LL—Low Level

SW—TV Sweep

USEFUL INFORMATION







Parameters of Common-Base Circuit

Input Impedance $Z_{in} = r_{tr}$

Load Impedance $Z_L = R_L$ in parallel with input impedance of following stage.

Current Gain $A_I = \alpha = \frac{\beta}{1+\beta}$

(In practice, α is 0.95 to 0.995, or approximately 1.)

Voltage Gain $A_V \approx \frac{Z_L}{r_{tr}} = g_m Z_L$

Parameters of Common-Collector Circuit

Input Impedance $Z_{in} = (\beta + 1)Z_L$
where,
Z_L is R_L in parallel with R_E.

Output Impedance $Z_{out} = \frac{R_s}{\beta+1}$
where,
R_s is the output imped ance of the signal source.

Current Amplification $A_I = \beta$

Voltage Amplification A_V = Less than unity

Parameters of Common-Emitter Circuit

Input Impedance $Z_{in} = h_{fe} r_{tr}$

Load Impedance $Z_L = R_L$ in parallel with input impedance of next stage

Current Gain $A_I = \frac{\Delta I_C}{\Delta I_B} = h_{fe}$
where,
$h_{fe} = \beta = \frac{I_c}{I_b} = \frac{\alpha}{1 - \alpha}$

Voltage Gain $A_V = \frac{\Delta V_C}{\Delta V_B} = \frac{Z_L}{r_{tr}} = g_m Z_L$

Power Gain $A_p = \frac{V_{out} I_{out}}{V_{in} I_{in}} = \beta \frac{Z_L}{r_{tr}}$

SILICON N-CHANNEL JUNCTION FIELD EFFECT TRANSISTOR

MPF102
276-2062

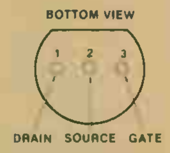
GENERAL DESCRIPTION

The MPF102 is designed for small signal applications. These include VHF amplifiers and mixers.

ABSOLUTE MAXIMUM RATINGS
(T_A = 25°C unless otherwise noted)

Drain-Source Voltage	25 V
Drain-Gate Voltage	25 V
Gate-Source Voltage	25 V
Gate Current	10 mA
Total Device Dissipation	310 mW
Operating Junction Temperature	125°C
Storage Temperature Range	−65 to +150°C

PIN CONNECTION



Drain and source may be interchanged

N-CHANNEL MOSFET TRANSISTOR

IRF511
276-2072

GENERAL DESCRIPTION

The efficient geometry and unique processing of the HEXFET design achieve very low on-state resistance combined with high transconductance and great device ruggedness.

This transistor also features all of the well established advantages of MOSFETs such as voltage control, freedom from second breakdown, very fast switching, ease of paralleling, and temperature stability of the electrical parameters.

FEATURES

- Fast switching
- Low drive current
- Ease of paralleling
- No second breakdown
- Excellent temperature stability

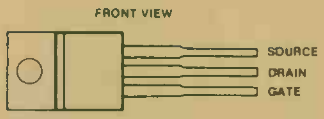
APPLICATIONS

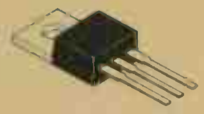
- Switching power supplies
- Motor controls
- Inverters
- Choppers
- Audio amplifiers
- High energy pulse circuits

ABSOLUTE MAXIMUM RATINGS

Drain-Source Voltage, V_{DS}	60V
Drain-Gate Voltage (R_{GS} = 1 MΩ), V_{DGR}	60V
Gate-Source Voltage, V_{GS}	±20V
Continuous Drain Current, I_D @ $T_C \cong 86°C$	3A
Pulsed Drain Current, I_{DM}	8A
Maximum Power Dissipation, P_D	20W
Linear Derating Factor	0.16W/K
Inductive Current, Clamped, I_{LM} (See Fig. 1) L = 100 μH	8A
Operating Temperature Range, T_j	−55 to +150°C
Storage Temperature Range, T_{stg}	−55 to +150°C

PIN CONNECTION





IRF511 276-2072

TEST CIRCUITS

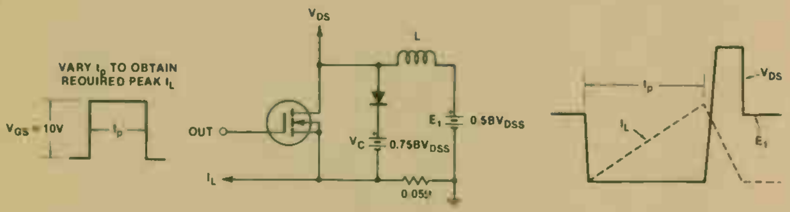


Figure 1—Clamped Inductive Test Circuit and Waveform

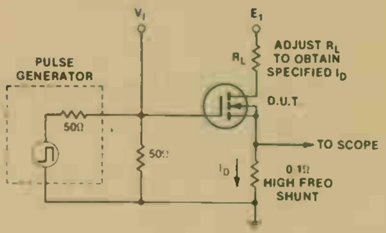
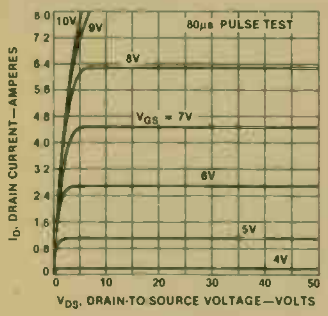
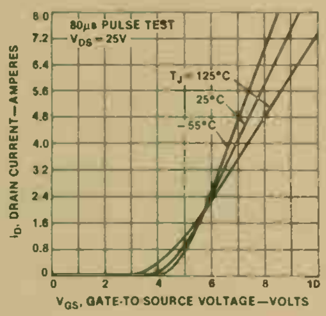


Figure 2—Switching Time Test Circuit

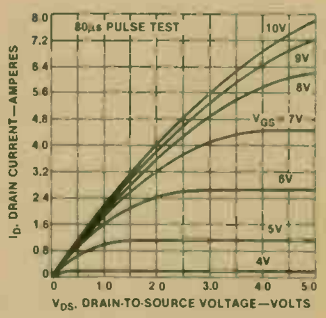
TYPICAL CHARACTERISTICS



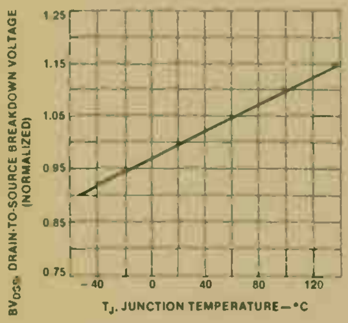
Output Characteristics



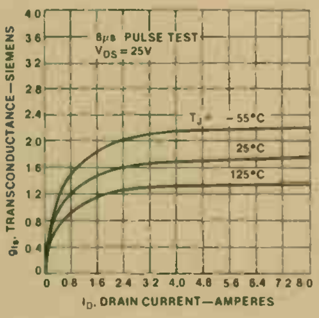
Transfer Characteristics



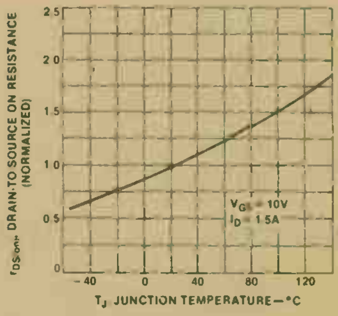
Saturation Characteristics



Breakdown Voltage
vs Temperature



Transconductance
vs Drain Current



Normalized On-Resistance
vs Temperature

SILICON N-CHANNEL JUNCTION FIELD-EFFECT TRANSISTOR

2N3819
276-2035

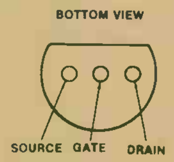
GENERAL DESCRIPTION

The 2N3819 is designed for general purpose small-signal applications. It features low capacitance between drain and gate terminals and an excellent high-frequency figure of merit. It achieves a low noise figure and good power gain with low crossmodulation and intermodulation.

ABSOLUTE MAXIMUM RATING
(T_A = 25°C unless otherwise noted)

Gate-Source Breakdown Voltage BV_{GSS}	−40 V
Zero Gate Voltage Drain Current I_{DSS}	20 mA
Forward Transconductance g_{fs}	7.0 mmhos
Reverse Gate Leakage I_{GSS}	−100 pA
"ON" Resistance r_{DS}	500 ohms
Pinch Off Voltage $V_{GS(OFF)}$	−6.0 V
Output Conductance g_{os}	10 µmhos
Feedback Capacitance C_{rss}	0.9 pF
Input Capacitance C_{iss}	4.0 pF
Power Gain G_{ps}	12 dB
Power Dissipation	360 mW

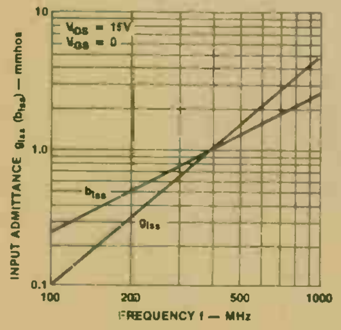
PIN CONNECTION



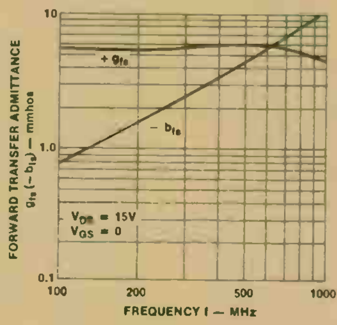
T092

TYPICAL CHARACTERISTICS

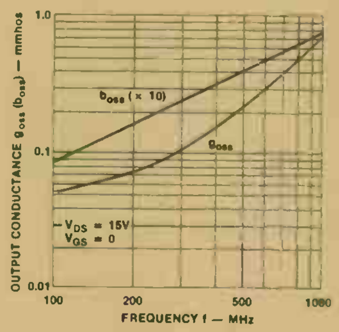
COMMON SOURCE



Input Admittance
vs Frequency

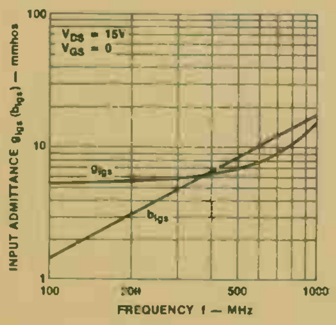


Forward Transfer Admittance
vs Frequency

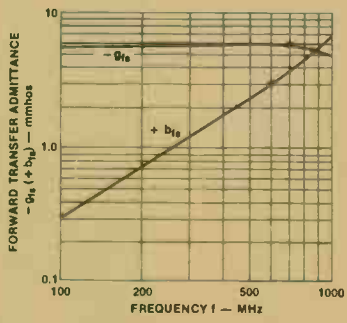


Output Conductance
vs Frequency

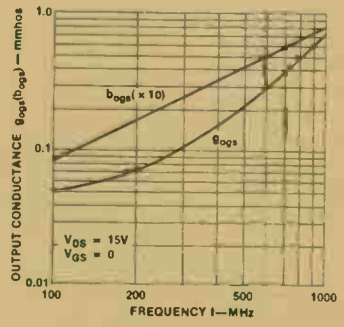
COMMON GATE



Input Admittance
vs Frequency



Forward Transfer Admittance
vs Frequency



Output Conductance
vs Frequency

BS170
276-2074

N-CHANNEL TMOS FET

GENERAL DESCRIPTION

This TMOS FET is designed for high-voltage, high-speed switching applications such as line drivers, relay drivers, CMOS logic, microprocessor or TTL-to-high voltage interface and high voltage display drivers.

PIN CONNECTION

PIN 1 DRAIN
2 GATE
3 SOURCE

FEATURES

- Fast Switching Speed—$t_{on} = t_{off} = 6.0$ ns Typ
- Low On-Resistance—5.0 Ohms Max
- Low Drive Requirement, $V_{GS(th)} = 3.0$ V Max
- Inherent Current Sharing Capability Permits Easy Paralleling of Many Devices

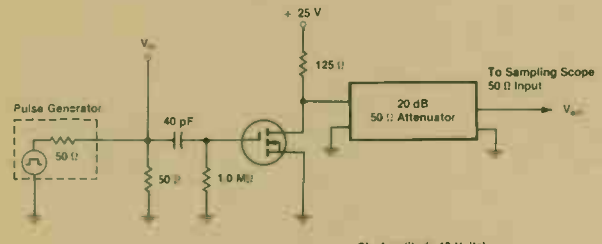
ABSOLUTE MAXIMUM RATINGS

Drain-Source Voltage (V_{DSS}) . . . . 60 V
Gate-Source Voltage (V_{GS}) . . . . ± 20 V
Drain Current—Continuous (1) (I_D) . . . . 0.5 A
Total Power Dissipation @ $T_C = 25°C$ (P_D) . . . . 0.83 W
Operating and Storage Temperature Range . . . . − 55°C to + 150°C

(1) The Power Dissipation of the package may result in a lower continuous drain current.

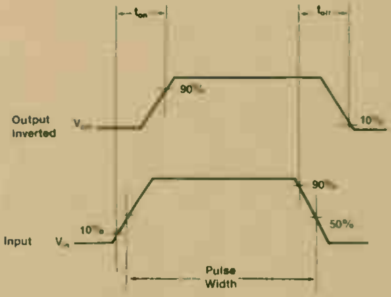
TYPICAL APPLICATIONS

Switching Test Circuit

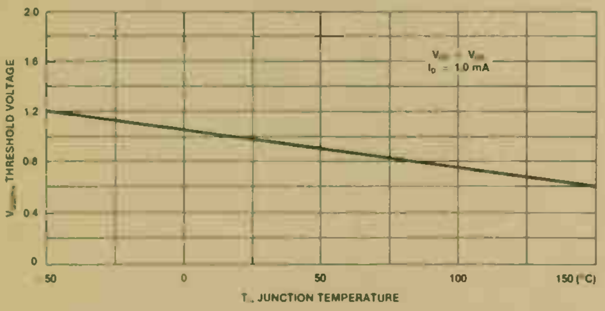


(V_{in} Amplitude 10 Volts)

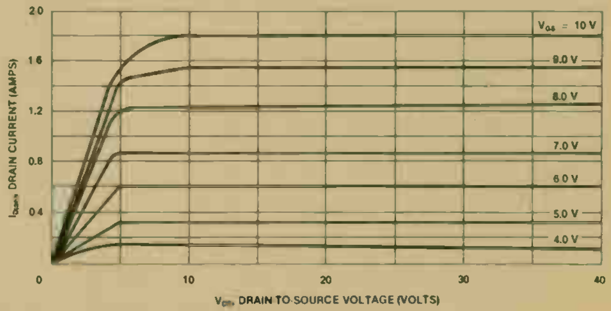
Switching Waveforms



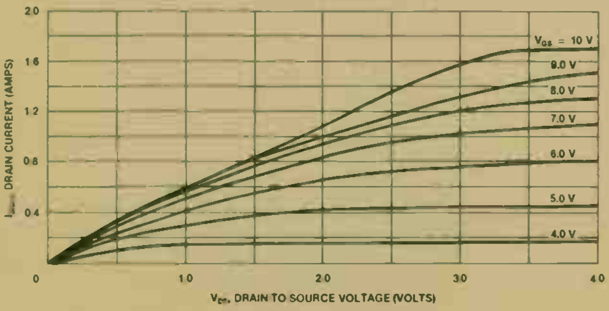
V_{GS}(th) Normalized Versus Temperature



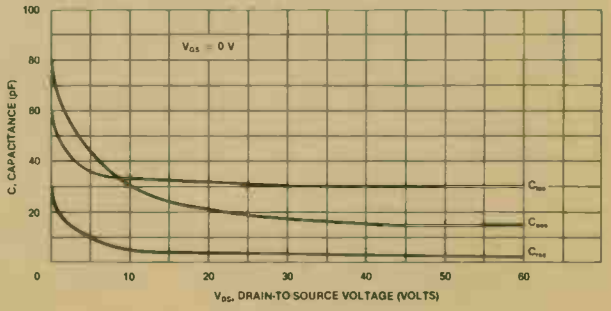
On-Region Characteristics



Output Characteristics



Capacitance Versus Drain-to-Source Voltage



TRANSIENT/SURGE ABSORBER

ERZ-C20DK201U
276-568
ERZ-C14DK201U
276-570

GENERAL DESCRIPTION

ZNR varistors are zinc oxide resistors whose resistance changes as a function of the applied voltage. The ZNR has a bilateral and symmetrical V-I characteristic curve and can therefore be used in circuits in place of back-to-back zener diodes. This gives your circuit clamping protection in either direction. The ZNR provides a highly reliable and economical way to protect against repeated high voltage transients and surges such as those produced by lightning, switching surges and noise spikes.

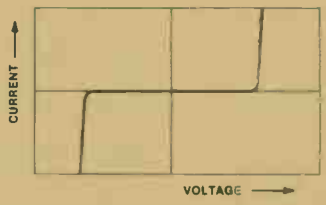
FEATURES

- Excellent clamping voltage characteristic and fast response time (< 50 nsec.) when subjected to impulse surges. Eliminates the discharge lag that is indicative of gap-type arrestors.
- Bilateral and symmetrical V-I characteristic curve. The ZNR can, therefore, be used both in AC and in DC circuits, for protection of either positive or negative transients.

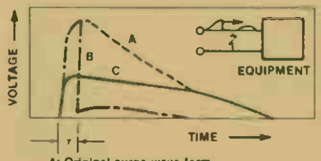
ABSOLUTE MAXIMUM RATING

Varistor Voltage (V-I @ 1mA DD) (185V 225V)	200V
Applied Voltage AC_{RMS})	130V
(DC)	170V
Clamping Voltage @ Test Current (8 × 20 µsec) V_C(V)	340V
IP (A) (276-568)	100A
IP (A) (276-570)	50A
Peak Pulse Current (8 × 20 µs) 1 Time (276-568)	6500A
(276-570)	4500A
Energy (J) (276-568)	70J
(276-570)	35J
Power (276-568)	1W
(276-570)	0.60W
Capacitance (PF @ 1kHz) (276-568)	2000PF
(276-570)	1000PF
Operating Ambient Temperature	−40° + 85°C
Storage Temperature	−40° +125°C

PIN CONNECTION



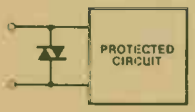
V-I Characteristic Curve



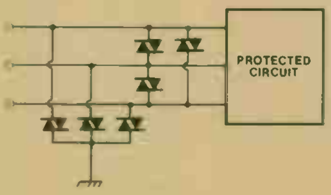
A: Original surge wave form
B: Clamping voltage using gap type arrestor
C: Clamping voltage using ZNR
τ: Discharge lag

Clamping Voltage Characteristics

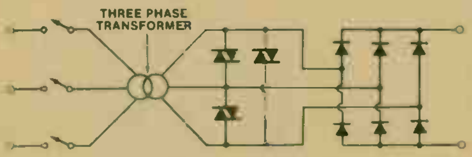
TYPICAL APPLICATIONS



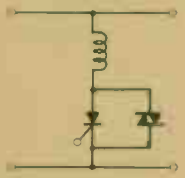
Single Phase Line Surge



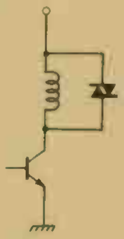
Three Phase Line Surge



Transformer Inductive Surge by Primary Switch Off



Solenoid Inductive Surge by Thyristor Switching

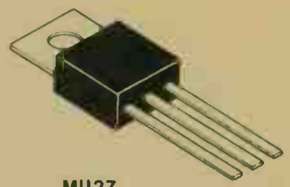


Solenoid Inductive Surge by Transistor Switching

SPECIAL PURPOSE DEVICES (SCR) (TRIAC)

276-1000
276-1020
276-1067

THYRISTORS



MU27

GENERAL DESCRIPTION

Thyristors and their trigger devices can take numerous forms, but they share these characteristics:

- They are "open circuits," capable of withstanding rated voltage until triggered.
- They become low-impedance current paths when triggered, and remain so, even after the trigger source is removed, until current through that path stops, or is reduced below a minimum "holding" level.

SCRs

Silicon Controlled Rectifiers (SCRs) are Thyristors intended to switch load currents in one direction only, making them useful for DC and half-wave AC applications as well as full-wave applications in which bidirectional current is routed in one direction through the SCR via a bridge rectifier.

TRIACs

Triacs are bidirectional Thyristors, in which a single trigger source turns the device on for load current in either direction. Because they do not require a bridge rectifier in order to handle full-wave AC, Triacs are useful in AC power applications that require full source power control capability to be applied to the load.

Catalog Number	Imax A	Vmax V	I_{GT} (max) mA	V_{GT} (max) V	Case Style
276-1067	6	200	25	1.5	MU27
276-1020	6	400	25	1.5	MU27

Catalog Number	Imax A	Vmax V	I_{GT} (max) mA	V_{GT} (max) V	Case Style
276-1000	6	400	50	2.5	MU27

OPTOELECTRONIC INDEX BY FUNCTION

FUNCTION	CATALOG NO.	PAGE NO.
DISPLAY	276-053	18
	276-064	17
	276-075	17
	276-081	15
DRIVER	276-134	16
EMITTER	176-142	20
	276-143	14
LED (BLINKING)	276-030	15
	276-036	15
LED INDICATORS (CHART)	276-018	13
	276-021	13
	276-022	13
	276-025	13
	276-026	13
	276-033	13
	276-037	13
	276-041	13
	276-065	13
	276-066A	13
	276-068	13
	276-069	13
	276-088	13
LED (TRI-COLOR)	276-035	19
PHOTOCELL	276-116	18
PHOTOTRANSISTOR	276-145	19
SOLAR CELL	276-124	20

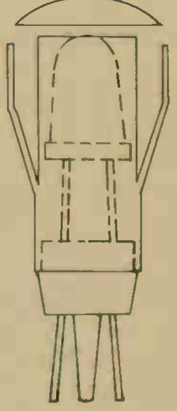


FIGURE 10
Super high brightness LED with holder

LED INDICATORS

Catalog Number	Direct Commercial Equivalent	Peak Wave Length nM	Color	Forward Voltage V_F (V)	Reverse Voltage V_R (V)	Max DC Forward Current I_F (MA)	Max Pwr Diss P_D (MW)	Fig. No.
276-018	PR5534S	700	RED	2.5	4	100	75	4
276-021	SLP-236B	565	YELLOW	2.8	3	30	70	5
276-022	SLP-236B	565	GREEN	2.8	3	30	70	5
276-025	R9-56	—	RED/GREEN	2.0	3.0	10	—	7
276-026	—	650	RED	—	3	50	100	2
276-033	TLR-147	700	RED	2.1	4	35	100	1
276-037	SLP-235B	565	GREEN	2.8	3	30	70	4
276-041	—	700	RED	1.75	3	70	140	3
276-065	369HHD	697	RED	1.8	5	20	75	8
276-066A	SLA-591LT3	660	RED	2.5 (@20 MA)	4	50	100	9
276-068	—	700	RED	1.9	—	30	—	6
276-069	—	560	GREEN	2.1	—	30	—	6
276-088	SLP-888A	660	RED	2.2 (@2 MA)	3	20	70	10

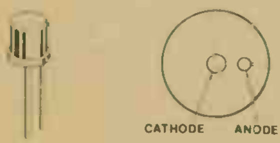


FIGURE 1
Miniature LED with diffused lens. This LED is compatible with most TTL and transistor circuits. It features a Fresnel lens design.

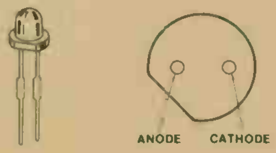


FIGURE 2
This LED features a frosted diffused lens in a plastic encapsulant. When the device is on, it appears as a large, soft light source, making it ideally suited for front panel applications.

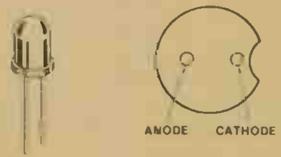


FIGURE 3
This device is a jumbo LED with a diffused lens. It can be used in applications such as pilot and indicator lamps.

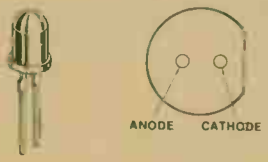


FIGURE 4
Subminiature LED with diffused lens. This device has solid state reliability and is compatible with most TTL and transistor circuits.

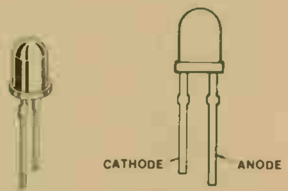


FIGURE 5
This is a frame type solid state LED with a diffused lens.

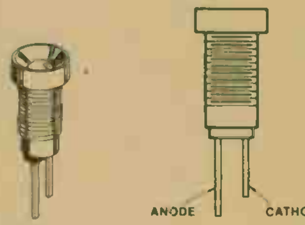


FIGURE 6
This is a subminiature LED indicator with polished chrome reflective holder.

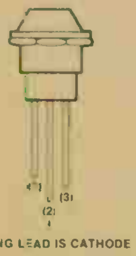


FIGURE 7
This is a three terminal LED. The light color radiates "red" when terminals 2 and 3 are used. Green light radiates when terminals 1 and 2 are used.

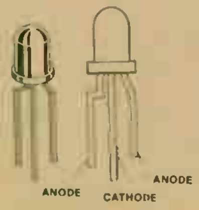


FIGURE 8
This is a jumbo red LED. It consists of two LED elements connected cathode to cathode in a 10mm diameter housing.

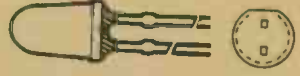


FIGURE 9
This is a high-brightness red LED. It is many times brighter than ordinary LEDs, yet still runs cool.

TIL906-1
276-143

P-N GALLIUM ALUMINUM ARSENIDE INFRARED- EMITTING DIODE

GENERAL DESCRIPTION

This is a P-N Gallium Aluminum Arsenide Infrared-Emitting diode designed to emit near infrared radiation when forward biased. Its output is spectrally compatible with silicon sensors and has a high power output with a 20° beam angle.

ABSOLUTE MAXIMUM RATINGS

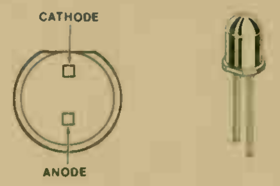
Forward Voltage (Static) (VF) .... 1.75 V
Reverse Voltage (VA) .... 3 V
Continuous Forward Current at (Or Below)
25°C Free-Air Temperature .... 100 mA
Peak Forward Current (See Note 1) .... 2 A
Reverse Current (V_R = 3 V) .... 100 μA
Radiant Power Output (P_O) (IF = 20 mA) .... 1.5 MW
Emission Beam Angle Between
Half-Intensity Points .... 20°
Wave Length at Peak Emission (IF = 20 mA) .... 880 nM
Operating Temperature Range .... −40°C To 80°C
Storage Temperature Range .... −40°C to 100°C

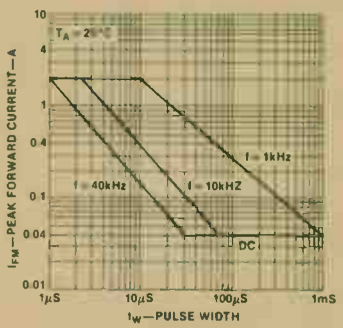
NOTE: 1. This value applies for $t_w \leq 10\ \mu s$, $f \leq 1$ kHz. See Figure 1.

FEATURES

- High power output With a 20° beam angle
- Output spectrally compatible with silicon sensors

PIN CONNECTION

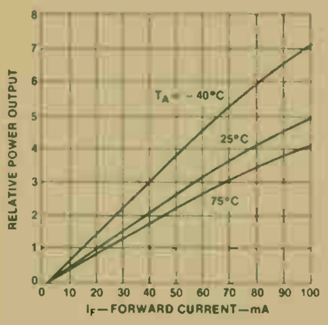




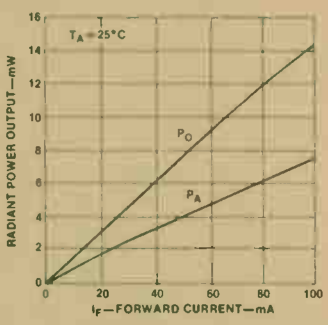
Peak Forward Current
vs
Pulse Width

Figure 1

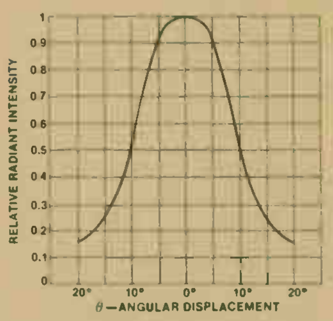
TYPICAL CHARACTERISTICS



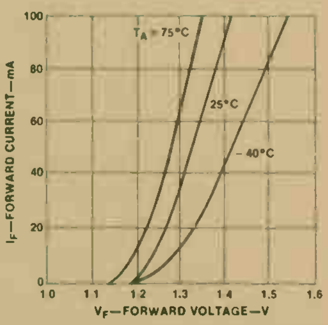
Relative Power Output
vs
Forward Current



Radiant Power Output
vs
Forward Current



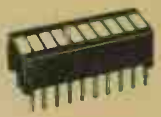
Relative Radiant Intensity
vs
Angular Displacement



Forward Conduction
Characteristics

B1001R
276-081

HIGH EFFICIENCY RED BAR GRAPH DISPLAY



GENERAL DESCRIPTION

The B1001R is a 10 segment bar graph display with separate anodes and cathodes for each light segment. The packages are end stackable.

FEATURES

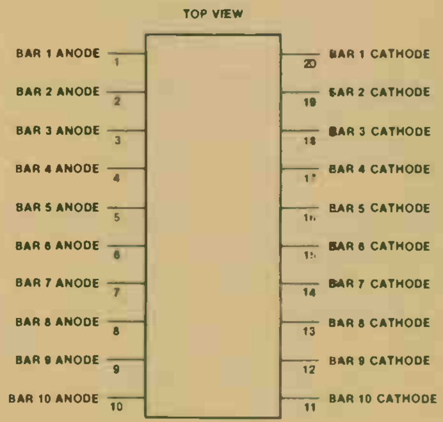
- Large segments, closely spaced
- End stackable
- Fast switching, excellent for multiplexing
- Low power consumption
- Directly compatible with ICs
- Wide viewing angle

ABSOLUTE MAXIMUM RATINGS

(25°C Free Air Temperature Unless Otherwise Specified)

Power dissipation 100mW
Continuous forward current
Total . . . . 300 mA
Per segment . . . . 30 mA
Reverse voltage
Per segment . . . . 5.0 V
Storage and operating temperature . . . . – 30 to + 80°C

PIN CONNECTION



ELECTRO-OPTICAL CHARACTERISTICS

Forward Voltage . . . . 1.6 V
Peak emission wavelength. 655nm

F336GD
276-030
F336HD
276-036

BLINKING LED

GENERAL DESCRIPTION

The F336GD is a solid state LED with a green diffused plastic lens. The F336HD is a solid state LED with a red diffused plastic lens. A built-in IC flashes the LEDs on/off and can be driven directly by standard TTL and CMOS circuits, eliminating the need for external switching circuitry.

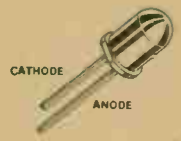
FEATURES

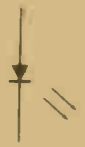
- Built-in IC chip, flashes LED on and off to attract attention
- Pulse rate 1.0HZ
- T1 3/4 size
- Larger full flood radiating area
- 1-inch leads
- 1.2mcd @ V_F = 3.0V
- IC compatible

ABSOLUTE MAXIMUM RATINGS

Operating Voltage . . . . .5 V
Peak Inverse Voltage . . . . 0.4 V
Operating Temperature . . . . .0°C to 70°C
Storage Temperature . . . . – 20°C to + 85°C
Lead Soldering Temperature (1/16 inch from case) . . . . 5 sec. @ 260°C

PIN CONNECTION



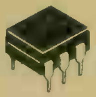


ELECTRO-OPTICAL CHARACTERISTICS

Luminous Intensity. . . . . .1.2 mcd
Emission Peak Wavelength (F336GD) 565nm
(F336HD) 597nm
Spectral Line Halfwidth (F336GD) 30nm
(F336HD). 90nm
Peak Current (50% Duty Cycle) . . . . 3.5 MA
Pulse Rate . . . . 2.0 HZ

MOC3010
276-134

OPTOCOUPLER TRIAC DRIVER



GENERAL DESCRIPTION

This device consists of a gallium-arsenide infrared emitting diode. optically coupled to a silicon bilateral switch and is designed for applications requiring isolated triac triggering. low-current isolated ac switching. high electrical isolation (to 7500 V peak). high detector standoff voltage. small size. and low cost.

INFRARED EMITTING DIODE MAXIMUM RATINGS

Reverse Voltage	3.0 volts
Forward Current—Continuous	50 mA
Total Power Dissipation @ TA = 25°C	100 mW

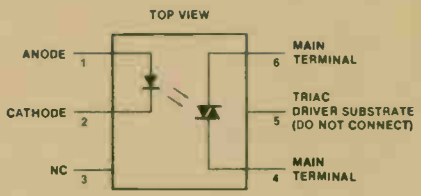
OUTPUT DRIVER MAXIMUM RATINGS

Off-State Output Terminal Voltage	250 Volts
On-State RMS Current TA = 25°C	100 mA
(Full Cycle. 50 to 60 Hz TA = 70°C)	50 mA
Peak Nonrepetive Surge Current	1.2 A
(PW = 10ms. DC = 10%)	
Total Power Dissipation @ TA = 25°C	300 mW
Derate above 25°C	4.0 mW/°C

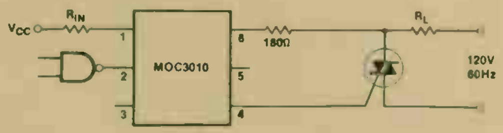
TOTAL DEVICE MAXIMUM RATINGS

Isolation Surge Voltage (1s)	7500 Vac
(Peak ac Voltage. 60 Hz. 5 Second Duration)	
Total Power Dissipation	330 mW
Junction Temperature Range	−40 to +100°C
Ambient Operating Temperature Range	−40 to +70°C
Storage Temperature Range	−40 to +150°C
Soldering Temperature (10s)	260°C

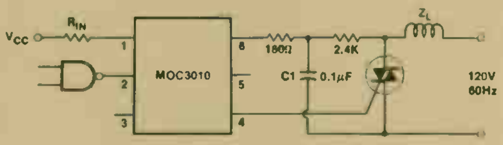
PIN CONNECTION



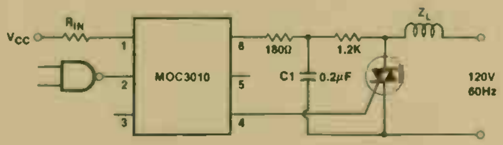
APPLICATIONS



Resistive Load

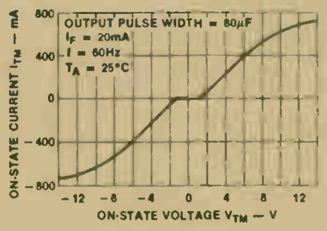


Inductive Load with Sensitive Gate Triac
($I_{GT} < 15mA$)

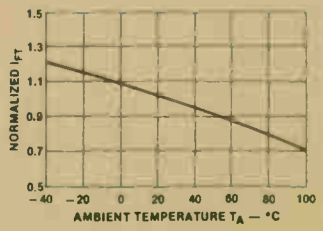


Inductive Load with Non-Sensitive Gate Triac
($15mA < I_{GT} < 50mA$)

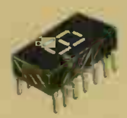
TYPICAL CHARACTERISTICS



On-State Current vs
On-State Voltage



Trigger Current
vs Temperature



COMMON CATHODE DISPLAY

MAN74
276-075

GENERAL DESCRIPTION

This is a red .3 inch common cathode RHDP Display device with a brightness or luminous intensity (Per Seq. MIN) of 125 μcd @ 10mA.

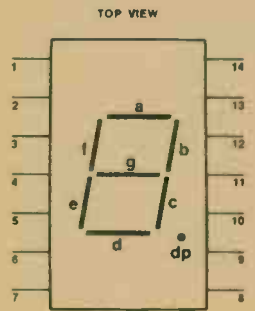
APPLICATIONS

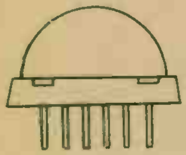
- Instruments
- Test Equipment
- Office Machines
- Computers
- Automobiles
- Clocks Radios
- Communication Equipment
- Calculators
- CB Radios

ABSOLUTE MAXIMUM RATINGS

Forward Voltage	2 V
Forward Current	20 mA
Power (P_D)	700 mW
Wave Length	660 nM
Brightness/Luminous Intensity @ 10mA	125 μcd

PIN CONNECTION





BIG HI-EFFICIENCY RED LED

EL-811HR
276-064

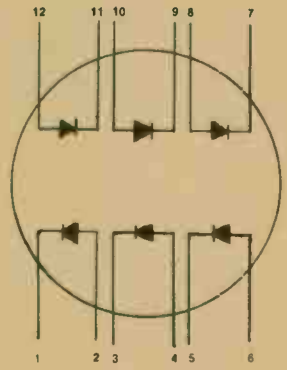
GENERAL DESCRIPTION

The 276-064 is a 0.79″ diameter hi-efficiency Red LED. This device is ideal for a variety of applications where a large bright source is required.

ABSOLUTE MAXIMUM RATINGS

Reverse Voltage	5 V
Reverse Current (Vr = 5V)	10μA
Operating Temperature Range	−40°C To 85°C
Storage Temperature Range	−40°C To 100°C
Lead Soldering Temperature [1.6mm (0.063 inch) From Body]	260°C For 5 Seconds
Spectral Line Half-Width (Aλ)	45mm
Power Dissipation (Pd)	100mW
Peak Forward Current (duty 1/10, 1KHz) If (Peak)	160mA
Recommend Operating Current If (Rec)	20mA
Average Luminous Intensity 1.2 (If = 10mA) Iv	25μcd
Luminous Intensity Matching Ratio Iv-m	2:1
Forward Voltage (If = 20mA) Vf	2.8 V

PIN CONNECTION

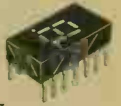


PIN	FUNCTION
1	CATHODE
2	ANODE
3	CATHODE
4	ANODE
5	CATHODE
6	ANODE
7	CATHODE
8	ANODE
9	CATHODE
10	ANODE
11	CATHODE
12	ANODE

FEATURES

- 0.79″ (20.0mm) big LED.
- Graphic stacking allowable.
- Suitable for multiplex operation.
- High luminous intensity.
- Solid state reliability.

276-053 0.3″ SOLID STATE SEVEN SEGMENT DISPLAY



GENERAL DESCRIPTION

The 276-053 is a common anode LED numeric display. The large 0.3″ high character size generates a bright, continuously uniform 7 segment display. Designed for viewing distances of up to 10 feet, this single digit display has been human engineered to provide a high contrast ratio and wide viewing angle.

FEATURES

- Fits 14 pin DIP socket
- Excellent character appearance—continuous uniform segments; wide viewing angle; high contrast
- IC compatible—1.6 V per segment
- Standard 0.3″ DIP lead configuration; PC board or standard socket mountable
- Both left and right decimal points

APPLICATIONS

- Electronic calculators
- TVs
- Radios
- Frequency counters
- Digital clocks

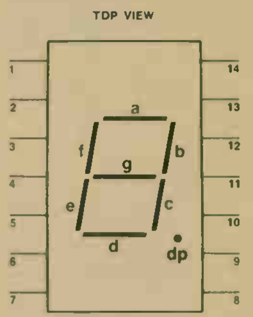
RADIANT CHARACTERISTICS (IF=20mA) T_A=25°C

Luminous Intensity	250 mcd
Wavelength (Peak)	655 nM

ABSOLUTE MAXIMUM RATINGS

Power Dissipation T_A=25°C	400 mW
Average Forward Current/Segment or Decimal Pt. T_A =25°C	25 mA
Peak Forward Current/Segment or Decimal Pt. T_A=12°C (Pulse Duration 500μs)	150 mA
Reverse Voltage per Segment or Decimal Pt.	6 V
Operating Temperature Range	−20 to +85°C
Storage Temperature Range	−20 to +85°C
Max Solder Temperature 1/16″ Below Seating Plane (t < 5 sec.)	230°C

PIN CONNECTION



COMMON ANODE

PIN	FUNCTION
1	CATHODE a
2	CATHODE f
3	ANODE
4	NO PIN
5	NO PIN
6	CATHODE dp
7	CATHODE e
8	CATHODE d
9	NO CONNECTION
10	CATHODE c
11	CATHODE g
12	NO PIN
13	CATHODE b
14	ANODE

ALTERNATE CONNECTION

PIN	FUNCTION
1	NO PIN
2	ANODE
3	CATHODE-f
4	CATHODE-g
5	CATHODE-e
6	CATHODE-d
7	NO PIN
8	NO PIN
9	ANODE
10	CATHODE-dp
11	CATHODE-c
12	CATHODE-b
13	CATHODE-a
14	NO PIN

276-116 CADMIUM SULPHIDE PHOTOCELL

GENERAL DESCRIPTION

A cadmium sulphide photo cell is a light variable resistor which is most sensitive in the green to yellow portion of the light spectrum. With it you can use light to control many electronic devices. Max. resistance .5 meg., min. resistance 100 ohms, max. voltage 170 V, max. wattage .2 watts, rugged epoxy case.

APPLICATIONS

- Night light
- Light control
- Burglar alarm
- Relay

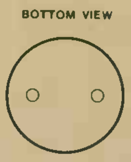
SPECIFICATIONS

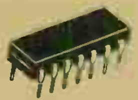
Shape	Round
Sensitive Area	.07 sq. in.
Weight	1.56 gms.
Resistance at 1 Ftc (2870°K)	1.7k Ohms . 40%
Typical Resistance 100 Ftc (2870°K)	100 Ohms
Resistance Dark Minimum (1 Minute)	0.5 Megohms

ABSOLUTE MAXIMUM RATINGS

Max. Applied Voltage (ac or dc)	170 V peak
Max. Power Dissipation at 25°C	.2 watts
Power Derating	Linearly to 0 @ 75°C
Operating Temp. Range	−40 to +75°C

CONNECTIONS





TRI-COLOR LIGHT EMITTING DIODE

XC-5491
276-035

GENERAL DESCRIPTION

The XC-5491 tri-state LED provides red, green, and yellow emission in the same package. This LED is a popular .200 diameter, two-leaded package containing a red and green LED chip in inverse parallel. By reversing the polarity of the applied current, the LED will emit red or green light while an AC voltage results in yellow light. The chips used in the XC-5491 are brightness matched so that the light output is uniform. This eliminates the necessity for the special drive circuits previously required with tri-state lamps.

These lamps provide the designer with the capability of efficiently displaying three functions with one indicator. This reduces the number of front panel indicators and simplifies design.

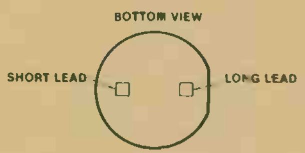
FEATURES

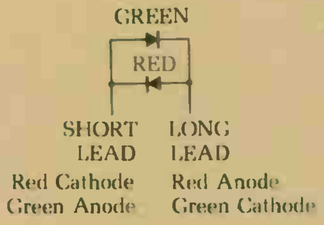
- 3 States—red, green, and yellow
- Equal brightness in all three colors
- Popular T 1 - size package
- Wire wrappable leads

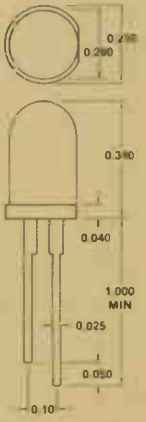
ABSOLUTE MAXIMUM RATINGS

Forward Current	25 mA
Peak Reverse Voltage	5V
Power Dissipation	100 mW
Operating Temperature Range	−55 to +85°C
Lead Solder Temperature	260°C

PIN CONNECTION







INFRARED PHOTOTRANSISTOR

TIL414
276-145

GENERAL DESCRIPTION

The TIL414 is an NPN silicon phototransistor in A T-1 3/4 style case. It provides high speed and high photosensitivity, suitable for IR switching applications.

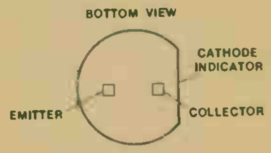
ABSOLUTE MAXIMUM RATINGS

Collector-Emitter Voltage	50 V
Emitter-Collector Voltage	7 V
Power Dissipation	50 mW
Operating Temperature	−40° to +100°C

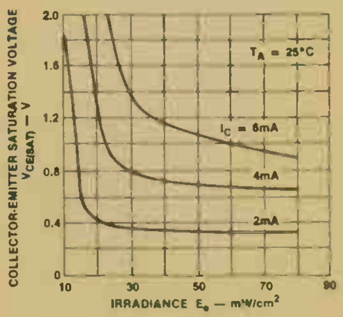
ELECTRICAL CHARACTERISTICS (Typical)

Dark Current (V_{CE} = 30 V)	25 nA
Light Current (V_{CE} = 5 V●E_e = 20mW/cm²)	7 mA
Collector-Emitter Saturation	0.4 V
Rise Time	8 μs
Fall Time	6 μs

PIN CONNECTION



TYPICAL CHARACTERISTICS



Collector-Emitter Saturation Voltage vs Irradiance

276-142 INFRARED EMITTER AND DETECTOR

GENERAL DESCRIPTION

The 276-142 is a pair consisting of an infrared photodetector and an infrared-emitting diode. The diode is capable of emitting radiant energy in the infrared region of the spectrum.

FEATURES

- Spectrally and mechanically matched
- High power efficiency . . . typically 5 percent at 25°C

ABSOLUTE MAXIMUM RATINGS

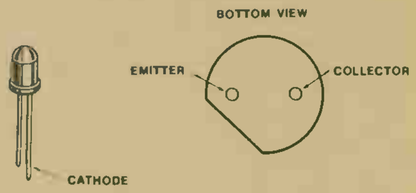
Photodetector

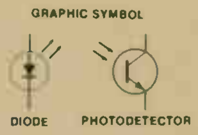
Collector-Emitter Voltage	20V
Collector Current	25mA
Continuous Device Dissipation at (or below) 25°C Free-Air Temperature	50mW
Operating Free-Air Temperature Range	−40 to +80°C
Storage Temperature Range	−40 to +85°C
Lead Temperature 1/16 Inch from Case for 5 Seconds	240°C

Infrared-Emitting Diode

Reverse Voltage	2V
Continuous Forward Current	40mA
Radiant Power Output	0.5mW
Wavelength at Peak Emission	915mm

PIN CONNECTION





276-124 2.5×5cm SILICON SOLAR CELL

GENERAL DESCRIPTION

A solar cell is a silicon semiconductor device which converts light energy directly to electricity. A typical 2.5×5cm cell will produce 0.42 volt and up to .18 amp of usable current. The power generated is affected by the load resistance (circuit powered by cell) strength of sunlight and temperature.

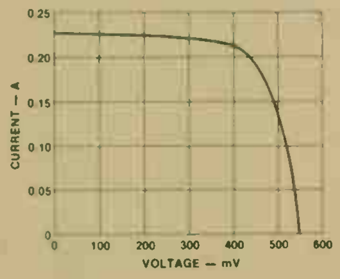
Be extremely careful when soldering leads. Use only a very fine wire (#26 or thinner) and use a small soldering iron (less than 50 watts). Solar cells may be connected in series to produce more voltage and in parallel for more current.

ABSOLUTE MAXIMUM RATINGS

Voltage (Open Circuit):	0.55V
Current (short circuit):	0.2A

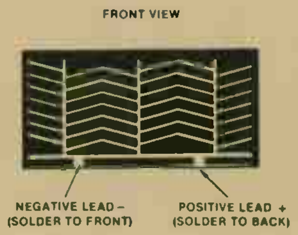
(Test conditions: Full sunlight at noon on a clear day at 25°C (76°F))

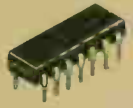
TYPICAL CHARACTERISTICS



Current vs Voltage

CONNECTIONS





QUAD TWO-INPUT NOR GATE

4001
276-2401

GENERAL DESCRIPTION

The 4001 quad 2-Input NOR gate is constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. These complementary MOS logic gates find primary use where low power dissipation and/or high noise immunity is desired.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in}$ or $V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

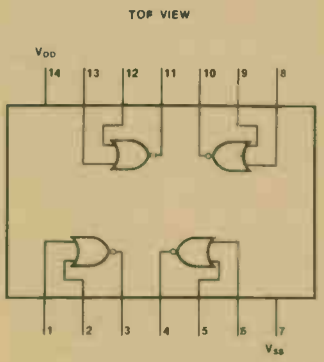
FEATURES

- Quiescent current = 0.5 nA typ/pkg @ 5 Vdc
- Noise immunity = 45% of V_{DD} typical
- Diode protection on all inputs
- Supply voltage range = 3.0 Vdc to 16 Vdc
- Single supply operation—positive or negative
- High fanout >50
- Input impedance = 10^{12} ohms typical
- Logic swing independent of fanout

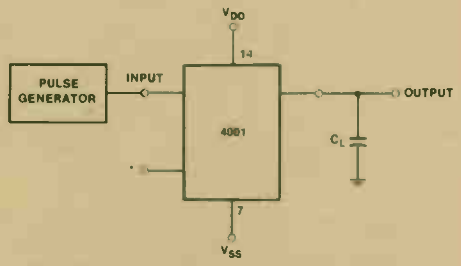
ABSOLUTE MAXIMUM RATINGS
(Voltages referenced to V_{SS})

DC Supply Voltage	−0.5 to +16 Vdc
Input Voltage All Inputs	−0.5 to V_{DD} +0.5 Vdc
DC Current Drain per Pin	10 mAdc
Operating Temperature Range	−40 to +85°C
Storage Temperature Range	−65 to +150°C

PIN CONNECTION

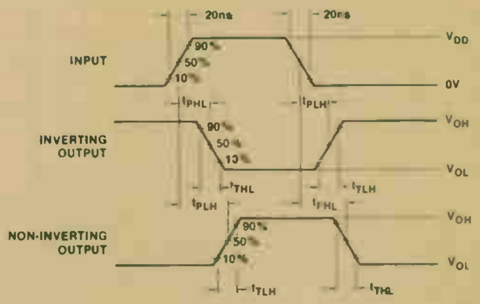


SWITCH TIME TEST CIRCUIT

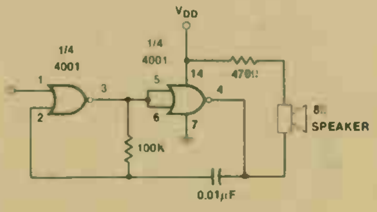


*All unused inputs of OR, NOR gates must be connected to V_{SS}.

SYNC TIMING WAVEFORMS

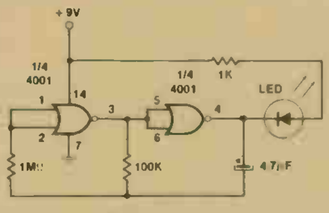


TYPICAL APPLICATIONS



Tone frequency is about 1kHz

Gated Tone Source



LED flashes 1-2 times/second

LED Flasher

4011
276-2411

QUAD TWO-INPUT NAND GATE

GENERAL DESCRIPTION

The 4011 is constructed with P and N channel enhancement mode devices in a single monolithic structure (Complementary MOS). Their primary use is where low power dissipation and/or high noise immunity is desired.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

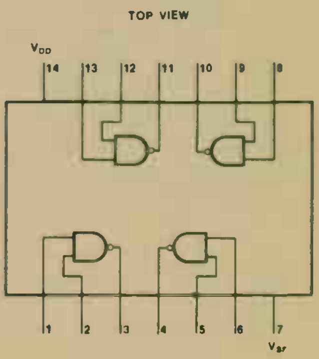
FEATURES

- Quiescent current = 0.5 nA typ/pkg @ 5 Vdc
- Noise immunity = 45% of V_{DD} typical
- Supply voltage range = 3.0 Vdc to 16 Vdc
- Double diode protection on all inputs

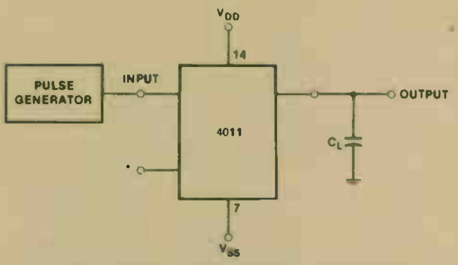
ABSOLUTE MAXIMUM RATINGS
(Voltages referenced to V_{SS})

DC Supply	−0.5 to +16 Vdc
Input voltage, All Inputs	−0.5 to V_{DD} +0.5 Vdc
DC Current Drain per Pin	10 mAdc
Operating Temperature Range	−40 to +85°C
Storage Temperature Range	−65 to +150°C

PIN CONNECTION

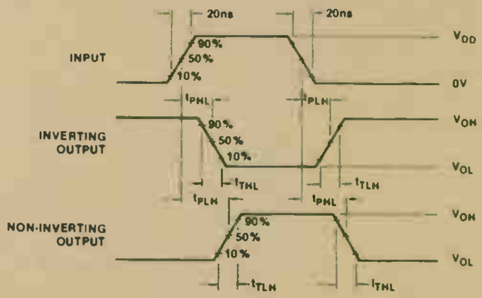


SWITCH TIME TEST CIRCUIT

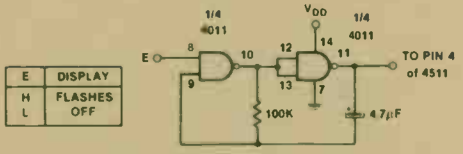


*All unused inputs of AND, NAND gates must be connected to V_{DD}.

SYNC TIMING WAVEFORMS



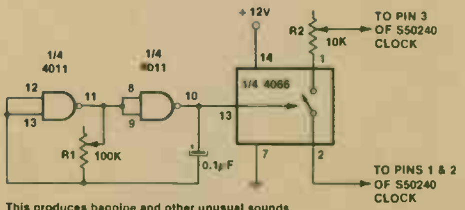
TYPICAL APPLICATIONS



E	DISPLAY
H	FLASHES
L	OFF

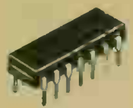
Display flashes once per second when E is high

Display Flasher



This produces bagpipe and other unusual sounds.
Adjust R1 to vary interruption rate.

Special Effects



DUAL TYPE D FLIP-FLOP

4013
276-2413

GENERAL DESCRIPTION

The 4013 dual type D flip-flop is constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. Each flip-flop has independent Data, (D). Direct Set, (S). Direct Reset, (R). and Clock (C) inputs and complementary outputs (Q and $\bar{Q}$). These devices may be used as shift register elements or as type T flip-flops for counter and toggle applications.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

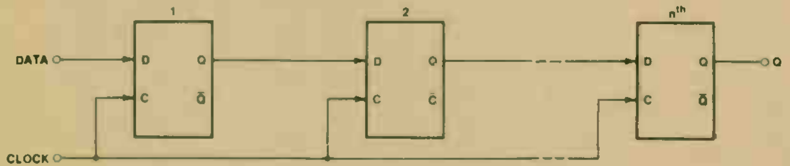
FEATURES

- Static operation
- Quiescent current = 2.0 nA/package typical @ 5 Vdc
- Noise immunity = 45% of V_{DD} typical
- Diode protection on all inputs
- Supply voltage range = 3.0 Vdc to 16 Vdc
- Single supply operation
- Toggle rate = 4 MHz typical @ 5 Vdc
- Logic edge-clocked flip-flop design—logic state is retained indefinitely with clock level either high or low; information is transferred to the output only on the positive-going edge of the clock pulse.
- Capable of driving two-low-power TTL loads, one low-power schottky TTL load or two HTL loads over the rated temperature range.

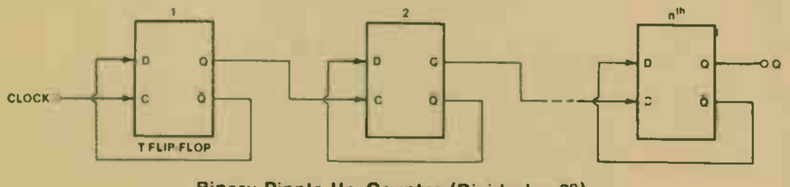
ABSOLUTE MAXIMUM RATINGS
(Voltages referenced to V_{SS})

DC Supply Voltage	−0.5 to +16 Vdc
Input Voltage. All Inputs	−0.5 to V_{DD} + 0.5 Vdc
DC Current Drain per Pin	10 mAdc
Operating Temperature Range	−40 to +85°C
Storage Temperature Range	−65 to −150°C

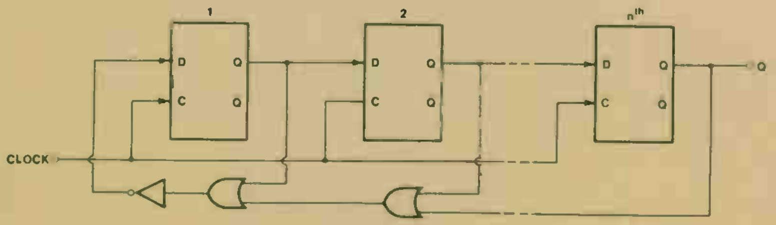
TYPICAL APPLICATIONS



n-Stage Shift Register

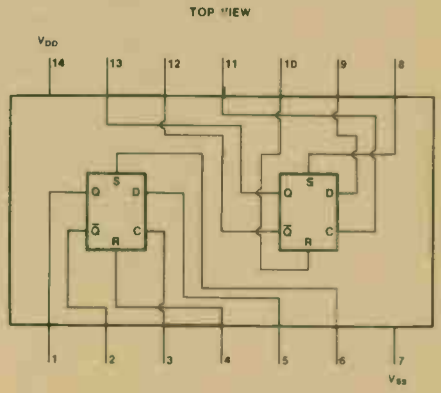


Binary Ripple Up-Counter (Divide-by-2^n)



Modified Ring Counter (Divide-by-(n+1))

PIN CONNECTION

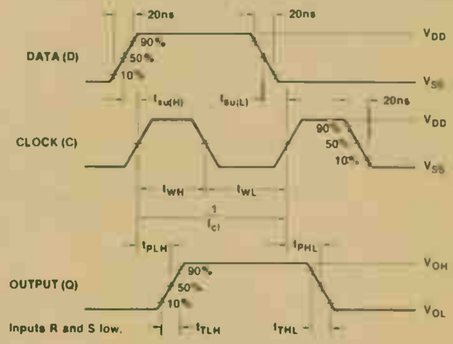


TRUTH TABLE

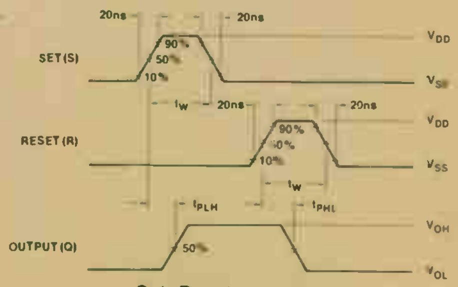
INPUTS				OUTPUTS	
Clock†	Data	Reset	Set	Q	$\bar{Q}$
—	L	L	L	L	H
—	H	L	L	H	L
—	X	L	L	No Change	
X	X	H	L	L	H
X	X	L	H	H	L
X	X	H	H	H	H

X = Don't Care
L = Low Level
H = High Level
† = Level Change

SYNC TIMING WAVEFORMS



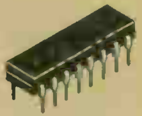
Data, Clock, and Output



Set, Reset, and Output

4017
276-2417

DECADE COUNTER/DIVIDER



GENERAL DESCRIPTION

The 4017 is a five-stage Johnson decade counter with built-in code converter. High-speed operation and spike-free outputs are obtained by use of a Johnson decade counter design. The ten decoded outputs are normally low, and go high only at their appropriate decimal time period. The output changes occur on the positive-going edge of the clock pulse. This part can be used in frequency division applications as well as decade counter or decimal decode display applications.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}.

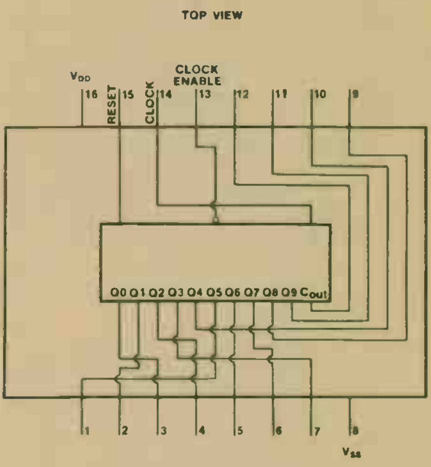
FEATURES

- Fully static operation
- DC clock input circuit allows slow rise times
- Carry out output for cascading
- 12 MHz (typical) operation @ V_{DD} = 10 Vdc
- Quiescent current = 5.0 nA/package typical @ 5 Vdc
- Supply voltage range = 3.0 Vdc to 16 Vdc
- Capable of driving two low-power TTL loads, one low-power schottky TTL load or two HTL loads over the rated temperature range

ABSOLUTE MAXIMUM RATINGS (Voltages referenced to V_{SS})

DC Supply Voltage	−0.5 to +16 Vdc
Input Voltage, All Inputs	−0.5 to V_{DD} +0.5 Vdc
DC Current Drain per Pin	10 mAdc
Operating Temperature Range	−40 to +85°C
Storage Temperature Range	−65 to +150°C

PIN CONNECTION

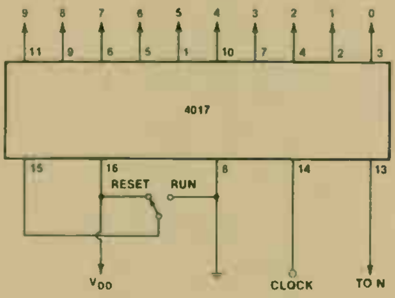


TRUTH TABLE (Positive Logic)

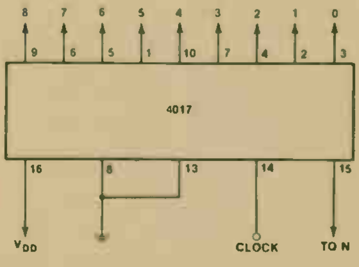
Clock	Clock Enable	Reset	Decode Output = n
L	X	L	n
X	H	L	n
X	X	H	QL
↑	L	L	n + 1
↓	X	L	n
X	↑	L	n
1	↓	L	n + 1

X = Don't Care If n <5 Carry = "H",
Otherwise = "L"
L = Low Level   H = High Level

TYPICAL APPLICATIONS

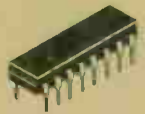


Count to N and Halt



For N = 9, ground pin 15

Count to N and Recycle



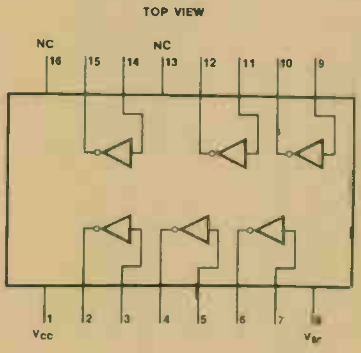
INVERTING HEX BUFFER

4049
276-2449

GENERAL DESCRIPTION

The 4049 hex inverter/buffer is constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. These complementary MOS devices find primary use where low power dissipation and/or high noise immunity is desired. These devices provide logic-level conversion using only one supply voltage, V_{CC}. The input-signal high level (V_{IH}) can exceed the V_{CC} supply voltage for logic-level conversions. Two TTL/DTL loads can be driven when the devices are used as CMOS-to-TTL/DTL converters (V_{CC} = 5.0 V, $V_{OL} \leq$ 0.4 V, $I_{OL} \geq$ 3.2 mA). Note that pin 16 is not connected internally on this device; consequently connections to this terminal will not affect circuit operation.

PIN CONNECTIONS



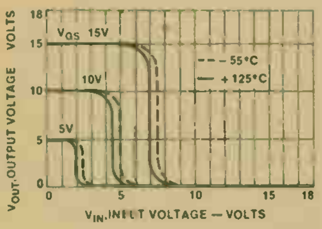
FEATURES

- High source and sink currents
- High-to-low level converter
- Quiescent current = 2.0 nA/package typical @ 5 Vdc
- Supply voltage range = 3.0 Vdc to 16 Vdc

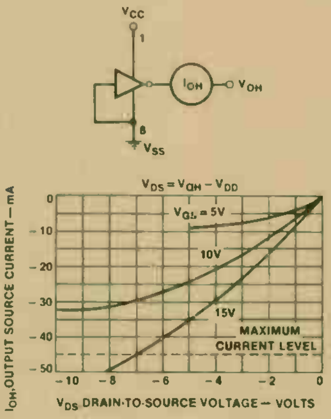
ABSOLUTE MAXIMUM RATINGS
(Voltages referenced to V_{SS}, Pin 8)

DC Supply Voltage	−0.5 to +16 Vdc
Input Voltage, All Inputs	−0.5 to V_{DD} +0.5 Vdc
DC Current Drain per Input Pin	10 mAdc
DC Current Drain per Output Pin	45 mAdc
Operating Temperature Range	−40 to +85°C
Storage Temperature Range	−65 to +150°C

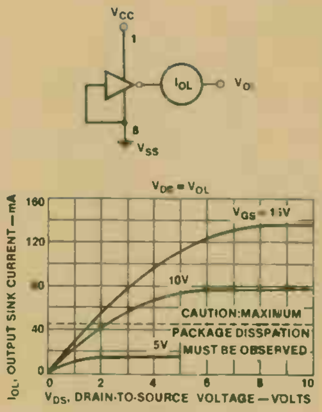
TYPICAL CHARACTERISTICS



Output Voltage
vs Input Voltage

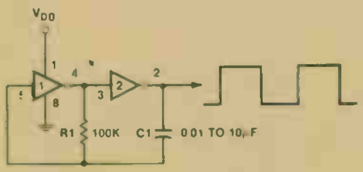


Output Source Current vs
Drain-To-Source Voltage



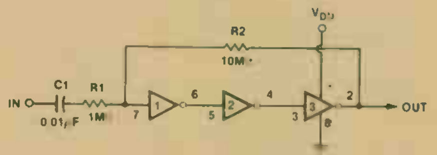
Output Sink Current vs
Drain-To-Source Voltage

TYPICAL APPLICATIONS



1,2 = 1/3 4049
Pulse Rate ≈ 1/1.4R1C1

Clock Pulse Generator

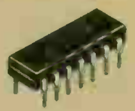


1,2,3 = 1/2 4049
Note that the inverters are used in a LINEAR mode
Gain ≈ R2/R1

Linear IOX Amplifier

4066
276-2466

QUAD BILATERAL SWITCH



GENERAL DESCRIPTION

The 4066 consists of four independent switches capable of controlling either digital or analog signals. This Quad Bilateral Switch is useful in signal gating, chopper, modulator, demodulator, and CMOS logic implementation.

This device contains circuitry to protect the inputs against damage due to high static voltages or electrical fields; however, it is advised that normal precautions be taken to avoid applications of any voltage higher than maximum rated voltages to this high impedance circuit.

For proper operation it is recommended that V_{IN} and V_{OUT} be constrained to the range $V_{SS} \leq (V_{IN} \text{ or } V_{OUT}) \leq V_{DD}$.

Unused inputs must always be tied to the appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

FEATURES

- Wide supply voltage range—3V to 15V
- High noise immunity—0.45 V_{DD} typ
- Wide range of digital and analog switching—±7.5 V_{PEAK}
- "ON" resistance for 15V operation—80Ω typ
- Matched "ON" resistance over 15V signal input—$\Delta R_{ON} = 5\Omega$ typ
- "ON" resistance flat over peak-to-peak signal range
- High "ON"/"OFF" output voltage ratio—65 dB typ
- High degree of linearity—<0.4% distortion typ
- Extremely low "OFF" switch leakage—0.1 nA typ
- Extremely high control input impedance—$10^{12}\Omega$ typ
- Low crosstalk between switches—−50 dB typ
- Frequency response, switch "ON"—40 MHz typ

APPLICATIONS

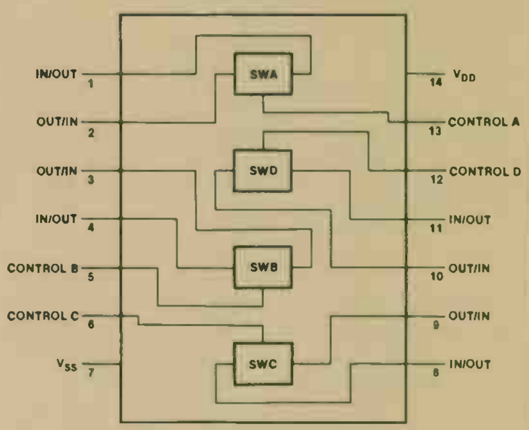
- Analog signal switching/multiplexing
  - Signal gating
  - Squelch control
  - Chopper
  - Modulator/Demodulator
  - Commutating switch
- Digital signal switching/multiplexing
- CMOS logic implementation
- Analog-to-digital/digital-to-analog conversion
- Digital control of frequency, impedance, phase, and analog-signal gain

ABSOLUTE MAXIMUM RATINGS

Supply Voltage	−0.5V to +18V
Input Voltage	−0.5 to V_{DD} +0.5V
Package Dissipation	500 mW
Operating Temperature Range	−40 to +85°C
Storage Temperature Range	−65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

PIN CONNECTION

TOP VIEW



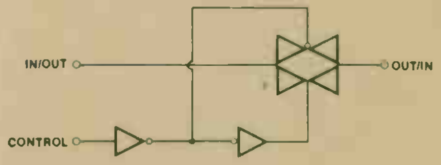
TRUTH TABLES

CONTROL	SWITCH
0	OFF
1	ON

$V_{CONTROL}$	V_{IN} TO V_{OUT} RESISTANCE
V_{SS}	$>10^9$ ohms typical
V_{DD}	3×10^2 ohms typical

LOGIC DIAGRAM

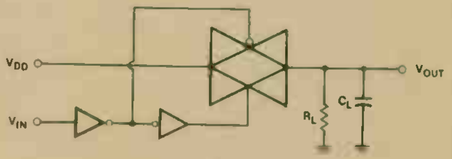
1/4 OF 4066



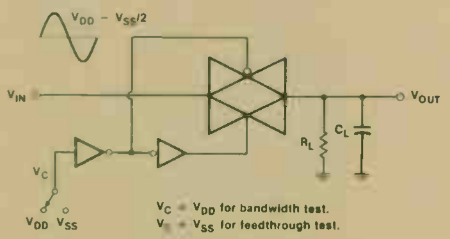
LOGIC DIAGRAM RESTRICTIONS

$V_{SS} \leq V_{IN} \leq V_{DD}$
$V_{SS} \leq V_{OUT} \leq V_{DD}$

TYPICAL APPLICATIONS

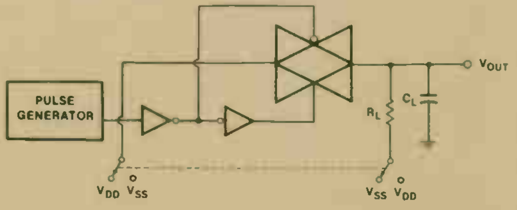


Input Voltage



$V_C = V_{DD}$ for bandwidth test.
$V_C = V_{SS}$ for feedthrough test.

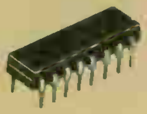
Bandwidth and Feedthrough Attenuation



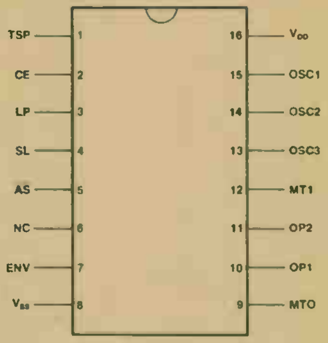
Propagation Delay Time, Control to Output

MELODY GENERATOR

UM3482
276-1797



PIN CONNECTION



GENERAL DESCRIPTION

The UM3482A is a mask-ROM-programmed multi-instrument melody generator, implemented in the CMOS technology. It is designed to play the melody according to the previously programmed information and is programmed with 12 songs with 3 instrument sounds, the piano, the organ and the mandolin. The UM3482A will play the following songs: AMERICAN PATROL, RABBITS, OH, MY DARLING CLEMENTINE, BUTTERFLY, LONDON BRIDGE IS FALLING DOWN, ROW, ROW, ROW YOUR BOAT, ARE YOU SLEEPING, HAPPY BIRTHDAY, JOY SYMPHONY, HOME SWEET HOME, WIEGENLIED, and MELODY ON PURPLE BAMBOO.

The device also includes a pre-amplifier which provides simple interface to the driver circuit.

FEATURES

- Powered by a 1.5V battery
- Low stand-by current
- 512 notes memory, up to 16 songs
- Play all the songs repeatedly or auto stop
- Play one song only, repeatedly or auto stop
- Every song starts from the first note
- Any song can be present
- 3 timbres—piano, organ and mandolin
- 5 tempos available through mask setting
- On chip envelope modulator and pre-amplifier

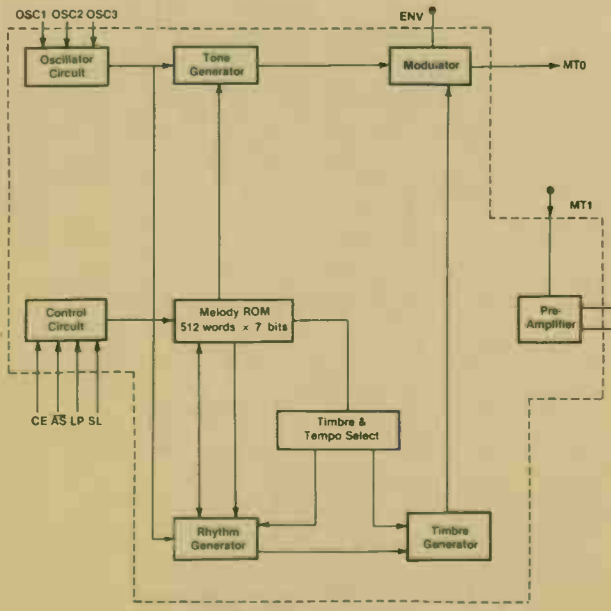
APPLICATIONS

- Toys
- Doorbells
- Music Boxes
- Melody/Clock Timers
- Telephones

ABSOLUTE MAXIMUM RATINGS

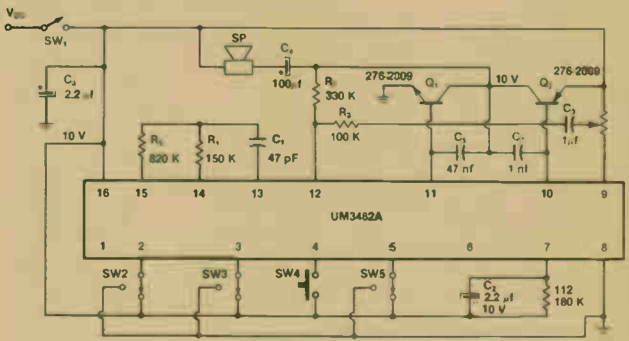
DC supply voltage	– 0.3 V to 5.0 V
Input/output voltage	V_{SS} – 0.3 V to V_{DD} – 0.3 V
Operating ambient temperature	– 10°C to 60°C
Storage temperature	– 55°C to 125°C

BLOCK DIAGRAM



TYPICAL APPLICATION

General application

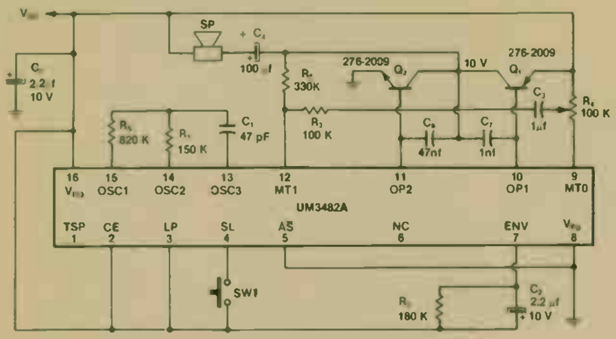


UM3482

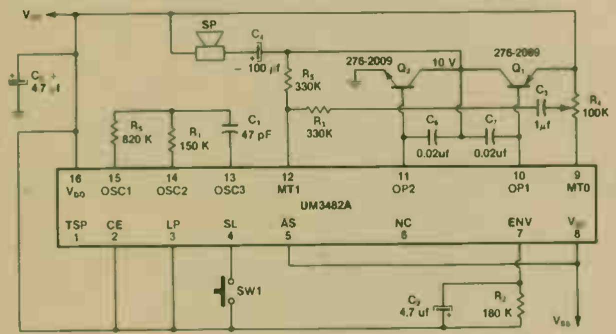
276-1797

TYPICAL APPLICATIONS

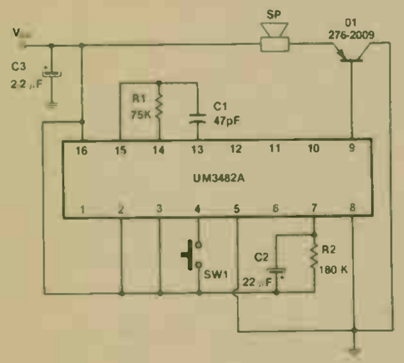
Chime function application

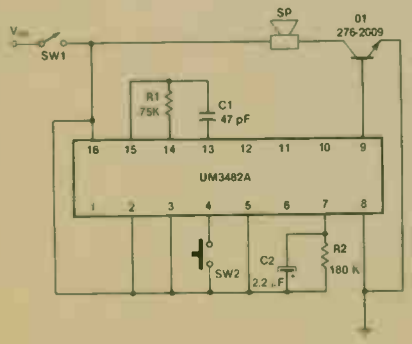


Melody door bell

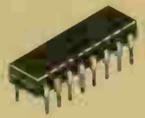


Low cost applications





PIN NAMES	FUNCTION
1(TSP)	Output flag of melody auto stop In normal operating this pin should be open
2(CE)	Chip enable if connected to V_{DD} Chip disable if connected to V_{SS}
3(LP)	The melody plays only one song if this pin connected to V_{DD} The melody plays all songs if this pin connected to V_{SS}
4(SL)	A positive going edge applied to this pin the melody will change to the next song
5($\overline{AS}$)	The melody will be repeated if this pin connected to V_{DD} The melody will be auto stop if this pin connected to V_{SS}
6(NC)	No connection
7(ENV)	Envelope circuit terminal
8(V_{SS})	Negative supply power
9(MTO)	Modulated tone signal output
10(OP1)	Pre-amplifier output 1
11(OP2)	Pre-amplifier output 2
12(MT1)	Modulated tone signal input to the pre-amplifier
13(OSC3)	Pin 13-15 can be connected as an RC oscillator External oscillating signal can be input to Pin 15
14 (OSC2)	
15(OSC1)	
16(V_{DD})	Positive power supply



65,536-BIT DYNAMIC RANDOM ACCESS MEMORY (RAM)

HYB4164-P2
276-2506

GENERAL DESCRIPTION

The HYB4164 is a 65536-word by 1-bit, MOS random access memory circuit fabricated with new 5-volt only n-channel silicon gate technology, using double layer polysilicon. To protect the chip against α-radiation a chip cover is used. The HYB4164 uses single transistor dynamic storage cells and dynamic control circuitry to achieve high speed at very low power dissipation. Multiplexed address inputs permit the HYB4164 to be packaged in an industry standard 16-pin dual-in-line package.

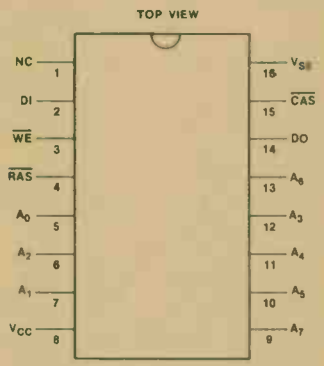
System oriented features include single power supply with ±10% tolerance, on-chip address and data latches which eliminate the need for interface registers and fully TTL compatible inputs and outputs, including clocks.

In addition to the usual read, write and read-modify-write cycles, the HYB4164 is capable of early and delayed write cycles, $\overline{RAS}$-only refresh and hidden refresh. Common I/O capability is given by using "early write" operation.

FEATURES

- 65,536 X1 bit organization
- Industry standard 16-pin JEDEC configuration
- Single +5V ±10% power supply
- Low power dissipation
  - 150 mW active (max.)
  - 20mW standby (max.)
- 150 ns access time, 280 ns cycle
- All inputs and outputs TTL compatible
- High over-and undershooting capability on all inputs
- Low supply current transients
- $\overline{CAS}$ controlled output providing latched or unlatched data
- Common I/O capability using "early write" operation
- Read-Modify-Write, $\overline{RAS}$-only refresh, hidden refresh
- 256 refresh cycles with 4 ms long refresh period
- Page Mode Read and Write

PIN CONNECTION



PIN NAMES	FUNCTION
A_0 - A_7	Address Inputs
$\overline{CAS}$	Column Address Strobe
DI	Data In
NC	No Connection
DO	Data Out
$\overline{RAS}$	Row Address Strobe
$\overline{WE}$	Write Enable
V_{CC}	Power Supply (+5V)
V_{SS}	Ground (OV)

ABSOLUTE MAXIMUM RATINGS

Voltages on any Pin relative to V_{SS}	−1.0 to +7.0V
Voltage High Level Input (All Inputs)	+2.4 to +6.0V
Voltage Low Level Input	−1.0 to +0.8V
Voltage Output High (I_O = −5mA)	+2.4 to +V_{CC} V
Voltage Output Low (I_O = +4.2mA)	0.4V
Short Circuit Output Current	50mA
Power Dissipation	1.0W
Operating Temperature Range	0 to +70°C
Storage Temperature Range	−65 to +150°C

FUNCTIONAL DESCRIPTIONS

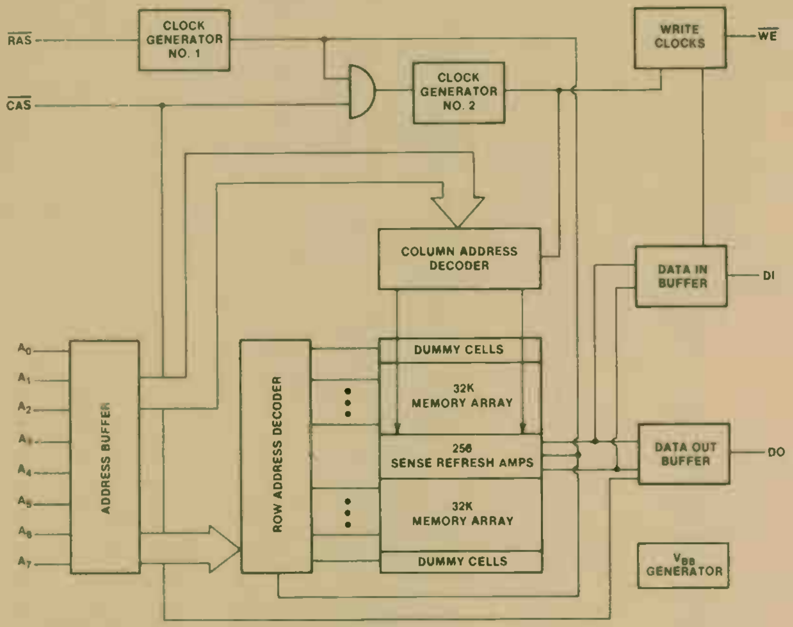
Addressing (A_0 - A_7)

For selecting one of the 65536 memory cells, a total of 16 address bits are required. First 8 row-address bits are setup on pins A_0 through A_7 and latched onto the row address latches by the Row Address Strobe ($\overline{RAS}$). Then the 8 column-address bits are set-up on pins A_0 through A_7 and latched onto the column address latches by the Column Address Strobe ($\overline{CAS}$). All input addresses must be stable on or shortly after the falling edge of $\overline{RAS}$ and $\overline{CAS}$ respectively. $\overline{CAS}$ is internally gated by $\overline{RAS}$ to permit triggering of column address latches as soon as the Row Address Hold Time (t_{RAH}) specification has been satisfied and the address inputs have been changed from row-address to column-address.

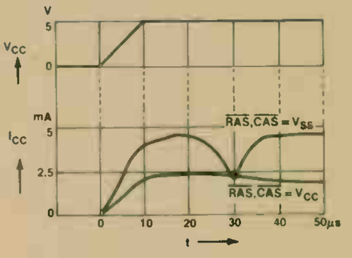
It should be noted that $\overline{RAS}$ is similar to a chip enable in that it activates the sense amplifiers as well as the row decoder. $\overline{CAS}$ is used as a chip-select activating the column decoder and the input and output buffers.

HYB4164 276-2506

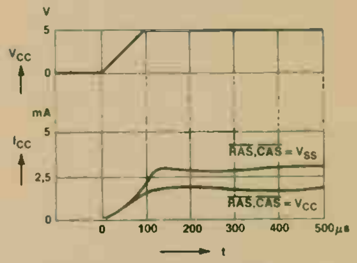
BLOCK DIAGRAM



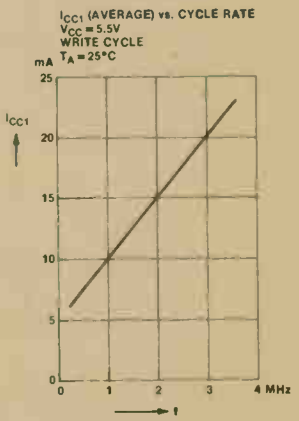
TYPICAL CHARACTERISTICS

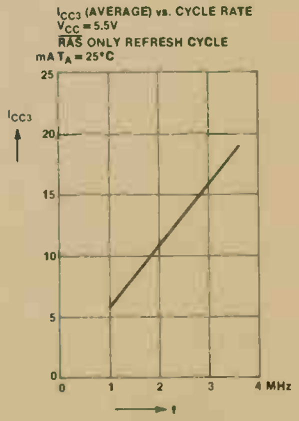


Current Consumption During Power Up (V_{CC} Risetime 10μs)



Current Consumption During Power Up (V_{CC} Risetime 100μs)





FUNCTIONAL DESCRIPTIONS (Cont'd)

Write Enable ($\overline{WE}$)

The read or write mode is selected with the $\overline{WE}$ input. A logic high (V_{IH}) on $\overline{WE}$ dictates read mode; logic low (V_{IL}) dictates write mode. The data input is disabled when the read mode is selected. When $\overline{WE}$ goes low prior to $\overline{CAS}$, data output (DO) will remain in the high-impedance state for the entire cycle permitting common I/O operation.

Data Input (DI)

Data is written during a write or read-modify-write cycle. The falling edge of $\overline{CAS}$ or $\overline{WE}$ strobes data into the on-chip data latch. In an early write cycle $\overline{WE}$ is brought low prior to $\overline{CAS}$ and the data is strobed in by $\overline{CAS}$ with set-up and hold times referenced to this signal. In a delayed write or read-modify write cycle, $\overline{CAS}$ will already be low, thus the data will be strobed in by $\overline{WE}$ with set-up and hold times referenced to this signal.

Power ON

An initial pause of 200 μs is required after power-up followed by a minimum of eight (8) initialization cycles (any combination of cycles containing a $\overline{RAS}$ clock such as $\overline{RAS}$-only refresh) prior to normal operation. The current requirement of the HYB4164 during power on is, however, dependent upon the input levels $\overline{RAS}$, $\overline{CAS}$ and the rise time of V_{CC}, as shown in the (Current Consumption During Power Up) diagram.

Data Output (DO)

The output buffer is three-state TTL compatible with a fan-out of two standard TTL loads. Data-out is the same polarity as data-in. The output is in a high-impedance state until $\overline{CAS}$ is brought low. In a read cycle, or read-write cycle, the output is valid after t_{RAC} from the transition of $\overline{RAS}$ when t_{RCD} (min) is satisfied, or after t_{CAC} from the transition of $\overline{CAS}$ when the transition occurs after t_{RCD} (max.). $\overline{CAS}$ going high returns the output to a high-impedance state. In an early write cycle the output is always in the high-impedance state. In a delayed write or read-modify-write cycle, the output will follow the sequence for the read cycle.

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FUNCTIONAL DESCRIPTIONS (Cont'd)

Hidden Refresh

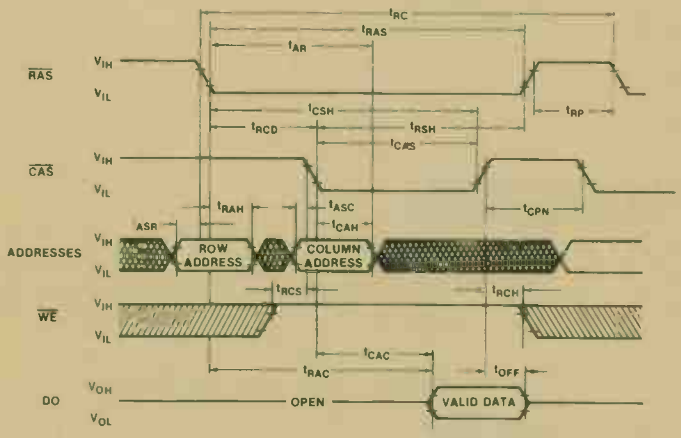
$\overline{RAS}$ only refresh cycle may take place while maintaining valid output data. This feature is referred to as Hidden Refresh. Hidden Refresh is performed by holding $\overline{CAS}$ at V_{IL} from a previous memory read cycle.

Page Mode

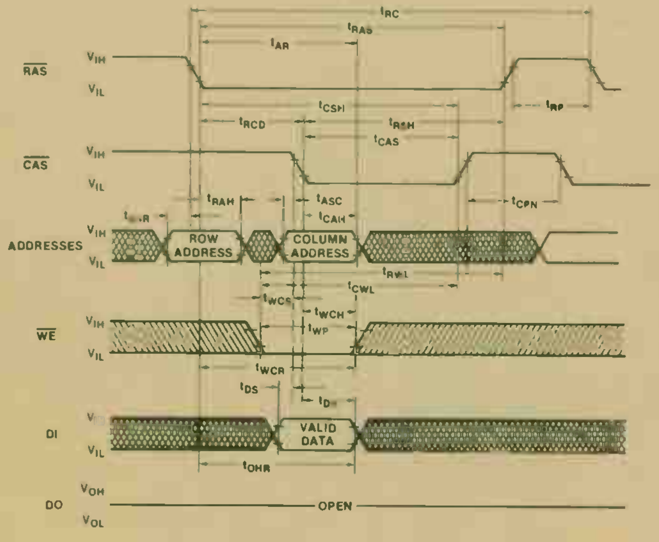
Page Mode operations allows a faster data transfer rate. This is achieved by maintaining the row address while strobing successive column addresses onto the chip. The time required to set-up and strobe sequential row addresses for the same page is eliminated.

Refresh Cycle

A refresh operation must be performed at least every four milli-seconds to retain data. Since the output buffer is in the high-impedance state unless $\overline{CAS}$ is applied, the $\overline{RAS}$ only refresh sequence avoids any output signal during refresh. Strobing each of the 256 row addresses (A_0 through A_7) with $\overline{RAS}$ causes all bits in each row to be refreshed. $\overline{CAS}$ can remain high (inactive) for this refresh sequence to conserve power.

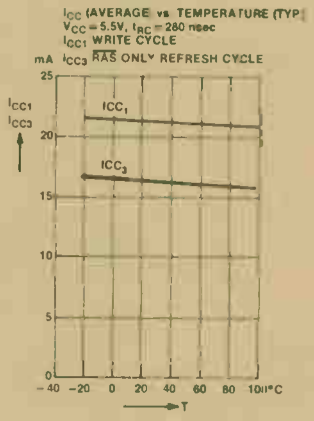


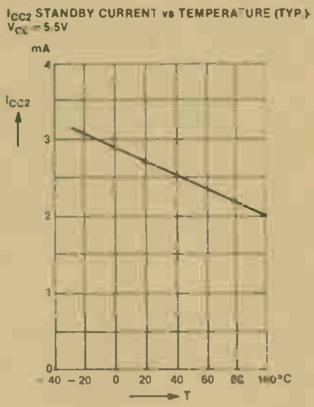
Read Cycle

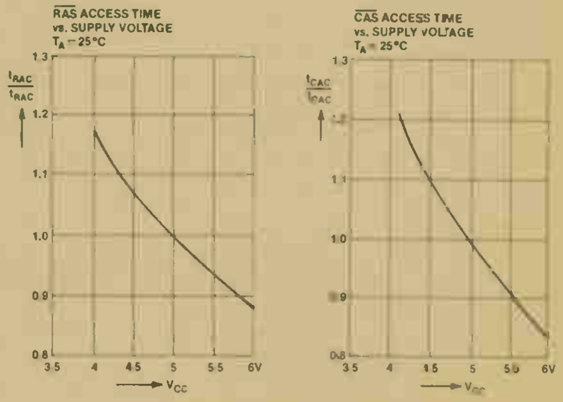


Write Cycle (Early Write)

TYPICAL CHARACTERISTICS (Cont'd)



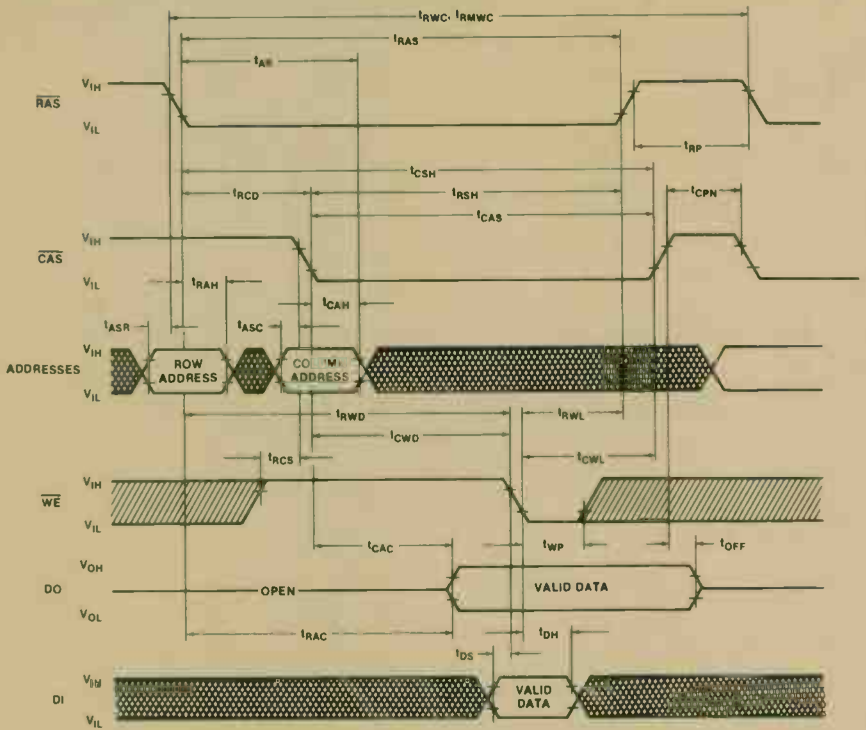




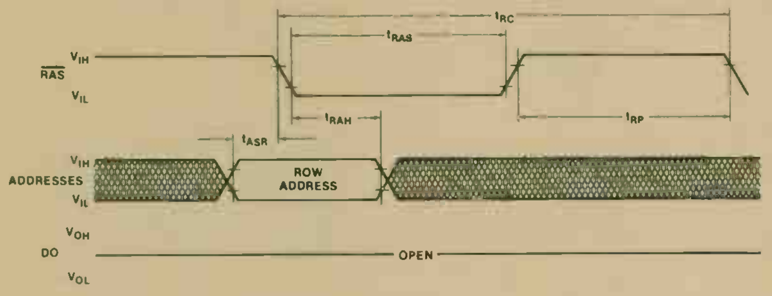
Typical Access Time Curves

HYB4164 276-2506

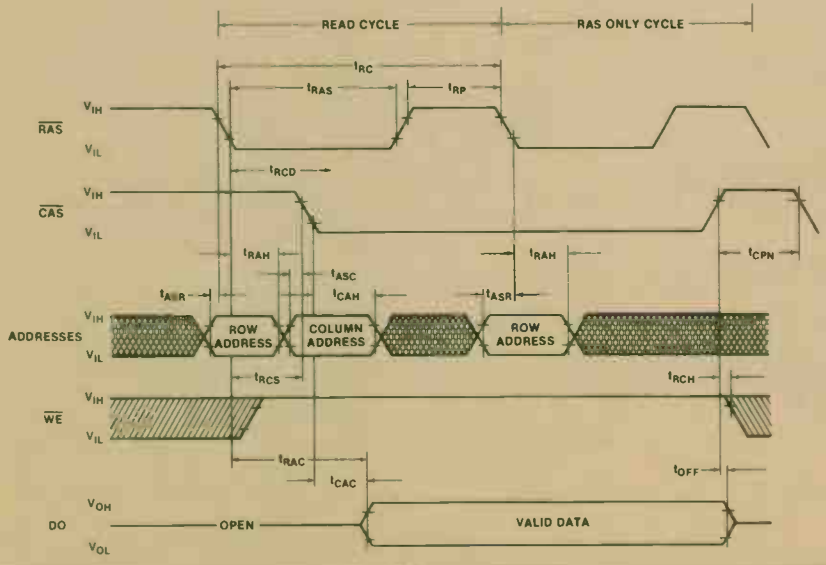
TYPICAL CHARACTERISTICS (Cont'd)



Read-Write/Read-Modify-Write Cycle

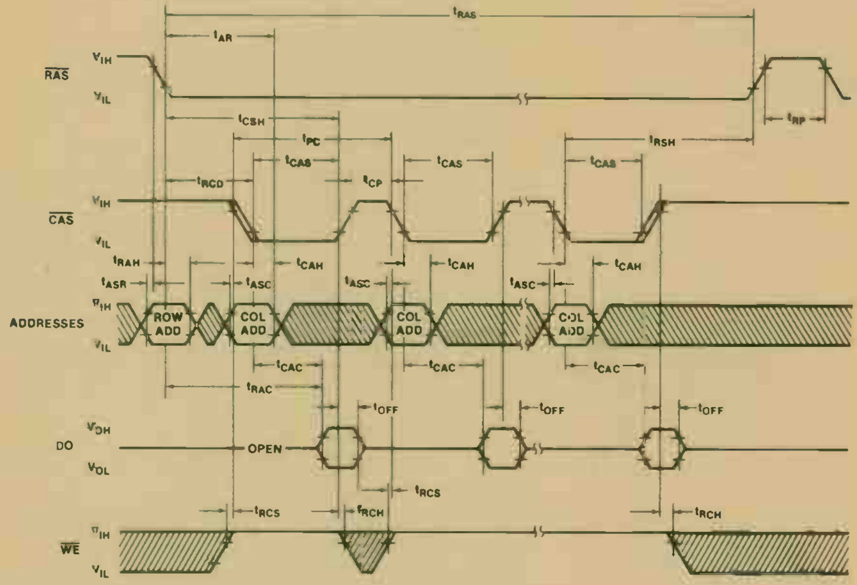


"$\overline{RAS}$-ONLY" REFRESH CYCLE
NOTE $\overline{CAS} = V_{IH}$; $\overline{WE}$ = DON'T CARE

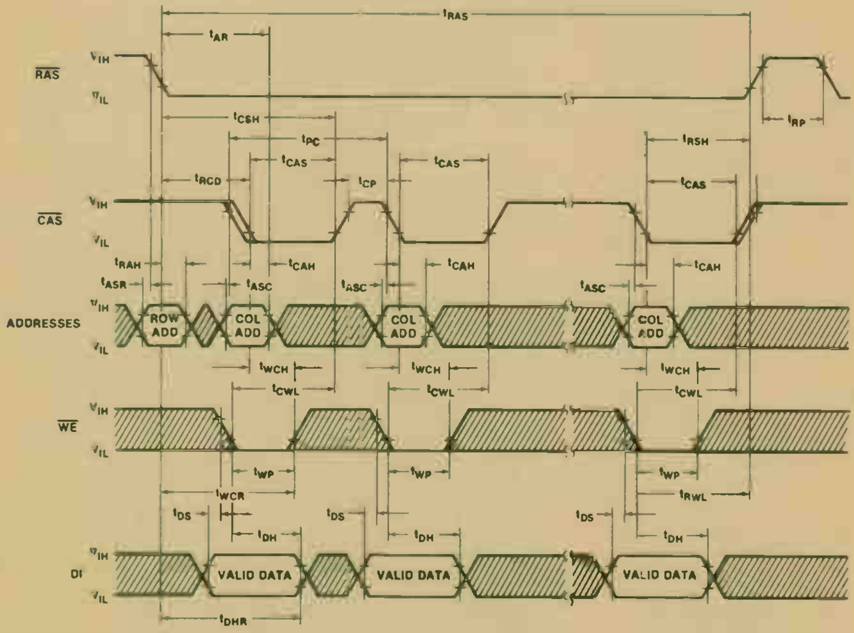


Hidden Refresh

TYPICAL CHARACTERISTICS (Cont'd)



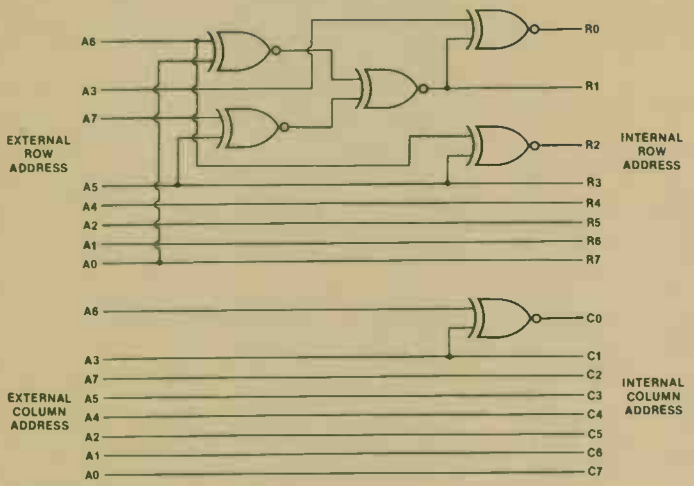
Page Mode Read Cycle



Page Mode Write Cycle

HYB4164 276-2506

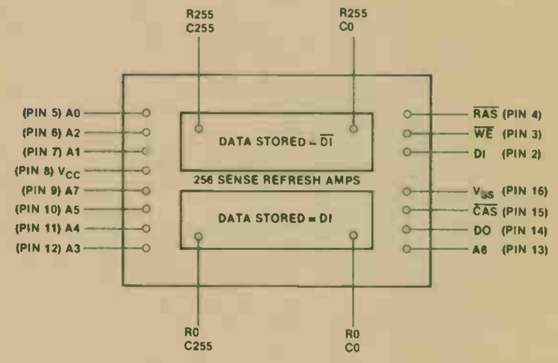
TYPICAL CHARACTERISTICS (Cont'd)



INTERNAL DATA POLARITY
DATA STORED = $DI \mp A_0$ (ROW)

NOTE: The logic symbol "exclusive nor" is used solely to indicate the logic function.

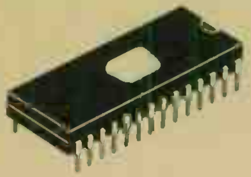
Address Decoder Scrambling



Internal Topology

Topology Description

The evaluation and incoming testing of RAMs normally requires a description of the internal topology of the device in order to check for "worst case" pattern.



64K UV EPROM

MSM 2764RS
276-1251

GENERAL DESCRIPTION

The MSM2764RS is a 8192W × 8 bit ultraviolet erasable and electrically programmable read-only memory. Users can freely prepare the memory content, which can be easily changed, so the MSM2764RS is ideal for microprocessor programs.

The MSM2764RS is manufactured using the N channel double silicon gate MOS technology.

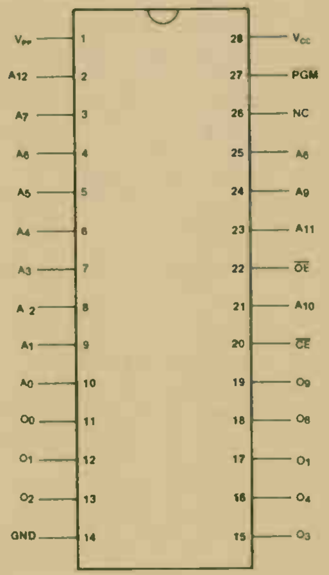
FEATURES

- +5V single power supply
- 8192 words × 8 bits configuration
- Access time: MAX 250ns
- Power consumption:
  MAX 525 mW (during operation)
  MAX 184 mW (during stand-by)
- Perfect static operation
- INPUT/OUTPUT TTL level (three state output)

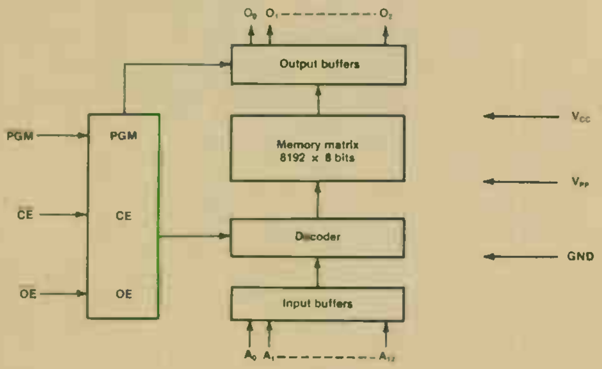
ABSOLUTE MAXIMUM RATINGS

Program Voltage V_{PP}	−0.6 V to 23 V
All input/output voltages V_{in}, V_{out}	−0.6 V to 7V
Power P_D	1.5 W
Operating Temperature T_A	0°C to 70°C
Storage Temperature $T_{S\&G}$	−55°C to 125°C

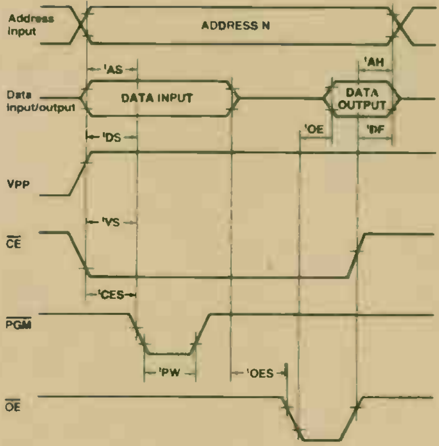
PIN CONNECTIONS



BLOCK DIAGRAM

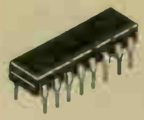


Time Chart



TMS4256
276-1252

256 K DYNAMIC RAM



GENERAL DESCRIPTION

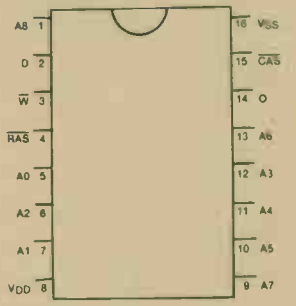
The 4256 is a high-speed, 262,144-bit dynamic random-access memory, organized as 262,144 words of one bit each. It employs state-of-the-art SMOS (scaled MOS) N-channel double-level polysilicon/polycide gate technology for very high performance combined with low cost and improved reliability.

This device features maximum $\overline{RAS}$ access times of 150ns. Typical power dissipation is as low as 275 mW operating and 12.5 mW standby.

New SMOS technology permits operation from a single 5-V supply, reducing system power supply and decoupling requirements, and easing board layout. I_{DD} peaks are 125 mA typical, and − 1-V input voltage undershoot can be tolerated, minimizing system noise considerations.

All inputs and outputs, including clocks, are compatible with Series 74 TTL. All address and data-in lines are latched on chip to simplify system design. Data out is unlatched to allow greater system flexibility.

PIN CONNECTION



FEATURES

- 262,144 × 1 organization
- Single 5 V supply
- Access time row address 150ns (Max.)
- Access time column address 75ns (Max.)
- Read or write cycle 260ns (Min.)
- Long refresh period 4ms (Max.)
- Low refresh overhead time
- On-chip substitute bias generator
- All inputs, outputs, and clocks fully TTL compatible
- $\overline{RAS}$-only refresh mode
- Hidden refresh mode
- $\overline{CAS}$-before-$\overline{RAS}$ refresh mode

TRUTH TABLE

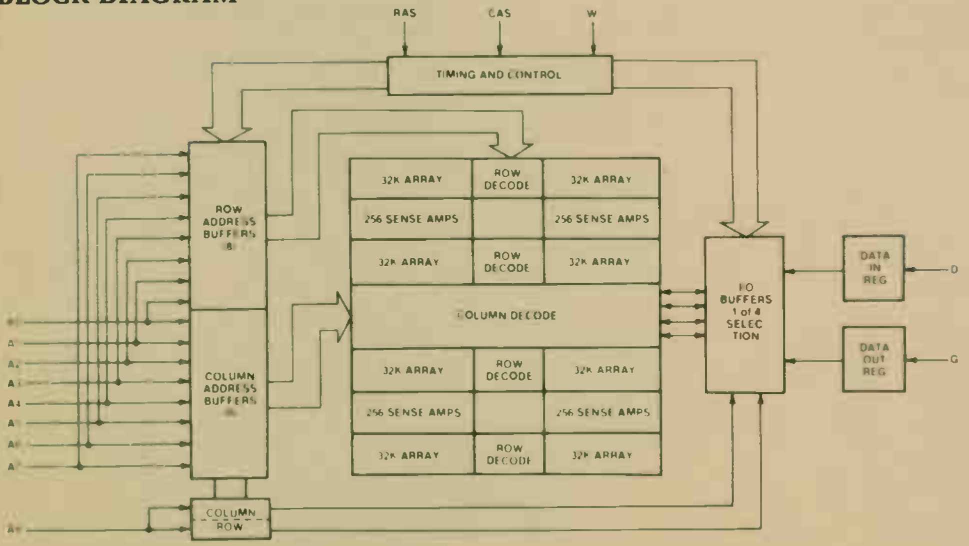
PIN NAMES	FUNCTION
A0–A8	Address Inputs
$\overline{CAS}$	Column-Address Strobe
D	Data In
Q	Data Out
$\overline{RAS}$	Row-Address Strobe
V_{DD}	5-V Supply
V_{SS}	Ground
$\overline{W}$	Write Enable

ABSOLUTE MAXIMUM RATINGS

Voltage range for any pin including V_{DD} supply (see Note 1)	− 1 V to 7 V
Short circuit output current	50 mA
Power dissipation	1 W
Operating free-air temperature range	0°C to 70°C
Storage temperature range	− 65°C to 150°C

NOTES: 1. All voltage values are with respect to V_{SS}.

BLOCK DIAGRAM



OPERATION

address (A0 through A8)

Eighteen address bits are required to decode 1 of 262,144 storage cell locations. Nine row-address bits are set up on pins A0 through A8 and latched onto the chip by the row-address strobe ($\overline{\text{RAS}}$). Then the nine column-address bits are set up on pins A0 through A8 and latched onto the chip by the column-address strobe ($\overline{\text{CAS}}$). All addresses must be stable on or before the falling edges of $\overline{\text{RAS}}$ and $\overline{\text{CAS}}$. $\overline{\text{RAS}}$ is similar to a chip enable in that it activates the sense amplifiers as well as the row decoder. $\overline{\text{CAS}}$ is used as a chip select activating the column decoder and the input and output buffers.

write enable ($\overline{\text{W}}$)

The read or write mode is selected through the write-enable ($\overline{\text{W}}$) input. A logic high on the $\overline{\text{W}}$ input selects the read mode and a logic low selects the write mode. The write-enable terminal can be driven from standard TTL circuits without a pull-up resistor. The data input is disabled when the read mode is selected. When $\overline{\text{W}}$ goes low prior to $\overline{\text{CAS}}$, data out will remain in the high-impedance state for the entire cycle permitting common I/O operation.

data in (D)

Data is written during a write or read-modify-write cycle. Depending on the mode of operation, the falling edge of $\overline{\text{CAS}}$ or $\overline{\text{W}}$ strobes data into the on-chip data latch. This latch can be driven from standard TTL circuits without a pull-up resistor. In an early write cycle, $\overline{\text{W}}$ is brought low prior to $\overline{\text{CAS}}$ and the data is strobed in by $\overline{\text{CAS}}$ with setup and hold times referenced to this signal. In a delayed-write or read-modify-write cycle, $\overline{\text{CAS}}$ will already be low, thus the data will be strobed in by $\overline{\text{W}}$ with setup and hold times referenced to this signal.

data out (Q)

The three-state output buffer provides direct TTL compatibility (no pull-up resistor required) with a fan out of two Series 74 TTL loads. Data out is the same polarity as data in. The output is in the high-impedance (floating) state until $\overline{\text{CAS}}$ is brought low. In a read cycle the output goes active after the access time interval $t_{a(C)}$ that begins with the negative transition of $\overline{\text{CAS}}$ as long as $t_{a(R)}$ is satisfied. The output becomes valid after the access time has elapsed and remains valid while $\overline{\text{CAS}}$ is low; $\overline{\text{CAS}}$ going high returns it to a high-impedance state. In a read-modify-write cycle, the output will follow the sequence for the read cycle.

refresh

A refresh operation must be performed at least once every four milliseconds to retain data. This can be achieved by strobing each of the 256 rows (A0–A7). A normal read or write cycle will refresh all bits in each row that is selected. A $\overline{\text{RAS}}$-only operation can be used by holding $\overline{\text{CAS}}$ at the high (inactive) level, thus conserving power as the output buffer remains in the high-impedance state.

$\overline{\text{CAS}}$-before-$\overline{\text{RAS}}$ refresh

The $\overline{\text{CAS}}$-before-$\overline{\text{RAS}}$ refresh is utilized by bringing $\overline{\text{CAS}}$ low earlier than $\overline{\text{RAS}}$ (see parameter t_{CRL}) and holding it low after $\overline{\text{RAS}}$ falls (see parameter t_{CLRL}). For successive $\overline{\text{CAS}}$-before-$\overline{\text{RAS}}$ refresh cycles, $\overline{\text{CAS}}$ can remain low while cycling $\overline{\text{RAS}}$. The external address is ignored and the refresh address is generated internally.

hidden refresh

Hidden refresh may be performed while maintaining valid data at the output pin. This is accomplished by holding $\overline{\text{CAS}}$ at V_{IL} after a read operation and cycling $\overline{\text{RAS}}$ after a specified precharge period, similar to a "$\overline{\text{RAS}}$-only" refresh cycle. The external address is also ignored during the hidden refresh cycles.

page mode

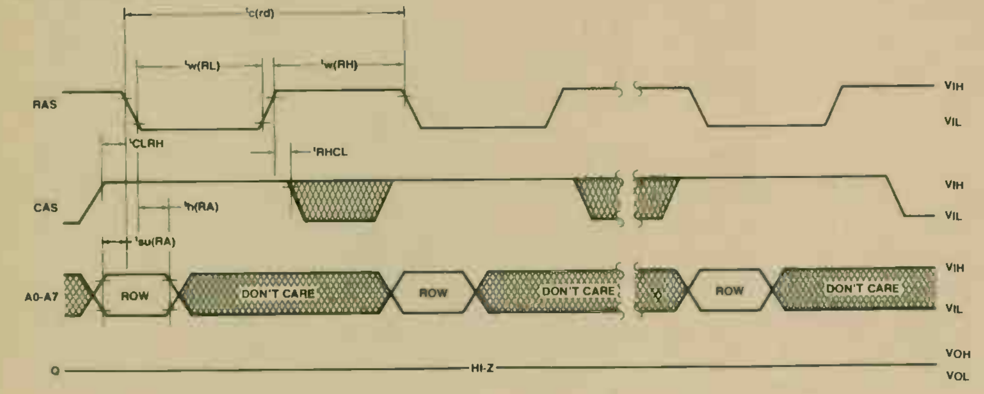
Page-mode operation allows effectively faster memory access by keeping the same row address and strobing random column addresses onto the chip. Thus, the time required to setup and strobe sequential row addresses for the same page is eliminated. The maximum number of columns that can be addressed is determined by $t_{w(RL)}$, the maximum $\overline{\text{RAS}}$ low pulse duration.

power-up

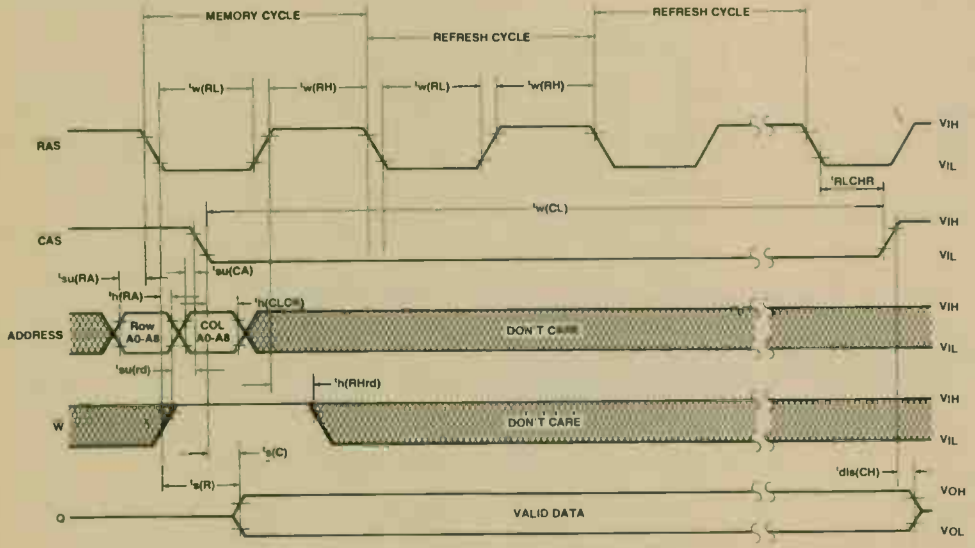
To achieve proper device operation, an initial pause of 200 µs is required after power up followed by a minimum of eight initialization cycles.

TMS 4256 276-1252

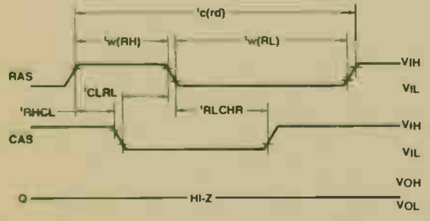
RAS-only refresh cycle timing

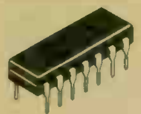


hidden refresh cycle timing



automatic (CAS-before-RAS) refresh cycle timing





QUAD TWO-INPUT NAND GATE

7400
276-1801

GENERAL DESCRIPTION

This device employs TTL logic to achieve high speed at moderate power dissipiation. It provides the basic functions used in the implementation of digital integrated circuit systems.

For best noise immunity and switching speed, unused inputs should not be left floating, but should be held between 2.4 V and the absolute maximum input voltage.

Two possible ways at handling unused inputs are:

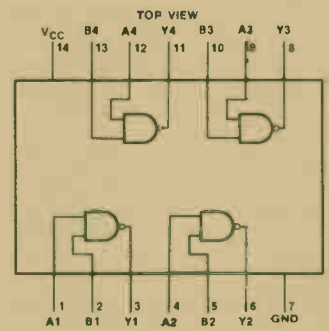
(1) Connect unused inputs to V_{CC}. For all multi-emitter conventional TTL inputs, A 1 to 10K ohm current limiting series resistor is recommended, to protect against V_{CC} transients that exceed 5.5 V.

(2) Connect the unused input to the output of an unused gate that is forced high.

ABSOLUTE MAXIMUM RATINGS

Supply Voltage V_{CC}	5.25 V
Input High Voltage	2.0 V
Input Low Voltage	0.8 V
Input Clamp Diode Voltage (V_{CC} = 5.0 V, I_{IN} = −12 mA)	−1.5 V
Input High CUrrent (V_{CC} = Max., V_{IN} = 2.4 V)	40 µA
Input Low Current (V_{CC} = Max., V_{IN} = 0.4 V)	−1.6 mA
Operating Temperature	0 to +70°C

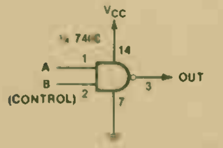
PIN CONNECTION



TRUTH TABLE

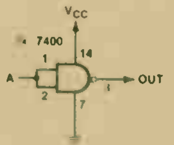
$Y=\overline{AB}$

TYPICAL APPLICATIONS



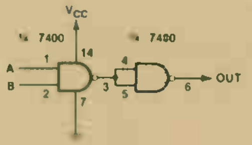
A	B	OUT
L	L	H
L	H	H
H	L	H
H	H	L

Control Gate



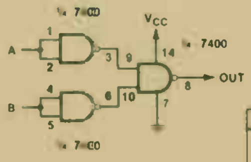
A	OUT
L	H
H	L

Inverter



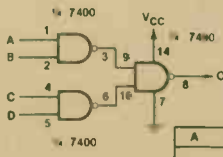
A	B	OUT
L	L	L
L	H	L
H	L	L
H	H	H

AND Gate



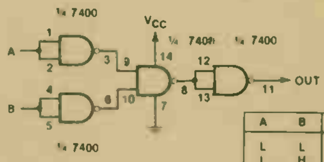
A	B	OUT
L	L	L
L	H	H
H	L	H
H	H	H

OR Gate



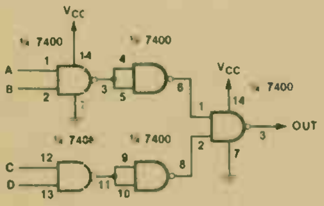
A	B	C	D	OUT
X	X	H	H	H
H	H	X	X	H
H	H	H	H	H

AND-OR Gate



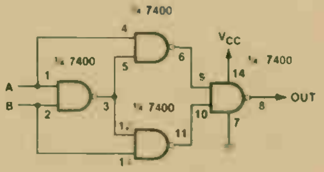
A	B	OUT
L	L	H
L	H	L
H	L	L
H	H	L

NOR Gate



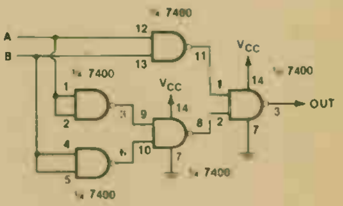
A	B	C	D	OUT
L	X	X	X	H
X	L	X	X	H
X	X	L	X	H
X	X	X	L	H
H	H	H	H	L

4-Input NAND Gate



A	B	OUT
L	L	L
L	H	H
H	L	H
H	H	L

Exclusive-OR Gate

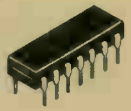


A	B	OUT
L	L	H
L	H	L
H	L	L
H	H	H

Exclusive-NOR Gate

7404
276-1802

HEX INVERTER



GENERAL DESCRIPTION

This device employs TTL logic to achieve high speed at moderate power dissipation. This hex inverter provides the basic functions used in the implementation of digital integrated circuit systems.

For best noise immunity and switching speed, unused inputs should not be left floating, but should be held between 2.4 V and the absolute maximum input voltage.

Two possible ways of handling unused inputs are:

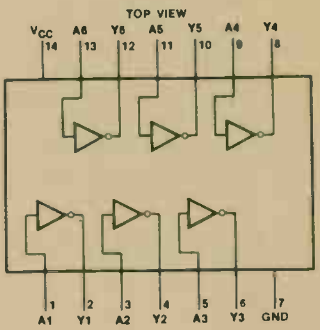
(1) Connect unused inputs to V_{CC}. For all multi-emitter conventional TTL inputs, A 1 to 10K ohm current limiting series resistor is recommended, to protect against V_{CC} transients that exceed 5.5 V.

(2) Connect the unused input to the output of an unused gate that is forced high.

ABSOLUTE MAXIMUM RATINGS

Supply Voltage V_{CC}	5.25 V
Input High Voltage	2.0 V
Input Low Voltage	0.8 V
Input Clamp Diode Voltage (V_{CC} = 5.0 V, I_{IN} = − 12 mA)	− 1.5 V
Input High Current (V_{CC} = Max., V_{IN} = 2.4 V)	40 μA
Input Low Current (V_{CC} = Max., V_{IN} = 0.4 V)	− 1.6 mA
Operating Temperature	0 to + 70°C

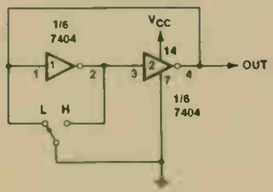
PIN CONNECTION



TRUTH TABLE

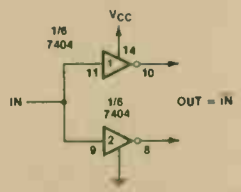
$Y = \overline{A}$

TYPICAL APPLICATIONS



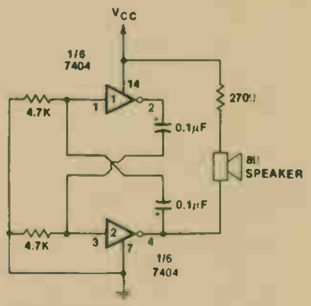
Output follows switch position.

Bouncefree Switch



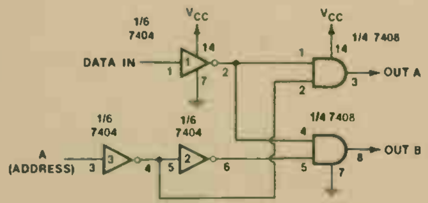
Allows one signal to control two or more inputs.

Universal Expander



Output tone is 4kHz.

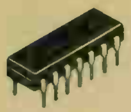
Audio Oscillator



This circuit steers the input bit to the output selected by the address.

DATA	ADDRESS	OUT A	OUT B
L	L	L	H
H	L	H	H
L	H	H	L
H	H	H	H

1-of-2 Demultiplexer



QUAD TWO-INPUT AND GATE

7408
276-1822

GENERAL DESCRIPTION

This device employs TTL logic to achieve high speed at moderate power dissipation. These gates provide the basic functions used in the implementation of digital integrated circuit systems.

For best noise immunity and switching speed, unused inputs should not be left floating, but should be held between 2.4 V and the absolute maximum input voltage.

Two possible ways at handling unused inputs are:

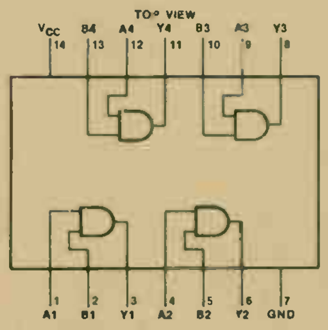
(1) Connect unused inputs to V_{CC}. For all multi-emitter conventional TTL inputs, a 1 to 10K ohm current limiting series resistor is recommended, to protect against V_{CC} transients that exceed 5.5 V.

(2) Connect the unused input to the output of an unused gate that is forced high.

ABSOLUTE MAXIMUM RATINGS

Supply Voltage V_{CC}	5.25 V
Input High Voltage	2.0 V
Input Low Voltage	0.8 V
Input Clamp Diode Voltage (V_{CC} = 5.0 V, I_{IN} = − 12 mA)	− 1.5 V
Input High Current (V_{CC} = Max., V_{IN} = 2.4 V)	40 µA
Input Low Current (V_{CC} = Max., V_{IN} = 0.4 V)	− 1.6 mA
Operating Temperature	0 to + 70°C

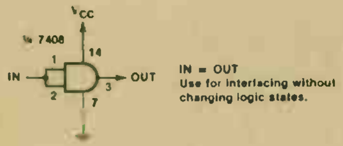
PIN CONNECTION



TRUTH TABLE

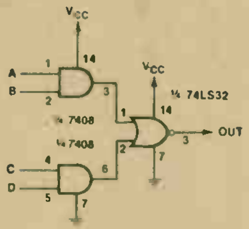
Y=AB

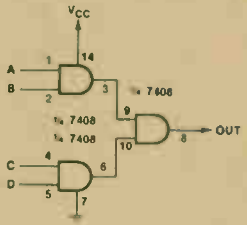
TYPICAL APPLICATIONS

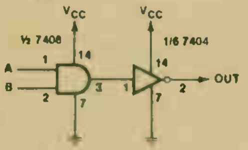


IN = OUT
Use for interfacing without changing logic states.

AND Gate Buffer







A	B	OUT
L	L	H
L	H	H
H	L	H
H	H	L

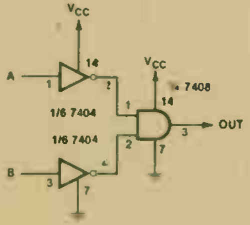
NAND Gate

A	B	C	D	OUT
X	X	X	X	H
L	L	X	X	L
L	L	L	L	L

AND-OR-Invert Gate

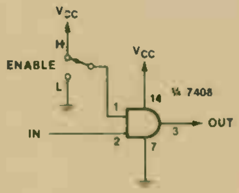
A	B	C	D	OUT
H	H	H	H	H
X	X	X	X	L

4-Input AND Gate



A	B	OUT
L	L	H
L	H	L
H	L	L
H	H	L

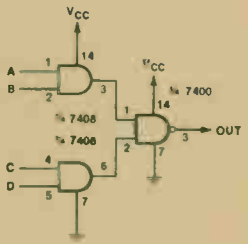
NOR Gate



IN	E	OUT
L	L	L
L	H	L
H	L	L
H	H	H

E = ENABLE

Digital Transmission Gate

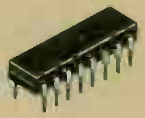


A	B	C	D	OUT
H	H	H	H	L
X	X	X	X	H

4-Input NAND Gate

7447
276-1805

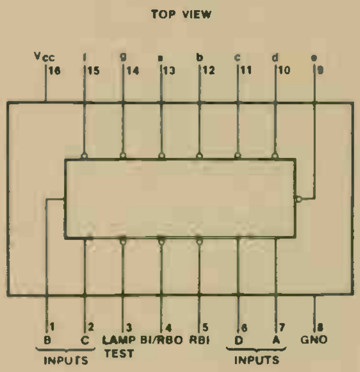
BCD TO SEVEN-SEGMENT DECODER/DRIVER



GENERAL DESCRIPTION

This versatile binary-coded-decimal 7-segment display driver fulfills a wide variety of requirements for most active high (common cathode) and active low (common anode) light emitting diodes (LED) or lamp displays. It fully decodes a 4-bit BCD input into a number from 0 through 9 in the standard 7-segment display format, and BCD numbers above 9 into unique patterns that verify operation. All circuits operate off of a single 5.0V supply. The output will withstand 15 Volts at a maximum leakage current of 250μA.

PIN CONNECTION



FEATURES

- Lamp-test input
- Leading trailing zero suppression (RBI and RBO)
- Blanking input that may be used to modulate lamp intensity or inhibit output
- TTL and DTL compatible
- Input clamping diodes
- Open collector outputs drive indicators directly

ABSOLUTE MAXIMUM RATINGS

Supply Voltage V_{CC}	4.75 — 5.25 V
Continuous Voltage at Outputs a-g	Max. 15 V
Logic 1 Input Voltage	Min. 2 V
Logic 0 Input Voltage	Max. 0.8 V
Logic 0 Output Voltage BI/RBO	Max. 0.4 V
Logic 1 Output Voltage at BI/RBO	Min. 2.4 V
Power	320 mW

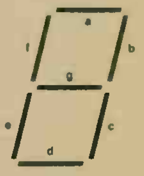
TRUTH TABLE

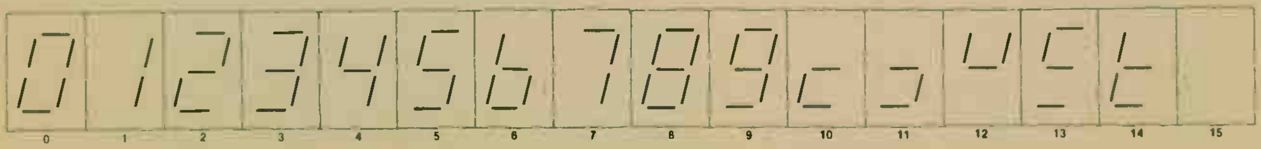
DECIMAL OR FUNCTION	INPUTS						BI/RBO†	OUTPUTS							NOTE
	LT	RBI	D	C	B	A		a	b	c	d	e	f	g	
0	H	H	L	L	L	L	H	L	L	L	L	L	L	H	
1	H	X	L	L	L	H	H	H	L	L	H	H	H	H	
2	H	X	L	L	H	L	H	L	L	H	L	L	H	L	
3	H	X	L	L	H	H	H	L	L	L	L	H	H	L	
4	H	X	L	H	L	L	H	H	L	L	H	H	L	L	
5	H	X	L	H	L	H	H	L	H	L	L	H	L	L	
6	H	X	L	H	H	L	H	H	H	L	L	L	L	L	
7	H	X	L	H	H	H	H	L	L	L	H	H	H	H	
8	H	X	H	L	L	L	H	L	L	L	L	L	L	L	1
9	H	X	H	L	L	H	H	L	L	L	H	H	L	L	
10	H	X	H	L	H	L	H	H	H	H	L	L	H	L	
11	H	X	H	L	H	H	H	H	H	L	L	H	H	L	
12	H	X	H	H	L	L	H	H	L	H	H	H	L	L	
13	H	X	H	H	L	H	H	L	H	H	L	H	L	L	
14	H	X	H	H	H	L	H	H	H	H	L	L	L	L	
15	H	X	H	H	H	H	H	H	H	H	H	H	H	H	
BI	X	X	X	X	X	X	L	H	H	H	H	H	H	H	2
RBI	H	L	L	L	L	L	L	H	H	H	H	H	H	H	3
LT	L	X	X	X	X	X	H	L	L	L	L	L	L	L	4

H = High Level. L = Low Level. X = Irrelevant

Notes:
1. The blanking input (BI) must be open or held at a high logic level when output functions 0 thru 15 are desired. The ripple-blanking input (RBI) must be open or high, if blanking of a decimal zero is not desired.
2. When a low logic level is applied directly to the blanking input (BI), all segment outputs are H regardless of the level of any other input.
3. When ripple-blanking input (RBI) and inputs A, B, C, and D are at a low level with the lamp-test input high, all segment outputs go H and the ripple-blanking output (RBO) goes to a low level (response condition).
4. When the blanking input/ripple blanking output (BI/RBO) is open or held high and a low is applied to the lamp test input, all segment outputs are L.

† BI/RBO is wire-AND logic serving as blanking input (BI) and/or ripple-blanking output (RBO).

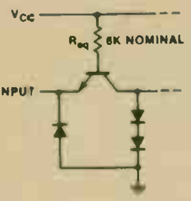




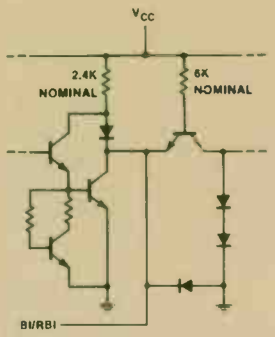
Numerical Designations and Resultant Displays

7447 276-1805

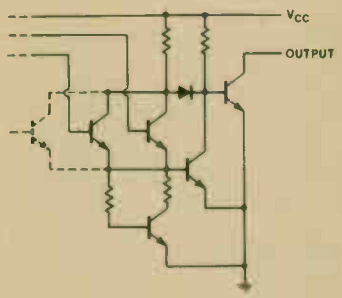
INPUT/OUTPUT EQUIVALENTS



Each Input Except BI/RBO

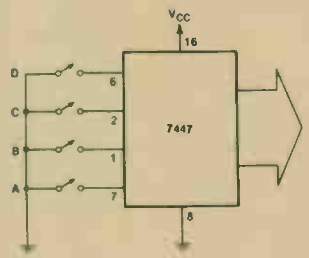


BI/RBO Input

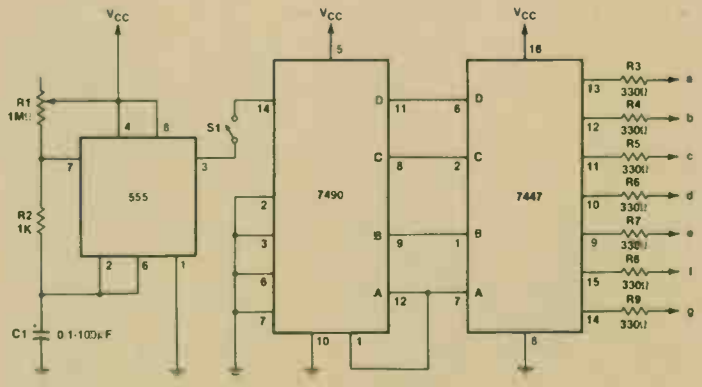


Typical of Outputs a Thru g

TYPICAL APPLICATIONS



Manually Switched Display

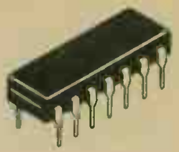


Close S1 to start timing cycle.
Calibrate 555 for 1 pulse (count) per second or 1 count per minute by adjusting R1.

0-9 Second/Minute Timer

7490
276-1808

DIVIDE BY 2 OR 5, BCD COUNTER



GENERAL DESCRIPTION

This monolithic BCD counter contains four master-slave flip-flops and additional gating to provide a divide-by-two counter and a three-stage binary counter for which the count cycle length is divide-by-five.

This counter has a gated zero reset and gated set-to-nine inputs for use in BCD nine's complement applications.

To use maximum count length. the B input is connected to the Q_A output. The input count pulses are applied to input A and the outputs are as described in the appropriate truth table. A symmetrical divide-by-ten count can be obtained from the 90 counter by connecting the Q_D output to the A input and applying the input count to the B input which gives a divide-by-ten square wave at output Q_A.

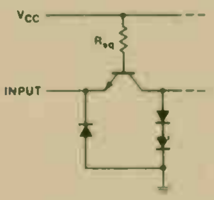
FEATURES

- Low power consumption
- High count rates . . . typically 50MHz
- Choice of counting modes
- Fully TTL and CMOS compatible

ABSOLUTE MAXIMUM RATINGS

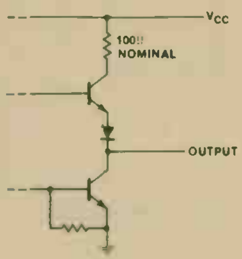
Typical Power Dissipation	145 mW
Count Frequency	42 MHz
High Level Input Voltage (Min)	2 V
Low Level Input Voltage (Max)	0.8 V
High Level Input Current	800 μA
Low Level Output Current (Max)	16 mA
V_{CC} to Ground	−0.5 to +7.0 V
Voltage Applied to Outputs (Output High)	−0.5 to +5.5 V

INPUT/OUTPUT EQUIVALENTS



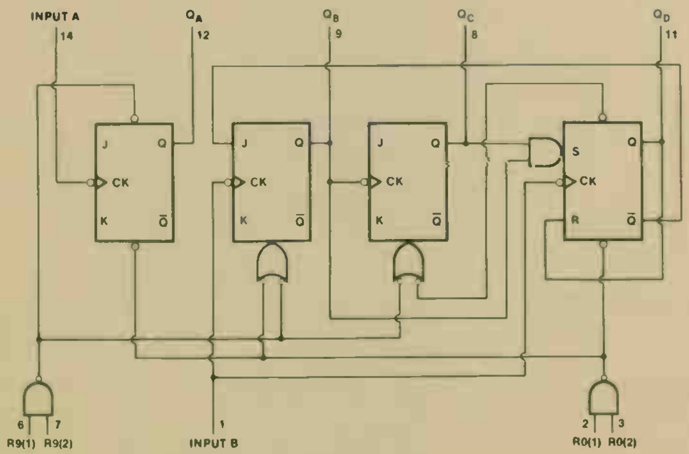
INPUT	R_{eq} NOMINAL
A	2.5K
B	1.25K
ALL RESETS	6K

Each Input

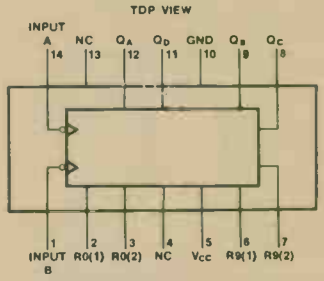


Typical of all Outputs

BLOCK DIAGRAM



PIN CONNECTION



TRUTH TABLES

RESET/COUNT

RESET INPUTS				OUTPUTS			
RO(1)	RO(2)	R9(1)	R9(2)	Q_D	Q_C	Q_B	Q_A
H	H	L	X	L	L	L	L
H	H	X	L	L	L	L	L
X	X	H	H	H	L	L	H
X	L	X	L	COUNT			
L	X	L	X	COUNT			
L	X	X	L	COUNT			
X	L	L	X	COUNT			

BCD COUNT SEQUENCE (See Note A)

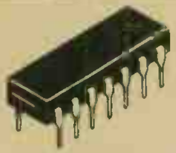
COUNT	OUTPUTS			
	Q_D	Q_C	Q_B	Q_A
0	L	L	L	L
1	L	L	L	H
2	L	L	H	L
3	L	L	H	H
4	L	H	L	L
5	L	H	L	H
6	L	H	H	L
7	L	H	H	H
8	H	L	L	L
9	H	L	L	H

BI-QUINARY (5-2) (See Note B)

COUNT	OUTPUTS			
	Q_A	Q_D	Q_C	Q_B
0	L	L	L	L
1	L	L	L	H
2	L	L	H	L
3	L	L	H	H
4	L	H	L	L
5	H	L	L	L
6	H	L	L	H
7	H	L	H	L
8	H	L	H	H
9	H	H	L	L

L = Low Level
H = High Level

Notes:
(A) Output Q_A is connected to input B for BCD count.
(B) Output Q_D is connected to input A for bi-quinary count.



QUAD LINE DRIVER

MC1488
276-2520

GENERAL DESCRIPTION

The 1488 is a monolithic quad line driver designed to interface data terminal equipment with data communications equipment in conformance with the specifications of EIA Standard No. RS-232C.

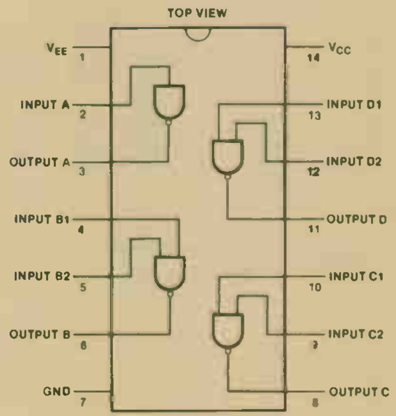
FEATURES

- Current Limited Output
  ±10 MA typ
- Power-Off Source Impedance
  300 Ohms min
- Simple Slew Rate Control with External Capacitor
- Flexible Operating Supply Range

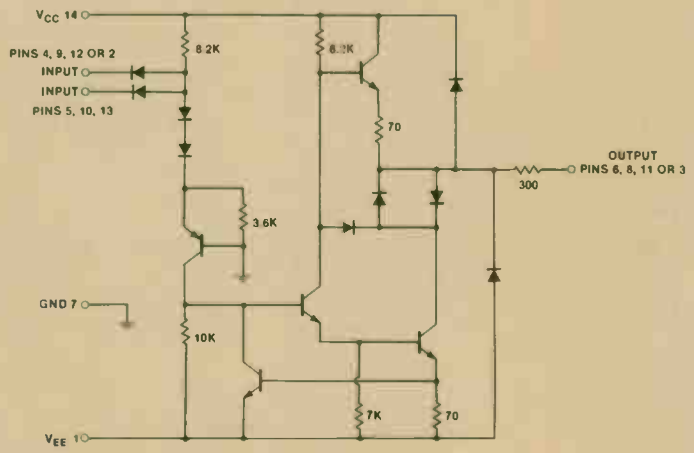
ABSOLUTE MAXIMUM RATINGS

Supply Voltage (V_{CC})	15 V
(V_{EE})	− 15 V
Output Signal Voltage (VO)	±15 V
Power (PD)	1 W
Input Current-Low Logic State (V_{IL} = 0) (See Fig. 8)	1.6 mA
Input Current-High Logic State (V_{IH} = 5.0V) (See Fig. 8)	10 μA
Output Resistance (V_{CC} = V_{EE} = 0/Vol = ±2.0V (See Fig. 11)	300Ω
Operating Temperature Range (TA)	0°C To + 75°C
Storage Temperature Range (T_{stg})	−65°C To +175°C

PIN CONNECTION



INTERNAL CIRCUIT
(¼ of Circuit Shown)



TYPICAL CHARACTERISTICS

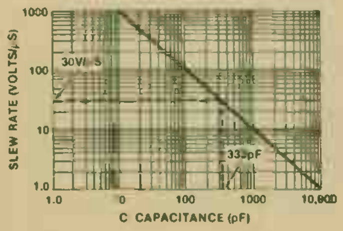


Figure 1—Slew Rate vs Capacitance for I_{SC} = 10mA

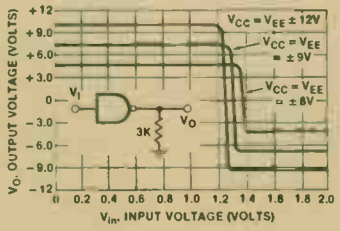


Figure 3—Transfer Characteristics vs Power-Supply Voltage

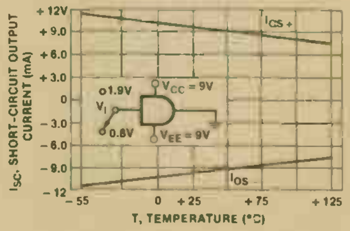


Figure 4—Short-Circuit Output Current vs Temperature

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TYPICAL CHARACTERISTICS (Cont'd)

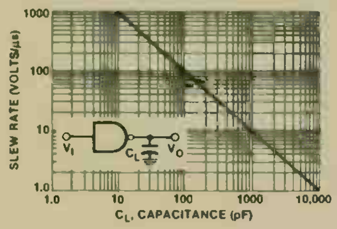


Figure 5—Output Slew Rate vs Load Capacitance

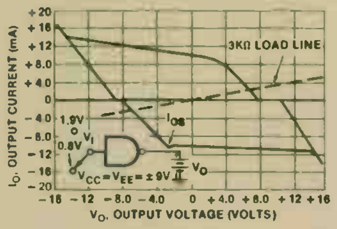


Figure 6—Output Voltage and Current-Limiting Characteristics

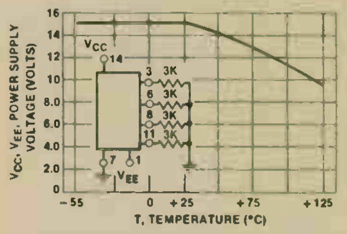
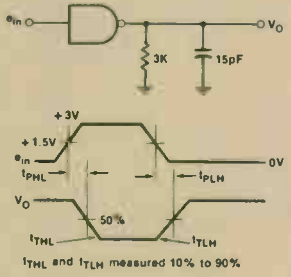


Figure 7—Maximum Operating Temperature vs Power-Supply Voltage



Switching Response

TEST CIRCUITS

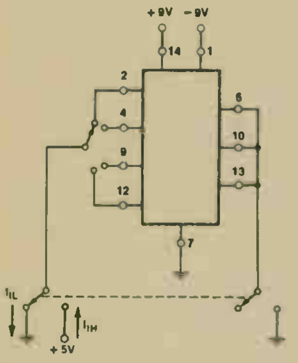


Figure 8— Input Current

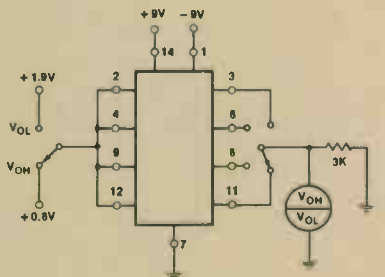


Figure 9— Output Voltage

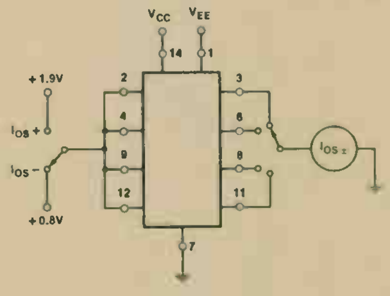


Figure 10— Output Short-Circuit Current

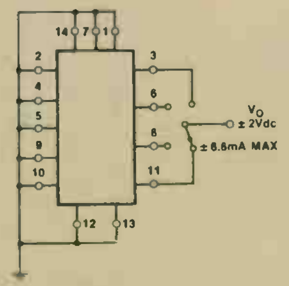


Figure 11— Output Resistance (Power-Off)

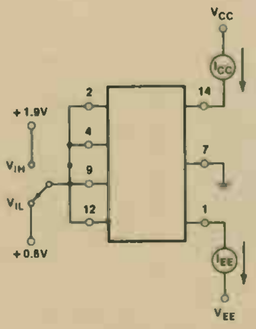


Figure 12— Power-Supply Currents

MC1488 276-2520

APPLICATIONS INFORMATION

The Electronic Industries Association (EIA) RS232C specification detail the requirements for the interface between data processing equipment and data communications equipment. This standard specifies not only the number and type of interface leads, but also the voltage levels to be used. The 1488 quad driver and its companion circuit, the 1489 quad receiver, provide a complete interface system between DTL or TTL logic levels and the RS232C defined levels. The RS232C requirements as applied to drivers are discussed herein.

The required driver voltages are defined as between 5 and 15-volts in magnitude and are positive for a logic "O" and negative for a logic "1". These voltages are so defined when the drivers are terminated with a 3000 to 7000-ohm resistor. The 1488 meets this voltage requirement by converting a DTL/TTL logic level into RS232C levels with one stage of inversion.

The RS232C specification further requires that during transitions, the driver output slew rate must not exceed 30 volts per microsecond. The inherent slew rate of the 1488 is much too fast for this requirement. The current limited output of the device can be used to control this slew rate by connecting a capacitor to each drive output. The required capacitor can be easily determined by using the relationship $C = I_{OS} \times \Delta T/\Delta V$ from which Figure 1 is derived. Accordingly, a 330-pF capacitor on each output will guarantee a worst case slew rate of 30 volts per microsecond.

The interface driver is also required to withstand an accidental short to any other conductor in an interconnecting cable. The worst possible signal on any conductor would be another driver using a plus or minus 15-volt, 500-mA source. The 1488 is designed to indefinitely withstand such a short to all four outputs in a package as long as the power-supply voltages are greater than 9.0 volts (i.e., $V_{CC} \geq 9.0$ V; $V_{EE} \leq -9.0$ V). In some power-supply designs, a loss of system power causes a low impedance on the power-supply outputs. When this occurs, a low impedance to ground would exist at the power inputs to the 1488 effectively shorting the 300-ohm output resistors to ground. If *all four* outputs were then shorted to plus or minus 15 volts, the power dissipation in these resistors would be excessive. Therefore, if the system is designed to permit low impedances to ground at the power-supplies of the drivers, a diode should be placed in each power-supply lead to prevent overheating in this fault condition. These two diodes, as shown in Figure 2, could be used to decouple all the driver packages in a system. (These same diodes will allow the 1488 to withstand momentary shorts to the ±25-volt limits specified in the earlier Standard RS232B.) The addition of the diodes also permits the 1488 to withstand faults with power-supplies of less than the 9.0 volts stated above.

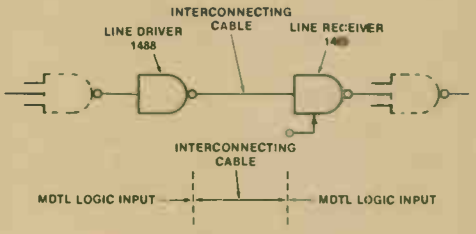
The maximum short-circuit current allowable under fault conditions is more than guaranteed by the previously mentioned 10 mA output current limiting.

OTHER APPLICATIONS

The 1488 is an extremely versatile line driver with a myriad of possible applications. Several features of the drivers enhance this versatility:

1. Output Current Limiting—this enables the circuit designer to define the output voltage levels independing of power-supplies and can be accomplished by diode clamping of the output pins. Figure 14 shows the 1488 used as a DTL to MOS translator where the high-level voltage output is clamped one diode above ground. The resistor divider shown is used to reduce the output voltage below the 300 mV above ground MOS input level limit.
2. Power-Supply Range—as can be seen from the schematic drawing of the drivers, the postive and negative driving elements of the device are essentially independent and do not require matching power-supplies. In fact, the positive supply can vary from a minimum seven volts (required for driving the negative pulldown section) to the maximum specified 15 volts. The negative supply can vary from approximately −2.5 volts to the minimum specified −15 volts. The 1488 will drive the output to within 2 volts of the postive or negative supplies as long as the current output limits are not exceeded. The combination of the current-limiting and supply-voltage features allow a wide combination of possible outputs within the same quad package. Thus if only a portion of the four drivers are used for driving RS232C lines, the remainder could be used for DTL to MOS or even DTL or DTL translation. Figure 15 shows one such combination.

TYPICAL APPLICATIONS



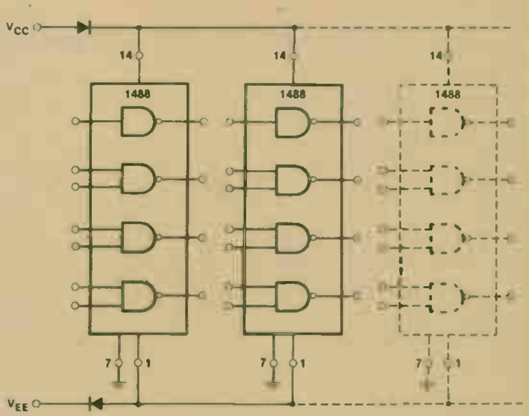


Figure 2—Power Supply Protection to Meet Power-Off Fault Conditions

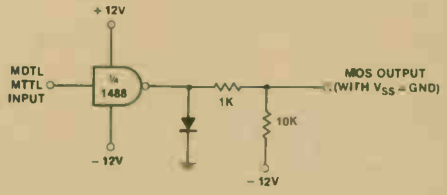


Figure 14—MDTL/MTTL-to-MOS Translator

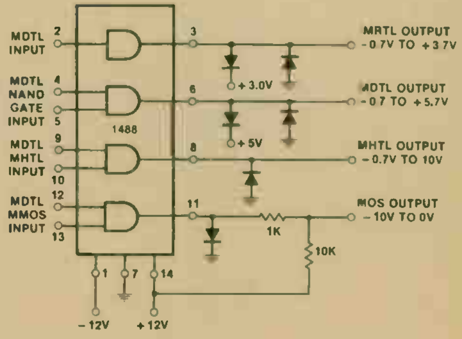
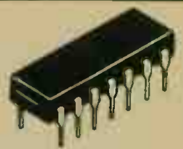


Figure 15—Logic Translator Applications

MC1489
276-2521

QUAD LINE RECEIVER



GENERAL DESCRIPTION

The 1489 monolithic quad line receiver is designed to interface data terminal equipment with data communications equipment in conformance with specificiations of EIA Standard No. RS-232C.

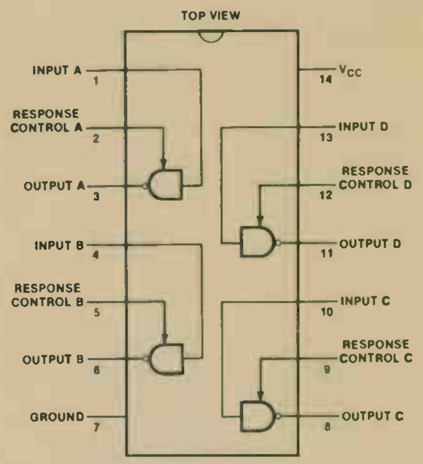
FEATURES

- Input Resistance—3.0 k to 7.0 K ohms
- Input Signal Range—±30 Volts
- Input Threshold Hysteresis Built In
- Response Control
  - a) Logic Threshold Shifting
  - b) Input Noise Filtering

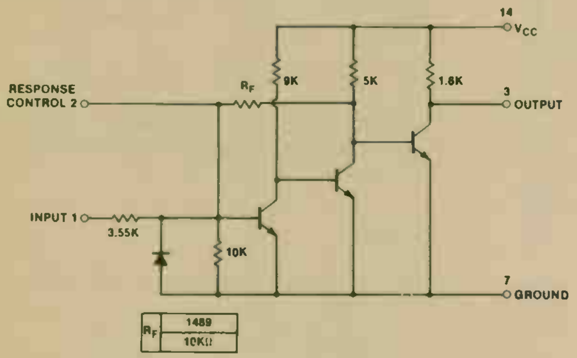
ABSOLUTE MAXIMUM RATINGS

Supply Voltage (V_{CC})	10 V
Input Voltage Range (V_{IR})	±30 V
Output Load Current (I_L)	20 mA
Power Dissipation (P_D)	1 W
Operating Temperature Range (TA)	0°C To +75°C
Storage Temperature Range (T_{stg})	−65°C To +175°C

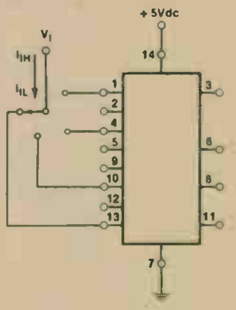
PIN CONNECTION



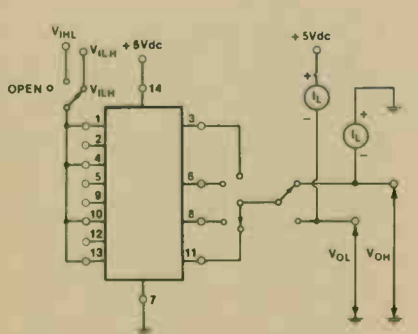
INTERNAL CIRCUIT
(¼ of Circuit Shown)



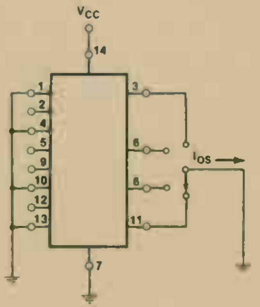
TEST CIRCUITS



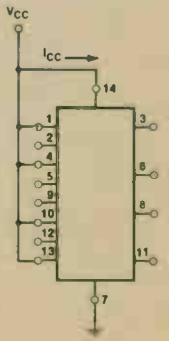
Input Current



Output Voltage and Input Threshold Voltage



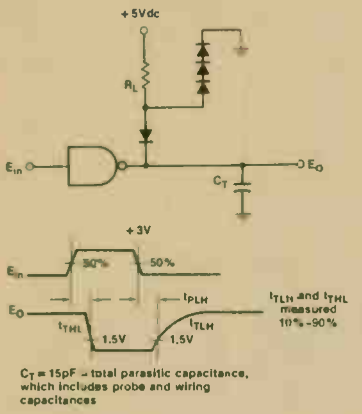
Output Short-Circuit Current



Power-Supply Current

MC1489 276-2521

TYPICAL CHARACTERISTICS



CT = 15pF – total parasitic capacitance, which includes probe and wiring capacitances

Switching Response

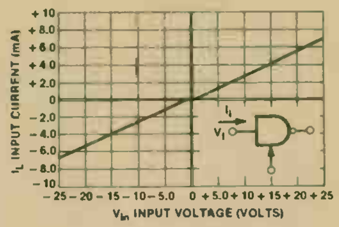


Figure 1—Input Current

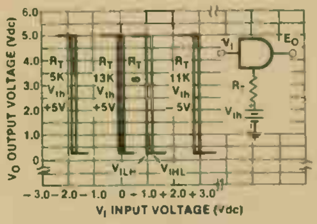


Figure 2—Input Threshold Voltage Adjustment

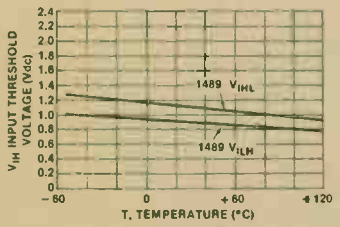


Figure 3—Input Threshold Voltage vs Temperature

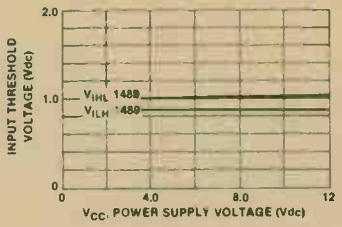


Figure 4—Input Threshold vs Power—Supply Voltage

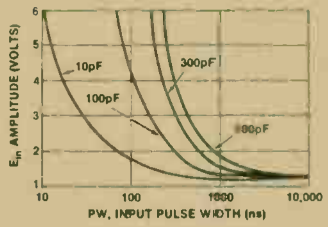


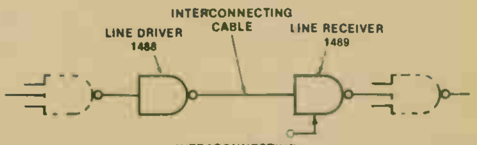
Figure 5—Turn-on Threshold vs Capacitance from Response Control Pin to Gnd

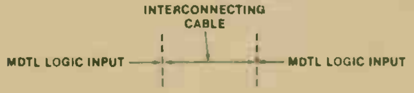
APPLICATIONS INFORMATION

The Electronic Industries Association (EIA) has released the RS-232C specification detailing the requirements for the interface between data processing equipment and data communications equipment. This standard specifies not only the number and type of interface leads, but also the voltage levels to be used. The 1488 quad driver and its companion circuit, the 1489 quad receiver, provide a complete interface system between DTL or TTL logic levels and the RS-232C defined levels. The RS-232C requirements as applied to receivers are discussed here. The required input impedance is defined as between 3000 ohms and 7000 ohms for input voltages between 3.0 and 25 volts in magnitude; and any voltage on the receiver input in an open circuit condition must be less than 2.0 volts in magnitude. The 1489 circuits meet these requirements with a maximum open circuit voltage of one V_{BE}.

The receiver shall detect a voltage between −3.0 and −25 volts as a logic "1" and input between +3.0 and +25 volts as a logic "0". On some interchange leads, an open circuit or power "OFF" condition (300 ohms or more to ground) shall be decoded as an "OFF" condition or logic "1". For this reason, the input hysteresis thresholds of the 1489 circuits are all above ground. Thus an open or grounded input will cause the same output as a negative of logic "1" input.

TYPICAL APPLICATIONS





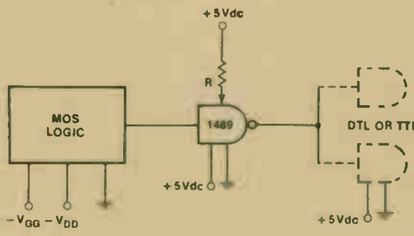
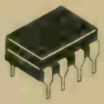


Figure 7—Typical Translator Application—MOS to DTL or TTL

TLC548
276-1796

8-BIT ANALOG TO DIGITAL CONVERTER



GENERAL DESCRIPTION

The TLC548 8-bit Analog-to-Digital Converter is a complete data acquisition system on a single chip. It is designed for serial interface with a microprocessor, peripheral, or digital logic circuitry through 3-state Data Output, Chip Select, and I/O Clock control signals.

FEATURES

- Versatile control logic
- An on-chip sample-and-hold circuit that can operate automatically or under microprocessor control
- A high-speed converter with differential high-impedance reference voltage inputs that facilitate ratiometric conversion and scaling, while isolating the conversion circuitry from logic and supply noises.
- The TLC548 provides low-error conversion of ±0.5 least-significant bit (LSB) in less than 17 microseconds.

ABSOLUTE MAXIMUM RATINGS

Supply Voltage, V_{CC} (See Note 1)	6.5 V
Input Voltage Range (Any Input)	-0.3 V to $V_{CC} + 0.3$ V
Output Voltage Range	-0.3 V to $V_{CC} + 0.3$ V
Operating free-air Temperature Range	-40°C to 85°C

NOTES: 1. All voltage values are with respect to network ground terminal with the REF- and GND terminal pins connected together, unless otherwise noted.

Overview of Operation

The TLC548 is a complete data acquisition system and it includes such functions as an internal System Clock, Sample-and-hold, 8-bit A/D converter, Data register, Control logic, I/O Clock, and a Chip Select ($\overline{CS}$).

These control inputs and a 3-state data output facilitate serial communications with a microprocessor or minicomputer. A conversion can be completed in a maximum of 17 microseconds, while total access and conversion time is a maximum of 25 microseconds.

The internal System Clock and I/O Clock are used independently and require no special speed or phase relationship. This simplifies the hardware and software control tasks for the device. Because of this independence and the internal generation of the System Clock, the microprocessor and software need only read the previous conversion result and start the conversion with the I/O Clock. The internal System Clock drives the "conversion-crunching" circuitry.

When $\overline{CS}$ is high, the Data Output pin is in a high-impedance condition and the I/O Clock pin is disabled.

This condition allows each of these pins to share a control logic point with its counterpart pin when additional TLC548 devices are used.

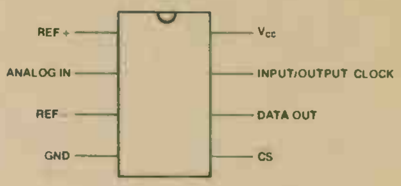
Typical Control Sequence

The control sequence has been designed to minimize the time and effort required to initiate conversion and obtain the conversion result.

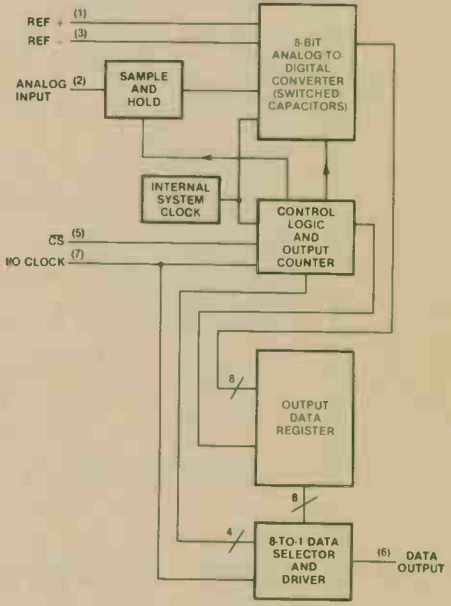
A typical control sequence consists of the following steps.

1. $\overline{CS}$ (Chip Select) is brought low.
   After a $\overline{CS}$ transition (from high to low), the internal circuitry of the TLC548 waits for two rising edges and then one falling edge of the internal System Clock before recognizing the transition. This delay minimizes errors caused by noise at the $\overline{CS}$ input. The most-significant bit (MSB) of the result of the previous conversion then appears on the Data Output pin.
2. The negative edges of the first four I/O Clocks shift out the 2nd, 3rd, 4th, and 5th most-significant bits of the result of the previous conversion.
3. The on-chip sample-and-hold begins sampling the analog input after the 4th falling edge.
   This operation basically involves the charging of internal capacitors to the voltage level of the analog input.

PIN CONNECTION



BLOCK DIAGRAM

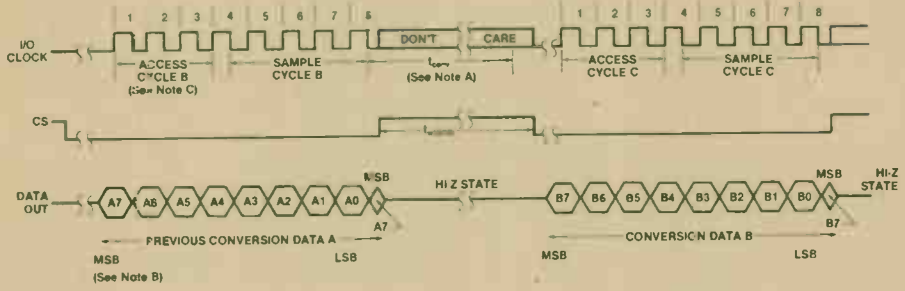


Typical Control Sequence (cont.)

4. Three more clock cycles are applied to the I/O pin.
   The 6th, 7th, and 8th bits of the result of the previous conversion are shifted out on the negative edges of these clock cycles.
5. The 8th and final clock cycle is applied to the I/O Clock pin.
   The falling edge of this clock cycle completes the analog sampling process and initiates the hold function.
6. Conversion is performed during the next 36 System Clock cycles.
   After the final I/O Clock cycle, $\overline{CS}$ must go high or the I/O Clock must remain low for at least 36 System Clock cycles to allow for the conversion function.

The operating sequence is illustrated below.

Operating Sequence



NOTES: A. The conversion cycle is initiated with the trailing edge of the 8th I/O Clock pulse after $\overline{CS}$ goes low.

B. The most-significant bit (MSB) is then placed on the DATA OUT pin after $\overline{CS}$ is brought low. The remaining seven bits (A6–A0) are shifted out on the first seven I/O Clock falling edges.

C. To minimize errors caused by noise on the $\overline{CS}$ signal, the internal circuitry waits for two rising edges and then one falling edge of the Internal System Clock (1.4 μs at 2 MHz) after a Chip Select transition before responding to control input signals. Therefore, no attempt should be made to shift out conversion data until the minimum Chip Select setup time has elapsed.

Keeping $\overline{CS}$ Low During Multiple Conversions

$\overline{CS}$ can be kept low during periods of multiple conversions.

If $\overline{CS}$ is taken high, it must remain high until the end of the conversion. Otherwise, a valid falling edge of $\overline{CS}$ will cause a reset condition, aborting the conversion in process.

Stopping an Ongoing Conversion

An ongoing conversion can be stopped and a new conversion started by performing steps 1 thru 6 listed under typical control sequence before the 36 System Clock cycles occur. Such an action yields the conversion result of the previous conversion, not the ongoing conversion.

Starting Conversion at a Specific Time

For certain applications such as strobing, it is necessary to start conversion at a specific point in time. The TLC548 will accommodate these applications.

To trigger a conversion at a specific point in time, control hardware or software must manipulate the 8th I/O clock cycle. The sequence for a conversion at a desired instant is:

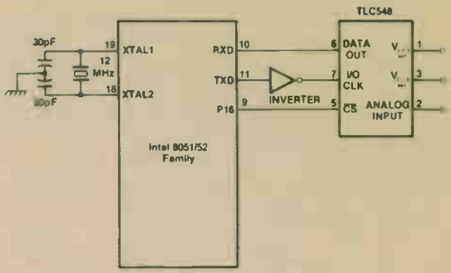
I. The on-chip sample-and-hold operation waits for the falling edge of the 4th I/O clock cycle and begins sampling. The TLC548 follows the analog input but does not hold it yet.

II. When the 8th I/O clock cycle is high, control hardware or software must keep it high until the desired instant.

III. At the desired instant, control hardware or software must lower the clock. The falling edge of the 8th I/O clock cycle causes the input to be held and initiates the conversion.

TLC 548 276-1796

Intel 8051/52 Serial Port Interface Operating Sequence



The serial data for the conversion result from the TLC548 enters the microprocessor through the RXD pin. By using the inverted TXD shift clock as an I/O Clock for the TLC548, previous conversion data can be transferred to the microprocessor.

The serial port's Mode 0 state is used to permit 8-bit transmission and reception. The TLC548 sends the most-significant bit of the conversion result first; the serial buffer receives this bit as the least-significant bit. The software then reverses the conversion bits and places them in the proper order.

The timing consists of the following three major phases:

1. After $\overline{\text{CS}}$ goes low, eight I/O Clock cycles access and sample the new analog input. At the same time, I/O Clock falling edges bring out the previous conversion result.
2. Conversion begins when the eighth I/O Clock goes low. Conversion requires 36 internal System Clock cycles after the eighth I/O Clock goes low. The maximum conversion time is 17 microseconds.
3. Eight falling edges of the I/O Clock bring out the previous conversion result.

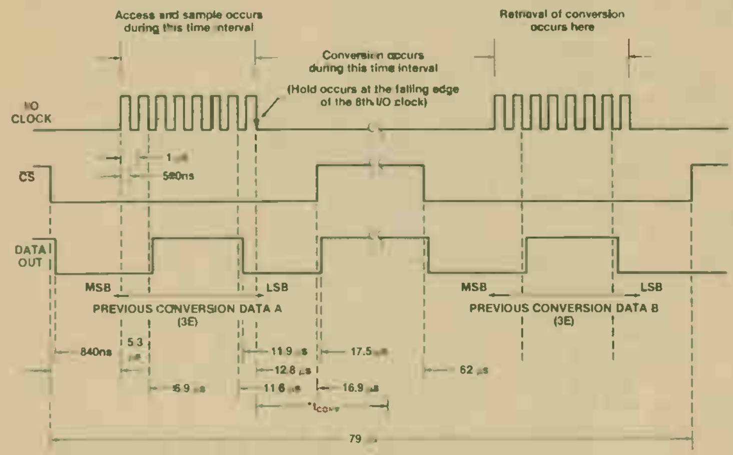
Interface Control Software

```
                            ;
       ACALL SR549D         ; Access, sample and hold new analog
                            ; signal.
                            ;
                            ; Delay must occur here to allow the
                            ; A/D chip to complete conversion. The
                            ; delay must allow 36 A/D chip internal
                            ; System Clock cycles to occur.
                            ; Conversion requires maximum of 17
                            ; microseconds.
                            ;
       ACALL SR549D         ; Access, sample and hold new analog
                            ; signal. Bring out previoous conversion
                            ; result.
                            ; Serial port read reverses data
                            ; conversion bits coming to micro-
                            ; processor so that they are in the following
                            ; order: b0(LSB), b1, b2, b3, b4, b5, b6
                            ; b7(MSB). These bits and Carry bit
                            ; (C) are presented in the following
                            ; instruction comments so the reader
                            ; understands the technique used to
                            ; place bits in proper order.
                            ;
       RLC A                ; 6543210C 7; b7 is now in Carry
       RLC A                ; 543210C7 6; b6 is now in Carry
       MOV ACC.1,C          ; 54321067 6; put b6 into ACC.1
       MOV C,ACC.2          ; 54321067 0; put b0 into C
       RLC A                ; 43210670 5; b5 is now in Carry
       MOV ACC.3,C          ; 43215670 5; put b5 into ACC.3
       MOV C,ACC.4          ; 43215670 1; put b1 into C
       RLC A                ; 32156701 4; b4 is now in Carry
       MOV ACC.5,C          ; 32456701 4; put b4 into ACC.5
       MOV C,ACC.6          ; 32456701 2; put b2 into C
       RLC A                ; 24567012 3; b3 is now in Carry
       MOV ACC.7,C          ; 34567012 3; put b3 into ACC.7
       RL A                 ; 45670123  ; prepare for SWAP A
       SWAP A               ; 01234567  ; bits ordered correctly
                            ; Conversion result is in Accumulator
                            ;
                            ; Subroutine ACALL
SR549D CLR P1.6             ; Lower Chip Select
       ORL SCON,#10H        ; Set REN
       ANL SCON,#FEH        ; Reset R1
       JNB SCON.0,RCV       ; R1 flag not set; branch
                            ; until reception is complete.
       CPL P1.6             ; Raise Chip Select
       RET                  ; Conversion is in SBUF
       END                  ;
```

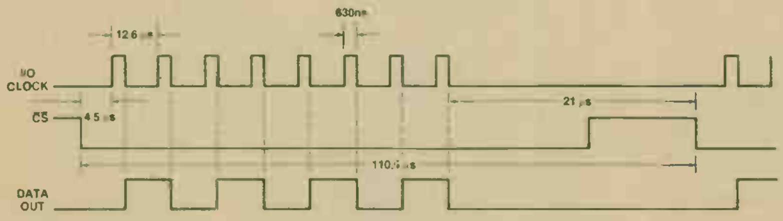
TLC 548 276-1796

The Operating Sequence (cont.)

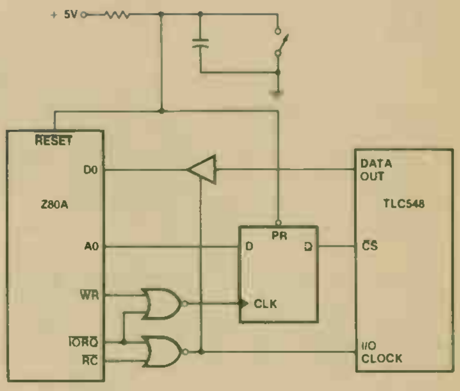
This interface is ideal if the Intel microprocessor's serial port does not have to be used for another purpose. However, if another purpose is required by the serial port, the microprocessor's serial port may be multiplexed so that both the TLC548 and the additional purpose may be accommodated.


Access and sample occurs during this time interval
Conversion occurs during this time interval
Retrieval of conversion occurs here
(Hold occurs at the falling edge of the 8th I/O clock)
I/O CLOCK
CS
DATA OUT
1 μs
580ns
MSB
LSB
PREVIOUS CONVERSION DATA A (3E)
PREVIOUS CONVERSION DATA B (3E)
840ns
5.3 μs
6.9 μs
11.9 μs
12.8 μs
11.6 μs
17.5 μs
16.9 μs
62 μs
*t_conv
79 μs

Circuit Timing for Intel 8051/52



Microprocessor Interface



Z80A Interface

The Z80A interface is an economical solution, offering efficient control software and communications with the TLC548.

Required Software

A simple program segment that reads in a previous conversion result and starts a conversion is shown below. Placing this program segment in a loop makes it possible to initiate a conversion and read previous conversion results in 111 microseconds.

```
        LD C,08H          ; Load bit counter
        LD B,00H          ; Initialize result register
        OUT (CSLOW),A     ; Bring Chip Select low
LOOP    RLC B             ; Rotate result register left
        IN A,(BIT)        ; Read in a bit & shift next
        AND 01H           ; Mask off bit 0
        OR B              ; Or new bit with result
        LD B,A            ; Store in result register
        DEC C             ; Decrement bit counter
        JP NZ,LOOP        ; Get another bit if not zero
        OUT (CSHIGH),A    ; Bring Chip Select high
```

The Operating Sequence

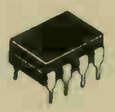
Latching in a low from address bit A0 brings Chip Select low. Execution of an IN instruction causes $\overline{RD}$ and $\overline{IORQ}$ to become active, generating one I/O Clock pulse. A data bit is read in just before the falling edge of the I/O Clock. The falling edge shifts out the next data bit.

Sampling of analog input begins at the falling edge of the 4th I/O Clock and continues until the falling edge of the 8th I/O Clock. At that time, conversion begins; conversion requires 17 microseconds.

$\overline{CS}$ is brought high after the 8th I/O Clock to disable all inputs and outputs so that conversion may proceed undisturbed.

TLC555
276-1718

TIMER



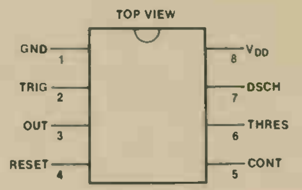
GENERAL DESCRIPTION

The TLC555 is a monolithic timing circuit fabricated using the Lin CMOS™ process. Due to its high-impedance inputs (typically $10^{12}\Omega$), it is capable of producing accurate time delays and oscillations while using less expensive, smaller timing capacitors. The TLC555 achieves both monostable (using one resistor and one capacitor) and astable (using two resistors and one capacitor) operation. In addition, 50% duty cycle astable operation is possible using only a single resistor and one capacitor. The Lin CMOS™ process allows the TLC555 to operate at frequencies up to 2 MHz and be fully compatible with CMOS, TTL, and MOS logic. It also provides very low power consumption (typically 1 mW at V_{DD} = 5V) over a wide range of supply voltages ranging from 2 volts to 18 volts.

Threshold and trigger levels are normally two-thirds and one-third respectively of V_{DD}. These levels can be altered by use of the control voltage terminal. When the trigger input falls below trigger level, the flip-flop is set and the output goes high. If the trigger input is above the trigger level and the threshold input is above the threshold level, the flip-flop is reset and the output is low. The reset input can override all other inputs and can be used to initiate a new timing cycle. When the reset input goes low, the flip-flop is reset and the output goes low. Whenever the output is low, a low impedance path is provided between the discharge terminal and ground.

While the complementary CMOS OUTPUT is capable of sinking over 100 mA and sourcing over 10 mA, the TLC555 exhibits greatly reduced supply current spikes during output transitions.

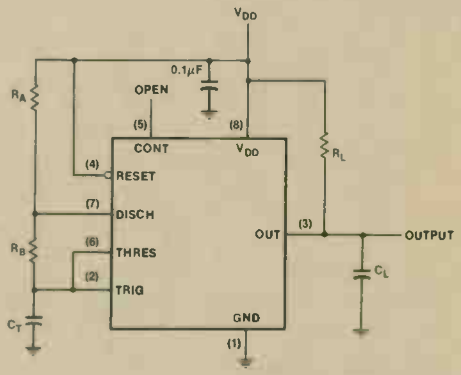
PIN CONNECTION



FEATURES

- Very low power consumption (1 mW typical at V_{DD} = 5 V)
- Capable of very high-speed operation (2 mHz in a stable operation)
- Complementary CMOS output capable of swinging rail to rail
- High output-current capability (sink 100 mA typical) (soucre 10 mA typical)
- Output fully CMOS, TTL, and MOS-compatible
- Low supply current reduces spikes during output transitions
- High impedance input $10^{12}\Omega$ typical)
- Single supply operation from 2 to 18 volts

TYPICAL APPLICATION



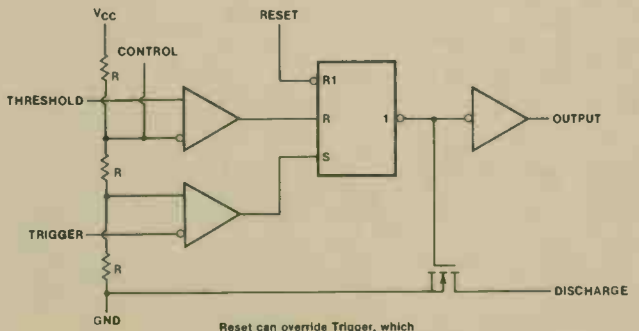
Circuit for Astable Operation

ABSOLUTE MAXIMUM RATINGS

Supply Voltage (V_{DD}) (See Note 1)	18 V
Input Voltage Range (Any Input)	−03 V To 18 V
Power Dissipation (mW)	600mW
Operating Temperature Range	0°C To 70°C
Storage Temperature Range	−65°C To 150°C

NOTES: 1. All voltage values are with respect to network ground terminal.

BLOCK DIAGRAM



Reset can override Trigger, which can override Threshold.

8 WATT AUDIO POWER AMPLIFIER

383
276-703

GENERAL DESCRIPTION

The 383 is a cost effective, high power amplifier suited for automotive applications. High current capability (3.5A) enables the device to drive low impedance loads with low distortion. The 383 is current limited and thermally protected. The 383 comes in a 5-pin TO-220 package.

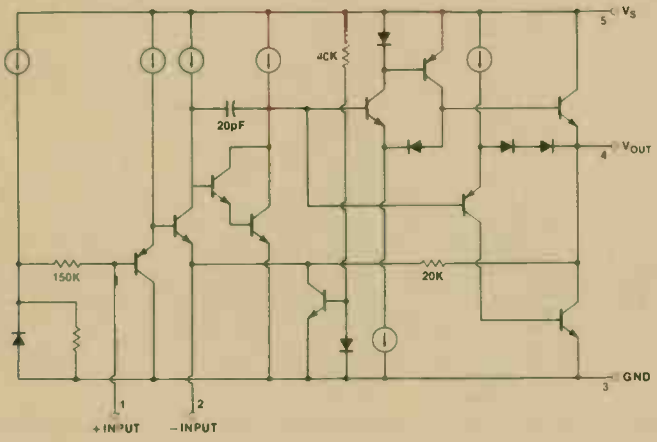
FEATURES

- High peak current capability (3.5A)
- Large output voltage swing
- Externally programmable gain
- Wide supply voltage range (5V—20V)
- Few external parts required
- Pin for pin compatible with TDA2002
- Low distortion
- High input impedance
- No turn-on transients
- Low noise
- Short circuit protected

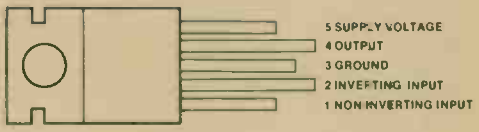
ABSOLUTE MAXIMUM RATINGS

Peak Supply Voltage (50 ms)	25V
Operating Supply Voltage	20V
Output Current	
Repetitive	3.5A
Non-repetitive	4.5A
Input Voltage	±0.5V
Power Dissipation	15W
Operating Temperature	0 to +70°C
Storage Temperature	−60 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

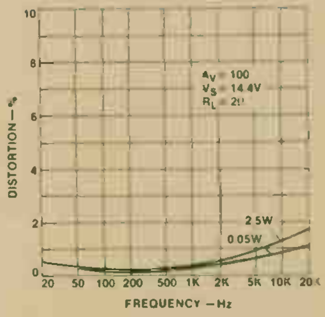
INTERNAL CIRCUIT



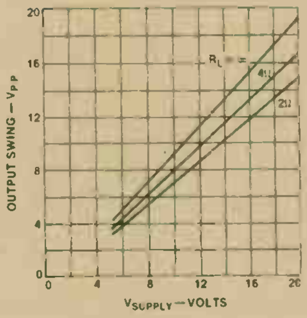
PIN CONNECTION



TYPICAL CHARACTERISTICS

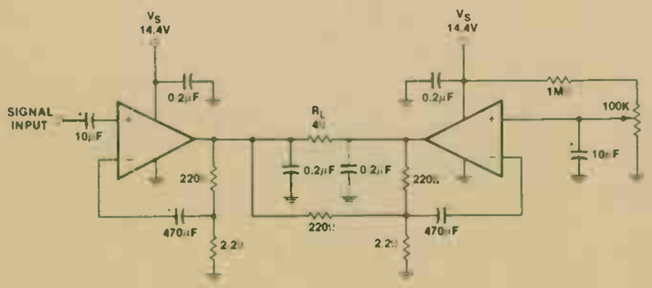


Distortion vs Frequency

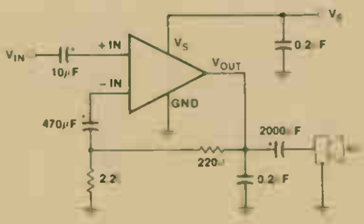


Output Swing vs Supply Voltage

TYPICAL APPLICATIONS



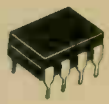
16W Bridge Amplifier



Basic Audio Amp

386
276-1731

LOW VOLTAGE AUDIO POWER AMPLIFIER

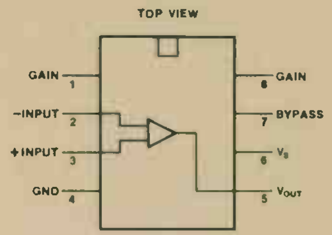


GENERAL DESCRIPTION

The 386 is a power amplifier designed for use in low voltage consumer applications. The gain is internally set to 20 to keep external part count low, but the addition of an external resistor and capacitor between pins 1 and 8 will increase the gain to any value up to 200.

The inputs are ground referenced while the output is automatically biased to one half the supply voltage. The quiescent power drain is only 18 milli-watts when operating from a 6 volt supply, making the 386 ideal for battery operation.

PIN CONNECTION



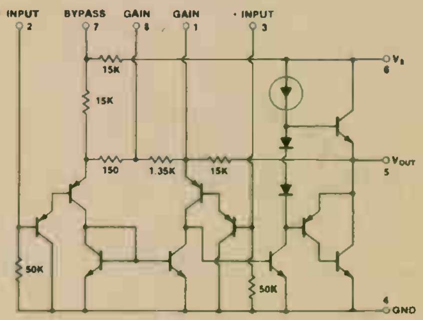
FEATURES

- Battery operation
- Minimum external parts
- Wide supply voltage range 4-12 volts
- Low quiescent current drain 3 mA
- Voltage gains from 20 to 200
- Ground referenced input
- Self-centering output quiescent voltage
- Low distortion
- Eight pin dual-in-line package

APPLICATIONS

- AM-FM radio amplifiers
- Portable tape player amplifiers
- Intercoms
- TV sound systems
- Line drivers
- Ultrasonic drivers
- Small servo drivers
- Power converters

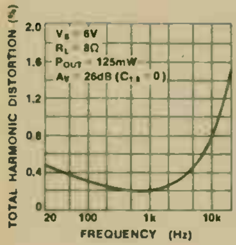
INTERNAL CIRCUIT



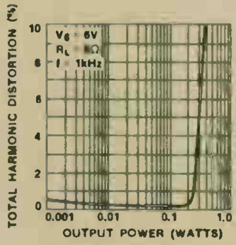
ABSOLUTE MAXIMUM RATINGS

Supply Voltage	15V
Package Dissipation 8 Pin DIP	660 mW
Input Voltage	±0.4V
Junction Temperature	+150°C
Operating Temperature	0 to +70°C
Storage Temperature	−65 to +150°C
Lead Temperature (Soldering, 10 seconds)	+300°C

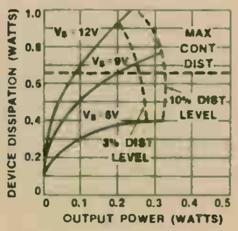
TYPICAL CHARACTERISTICS



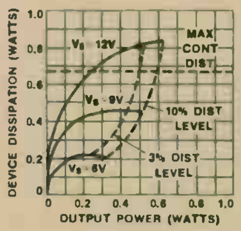
Distortion vs Frequency



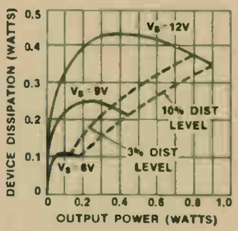
Distortion vs Output Power



Device Dissipation vs Output Power—4Ω Load

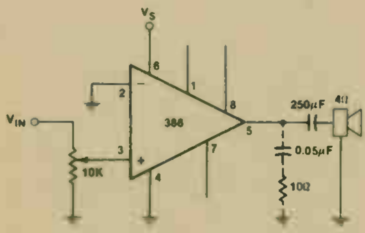


Device Dissipation vs Output Power—8Ω Load

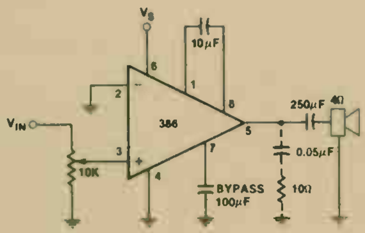


Device Dissipation vs Output Power—16Ω Load

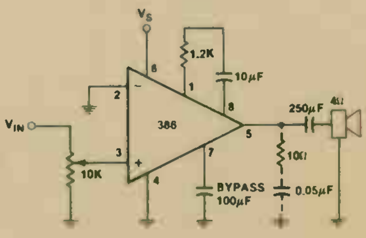
TYPICAL APPLICATIONS



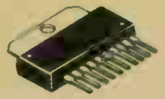
Amplifier with Gain = 20
(Minimum Parts)



Amplifier with Gain = 50



Amplifier with Gain = 200



5.8W AUDIO POWER AMPLIFIER

TA7205AP
276-705

GENERAL DESCRIPTION

The TA7205AP is a monolithic audio power amplifier with a built in thermal shut-down circuit designed for car radio and stereo applications.

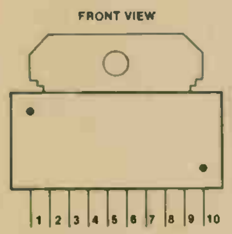
FEATURES

- Low distortion
  THD=0.15% (Typ.) (@ P_{OUT}=1W, G_V=55dB)
  THD=0.07% (Typ.) (@ P_{OUT}=1W, G_V=44dB)
- Operating supply voltage range: V_{CC}=9∼18V
- 'PCT' process to insure low noise characteristic
- Current limiting for short-circuit protection
- Built in thermal shut-down circuit
- Built in surge voltage protection circuit

ABSOLUTE MAXIMUM RATINGS

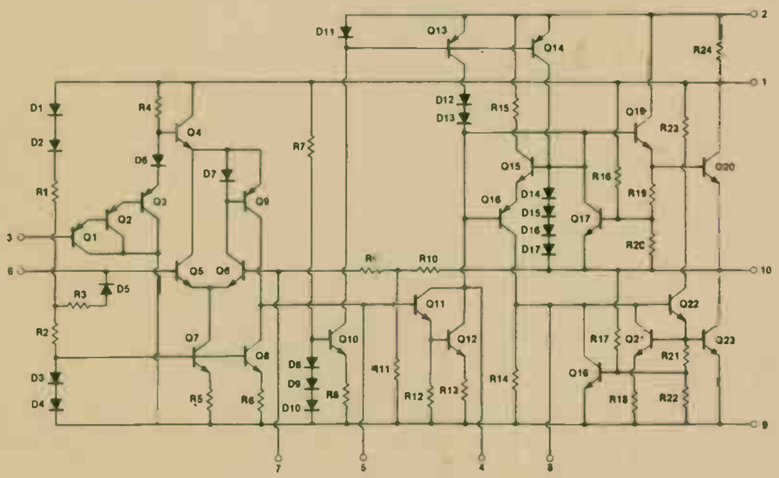
Operating Supply Voltage(V_{CC})	18V
Quiescent Supply Voltage (V_{CCQ})	25V
Output Peak Current (I_O)	4.5A
Quiescent Current (I_{CCQ})	80mA
Operating Temperature	−20 to +75°C
Storage Temperature	−55 to +150°C

PIN CONNECTION

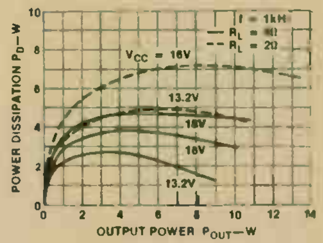


PIN	FUNCTION
1	V+
2	BOOTSTRAP
3	DECOUPLING
4	PHASE COMPENSATION
5	PHASE COMPENSATION
6	INPUT
7	NEGATIVE FEEDBACK
8	PHASE COMPENSATION
9	GROUND
10	OUTPUT

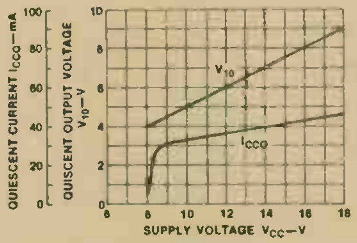
INTERNAL CIRCUIT



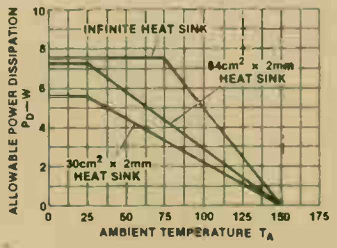
TYPICAL CHARACTERISTICS



Power Dissipation
vs Output Power

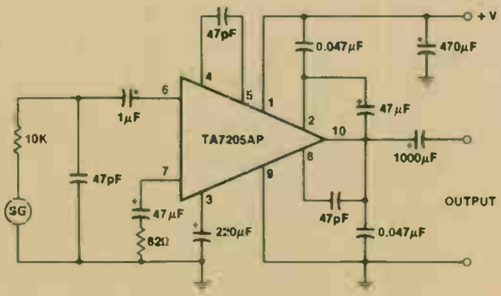


Quiescent Current and
Output Voltage vs
Supply Voltage



Allowable Power Dissipation
vs Ambient Temperature

TYPICAL APPLICATION



5 Watt Audio Amplifier

TDA1520A
276-1305

20W HI-FI AUDIO AMPLIFIER

GENERAL DESCRIPTION

The TDA1520A is a monolithic integrated hi-fi audio power amplifier designed for asymmetrical or symmetrical power supplies. The circuit can deliver output power up to 20 watts into 4 and 8 ohm speakers and is intended for use in audio and television.

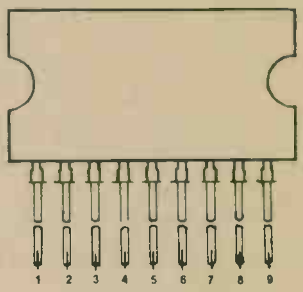
FEATURES

- Low input offset voltage
- Output stage with low cross-over distortion
- A.C. short-circuit protected
- Very low internal thermal resistance
- Thermal protection
- Very low intermodulation distortion
- Very low transient intermodulation distortion

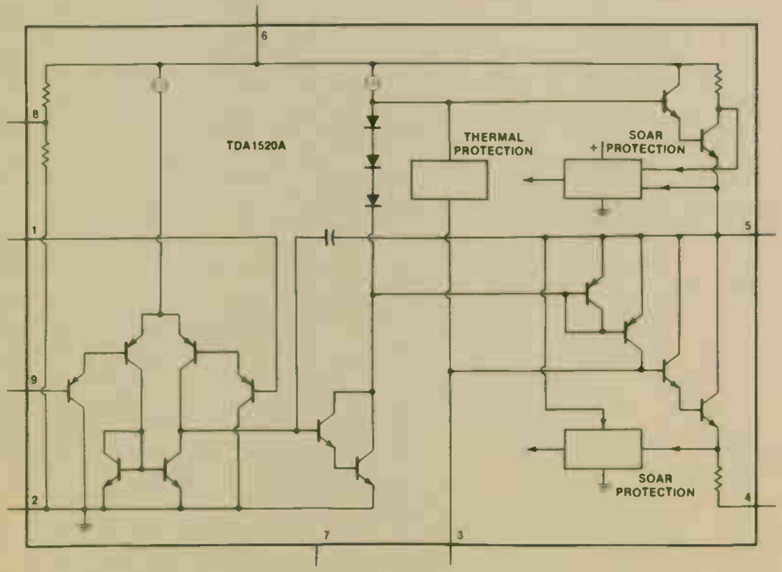
ABSOLUTE MAXIMUM RATINGS

Supply voltage (VP)	50 V
Total quiescent current at Vp = 33 V (Itot)	70 mA
Output power at d_{tot} = 0.5% sine-wave power	
Vp = 33 V; R_L = 4 Ω (PO)	20 W
Vp = 42 V; R_L = 8 Ω (PO)	20 W
Closed-loop voltage gain (externally determined) (Gc)	30 dB
Input resistance (externally determined by $R_{8\text{-}1}$) (Ri)	20 kΩ
Signal-to-noise ratio at P_o = 50 mW (S/N)	76 dB
Supply voltage ripple rejection at f = 100 Hz (RR)	60 dB

PIN CONNECTION



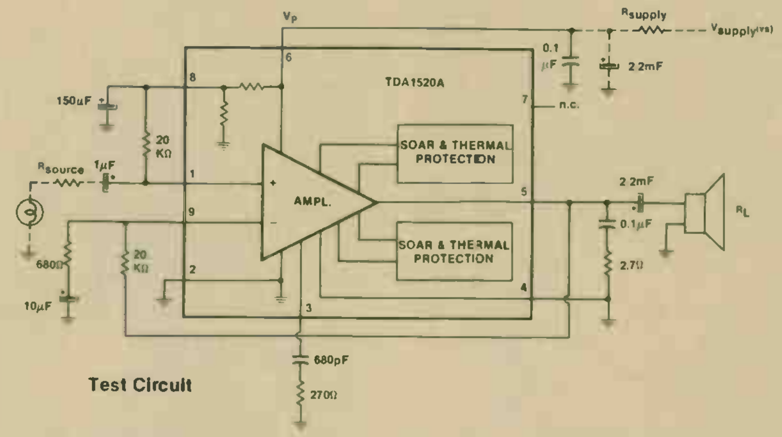
BLOCK DIAGRAM



PIN	FUNCTION
1	Non-inverting input
2	Input ground (substrate)
3	Compensation
4	Negative supply (ground)
5	Output
6	Positive supply (V_p)
7	Not connected
8	Ripple rejection
9	Investing input (feedback)

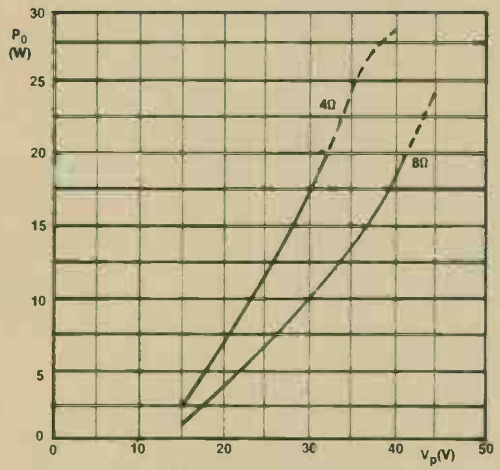
TDA1520A 276-1305

TYPICAL APPLICATION

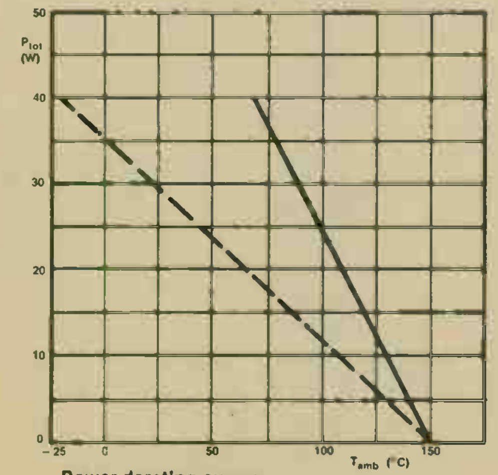


Test Circuit

TYPICAL CHARACTERISTICS

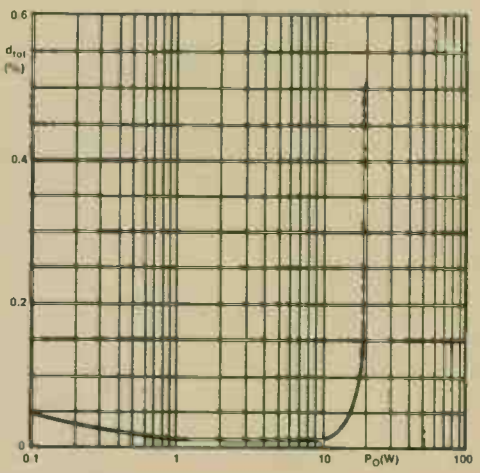


Output power (P_o) versus supply voltage (V_p) at f = 1 kHz, d_{tot} = 0.5%, G_v = 30 dB.

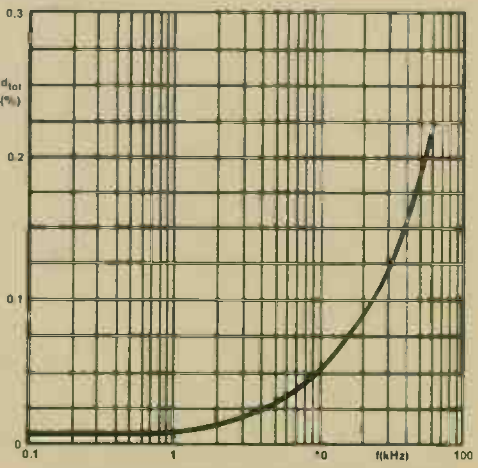


Power derating curves.
——— mounted on infinite heatsink.
– – – mounted on heatsink of 2,3 K/W.

TYPICAL CHARACTERISTICS



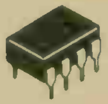
Total harmonic distortion (d_{tot}) versus output power (P_o) at V_p = 33 V, R_L = 4 Ω, f = 1 kHz.



Total harmonic distortion (d_{tot}) versus operating frequency (f) at V_p = 33 V, R_L = 4 Ω, P_o = 10 W (constant).

353
276-1715

WIDE BANDWIDTH DUAL JFET INPUT OPERATIONAL AMPLIFIER



GENERAL DESCRIPTION

These devices are low cost, high speed, dual JFET input operational amplifiers with an internally trimmed input offset voltage (BI-FET II™) technology). They require low supply current yet maintain a large gain bandwidth product and fast slew rate. In addition, well matched high voltage JFET input devices provide very low input bias and offset currents.

These amplifers may be used in applications such as high speed integrators, fast D/A converters, sample and hold circuits and many other circuits requiring low input offset voltage, low input bias current, high input impedance, high slew rate and wide bandwidth. The devices also exhibit low noise and offset voltage drift.

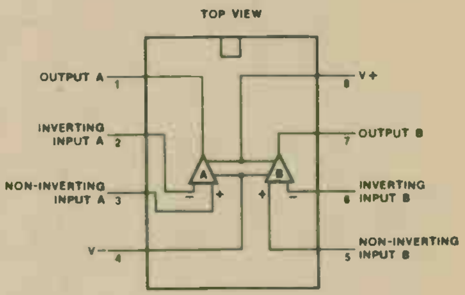
FEATURES

- Internally trimmed offset voltage = 2 mV
- Low input bias current = 50pA
- Low input noise voltage = $16nV/\sqrt{Hz}$
- Low input noise current = $0.01 pA/\sqrt{Hz}$
- Wide gain bandwidth = 4 MHz
- High slew rate = 13 V/μs
- Low supply current = 3.6 mA
- High input impedance = $10^{12}\Omega$
- Low total harmonic distortion $A_V = 10$, $R_L = 10k$, $V_O = 20$ Vp-p, BW = 20 Hz—20kHz = <0.02%
- Low 1/f noise corner = 50 Hz
- fast settling time to 0.0% = 2μs

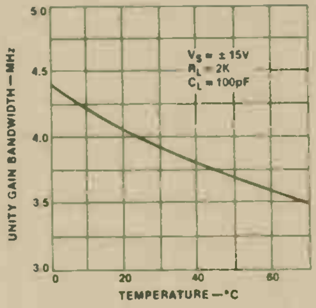
ABSOLUTE MAXIMUM RATINGS

Supply Voltage	±18V
Power Dissipation	500 mW
Differnetial Input Voltage	±30V
Input Voltage Range	±15V
Output Short Circuit Duration	Continuous
$T_{j(MAX)}$	115°C
Operating Temperature Range	0 to 70°C
Storage Temperature Range	−65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

PIN CONNECTION

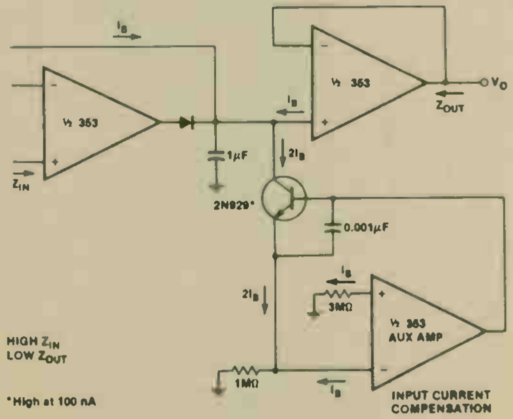


TYPICAL CHARACTERISTICS

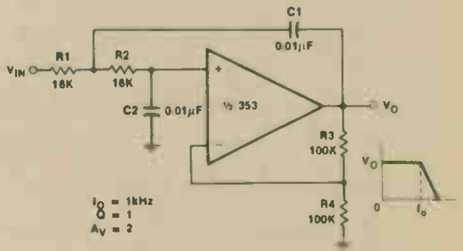


Unity Gain Bandwidth vs Temperature

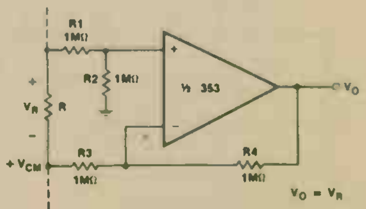
TYPICAL APPLICATIONS



Low Drift Peak Detector

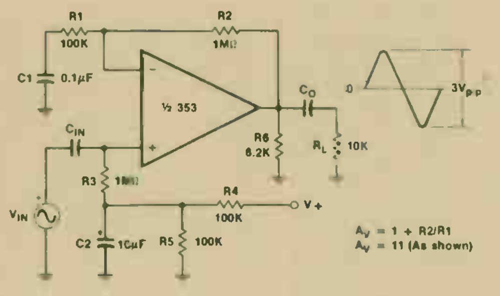


DC Coupled Low-Pass RC Active Filter



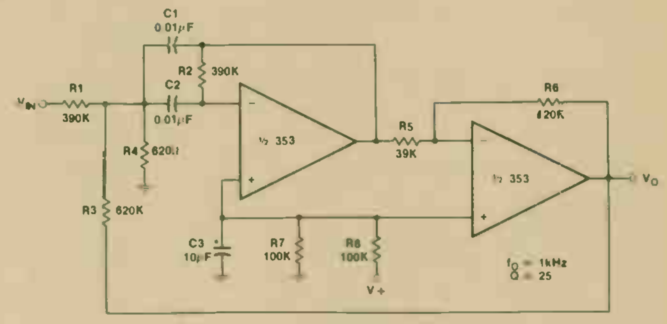
Ground Referencing A Differential Input Signal

TYPICAL APPLICATIONS (Cont'd)

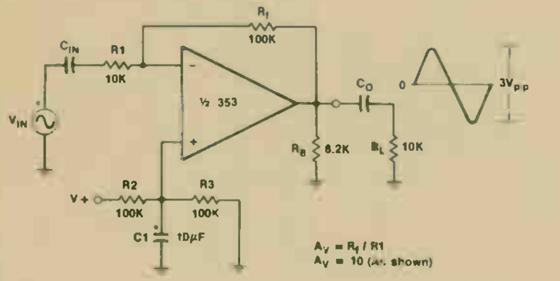


$A_V = 1 + R2/R1$
$A_V = 11$ (As shown)

AC Coupled Non-Inverting Amplifier

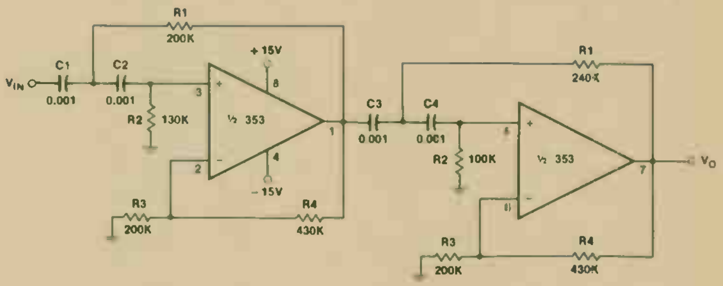


Bandpass Active Filter

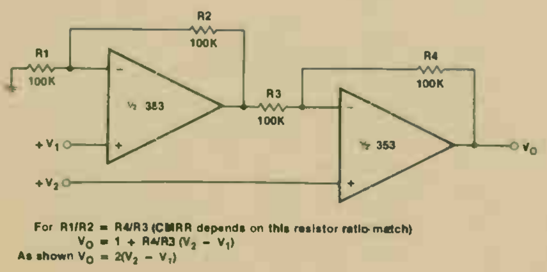


$A_V = R_f / R1$
$A_V = 10$ (As shown)

AC Coupled Inverting Amplifier

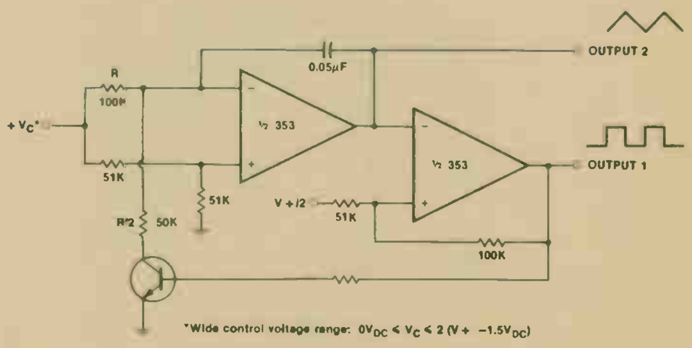


Fourth Order High Pass Butterworth Filter



For R1/R2 = R4/R3 (CMRR depends on this resistor ratio match)
$V_O = 1 + R4/R3\ (V_2 - V_1)$
As shown $V_O = 2(V_2 - V_1)$

High Input Z, DC Differential Amplifier

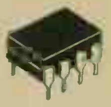


*Wide control voltage range: $0V_{DC} \le V_C \le 2\ (V+\ -1.5V_{DC})$

Voltage Controlled Oscillator (VCO)

741
276-007

OPERATIONAL AMPLIFIER



GENERAL DESCRIPTION

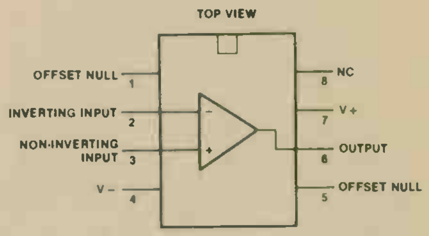
The 741 series are general purpose operational amplifiers which feature improved performance over industry standards.

The amplifiers offer many features which make their application nearly foolproof: overload protection on the input and output. no latch-up when the common mode range is exceeded. as well as freedom from oscillations.

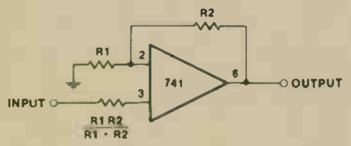
ABSOLUTE MAXIMUM RATINGS

Supply Voltage	±16V
Power Dissipation	500 mW
Differential Input Voltage	±30V
Input Voltage	±15V
Output Short Circuit Duration	Indefinite
Operating Temperature Range	0 to +70°C
Storage Temperature Range	−65 to +150°C
Lead Temperature (Soldering. 10 seconds)	300°C

PIN CONNECTION

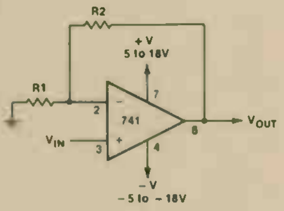


TYPICAL APPLICATIONS



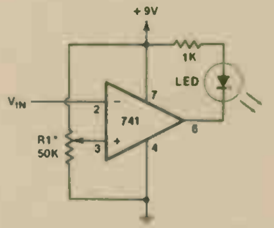
GAIN	R1	R2	BW	R_{IN}
10	1K	9K	100kHz	400MΩ
100	100Ω	9.9K	10kHz	280MΩ
1000	100Ω	99.9K	1kHz	80MΩ

Non-Inverting Amplifier



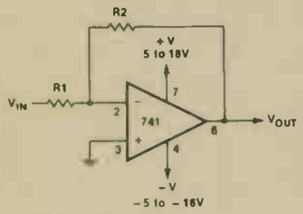
$V_{OUT} = V_{IN} (1 + R2/R1)$

Non-Inverting Amplifier



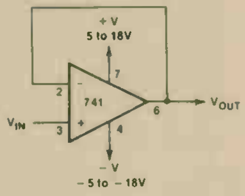
*R1 sets the voltage detection threshold (up to +9V).
When V_{IN} exceeds the threshold (reference), the LED glows

Level Detector



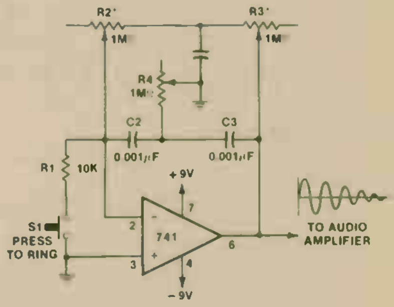
$V_{OUT} = -V_{IN} (R2/R1)$

Inverting Amplifier



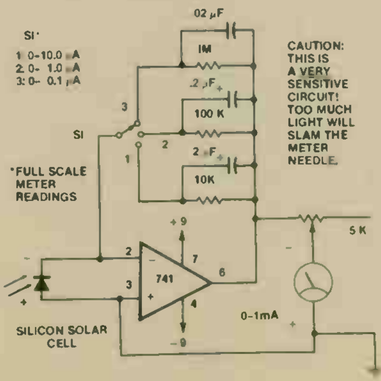
$V_{OUT} = V_{IN}$

Unity Gain Follower

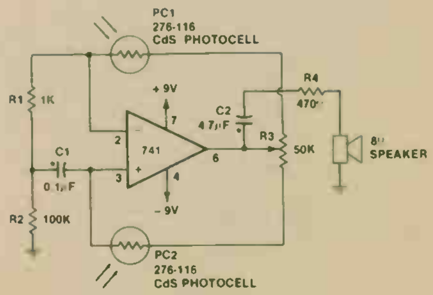


*Adjust R3 to just below oscillation point.
Adjust R2 and R3 for sounds such as bell, drum tinkling, etc

Electronic Bell

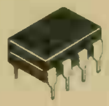

02 μF
1M
.2 μF
100 K
2 μF
10K
SI*
1: 0–10.0 μA
2: 0– 1.0 μA
3: 0– 0.1 μA
SI
3
2
1
*FULL SCALE METER READINGS
CAUTION: THIS IS A VERY SENSITIVE CIRCUIT! TOO MUCH LIGHT WILL SLAM THE METER NEEDLE.
+9
−9
741
2
3
7
6
4
5 K
0–1mA
SILICON SOLAR CELL

Optical Power Meter



Light on PC1 decreases tone frequency
Light on PC2 increases tone frequency

Audible Light Sensor



DUAL OPERATIONAL AMPLIFIER

1458
276-038

GENERAL DESCRIPTION

The 1458 is a general purpose dual operational amplifier. The two amplifiers share a common bias network and power supply leads. Otherwise, their operation is completely independent.

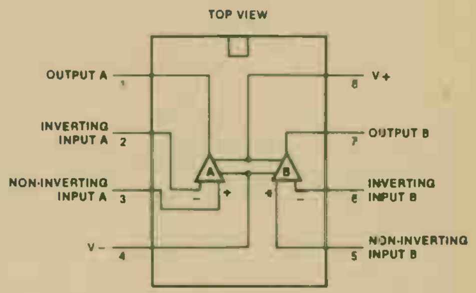
FEATURES

- No frequency compensation required.
- Short-circuit protection
- Wide common-mode and differential voltage ranges
- Low-power consumption
- No latch up when input common mode range is exceeded

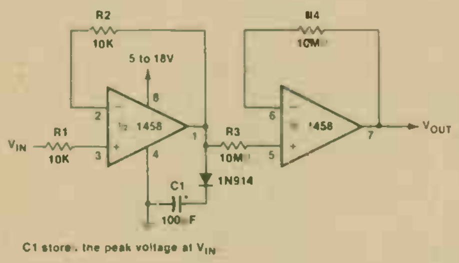
ABSOLUTE MAXIMUM RATINGS

Supply Voltage	±16V
Power Dissipation	400 mW
Differential Input Voltage	±30V
Input Voltage	±15V
Output Short-Circuit Duration	Indefinite
Operating Temperature Range	0 to +70°C
Storage Temperature Range	−65 to +150°C
Lead Temperature (Soldering, 10 sec)	300°C

PIN CONNECTION

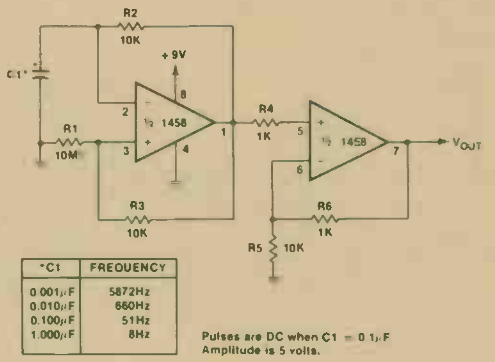


TYPICAL APPLICATIONS



C1 stores the peak voltage at V_IN

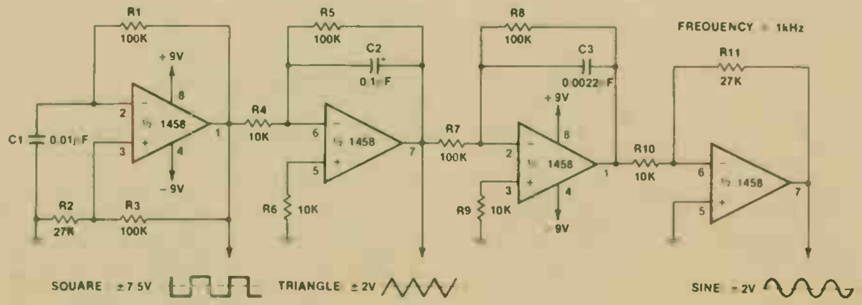
Peak Detector



*C1	FREQUENCY
0.001μF	5872Hz
0.010μF	660Hz
0.100μF	51Hz
1.000μF	8Hz

Pulses are DC when C1 = 0.1μF
Amplitude is 5 volts.

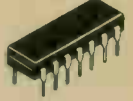
Pulse Generator



Function Generator

324
276-1711

QUAD OP AMP



GENERAL DESCRIPTION

The 324 series consists of four independent, high gain, internally frequency compensated operational amplifiers which were designed specifically to operate from a single power supply over a wide range of voltages. Operation from split power supplies is also possible and the low power supply current drain is independent of the magnitude of the power supply voltage.

Application areas include transducer amplifiers, dc gain blocks and all the conventional op amp circuits which now can be more easily implemented in single power supply systems. For example, the 324 series can be directly operated off of the standard +5 V_{DC} power supply voltage which is used in digital systems and will easily provide the required interface electronics without requiring the additional +15 V_{DC} power supplies.

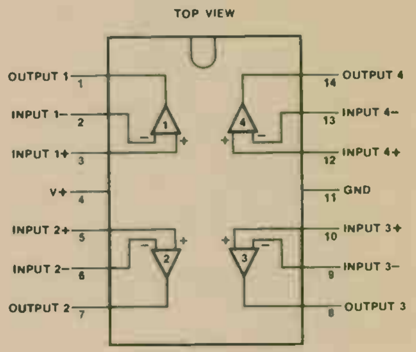
FEATURES

- Internally frequency compensated for unity gain
- Large dc voltage gain 100 dB
- Wide bandwidth (unity gain) 1 MHz (temperature compensated)
- Wide power supply range:
  Single supply 3 V_{DC} to 30 V_{DC}
  or dual supplies ±1.5 V_{DC} to ±15 V_{DC}
- Very low supply current drain (800 μA)—essentially independent of supply voltage (1 mW/op amp at +5 V_{DC})
- Low input biasing current 45 nA_{DC} (temperature compensated)
- Low input offset voltage 2 mV_{DC} and offset current 5 nA_{DC}
- Input common-mode voltage range includes ground
- Differential input voltage range equal to the power supply voltage
- Large output voltage swing 0 V_{DC} to V^+ −1.5 V_{DC}

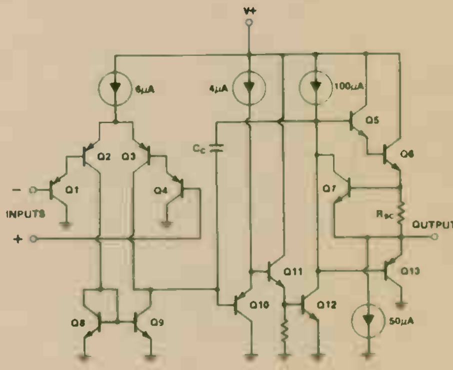
ABSOLUTE MAXIMUM RATINGS

Supply Voltage, V^+	32 V_{DC} or ±16 V_{DC}
Differential Input Voltage	32 V_{DC}
Input Voltage	−0.3 V_{DC} to +32 V_{DC}
Power Dissipation	
Molded DIP	570 mW
Cavity DIP	900 nW
Output Short-Circuit to GND (One Amplifier)	Continuous
$V^+ \leq 15\ V_{DC}$ and $T_A = 25°C$	
Input Current ($V_{IN} < -0.3\ V_{DC}$)	50 mA
Operating Temperature Range	0 to +70°C
Storage Temperature Range	−65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

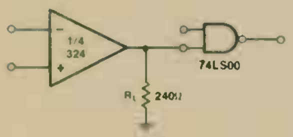
PIN CONNECTION



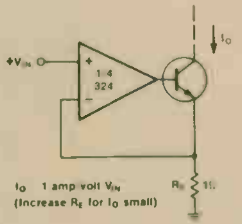
INTERNAL CIRCUIT
(Each Amplifier)



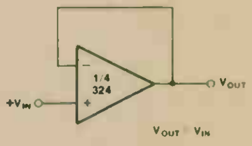
TYPICAL APPLICATIONS



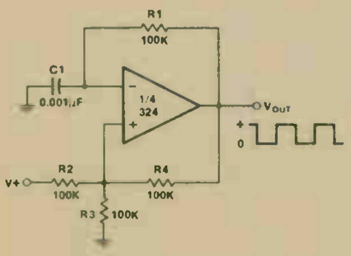
Driving TTL



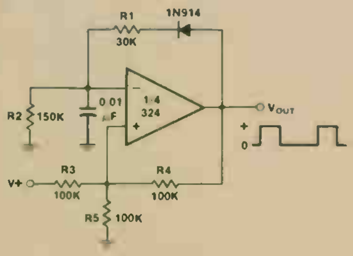
High Compliance Current Sink



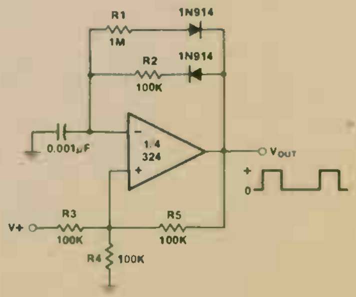
Voltage Follower



Squarewave Oscillator



Pulse Generator



Pulse Generator

TIMER

555
276-1723

GENERAL DESCRIPTION

The 555 is a highly stable device for generating accurate time delays or oscillation. Additional terminals are provided for triggering or resetting if desired. In the time delay mode of operation, the time is precisely controlled by one external resistor and capacitor. For astable operation as an oscillator, the free running frequency and duty cycle are accurately controlled with two external resistors and one capacitor. The circuit may be triggered and reset on falling waveforms, and the output circuit can source or sink up to 200 mA or drive TTL circuits.

FEATURES

- Timing from microseconds through hours
- Operates in both astable and monostable modes
- Adjustable duty cycle
- Output can source or sink 200 mA
- Output and supply TTL compatible
- Temperature stability better than 0.005% per °C
- Normally on and normally off output

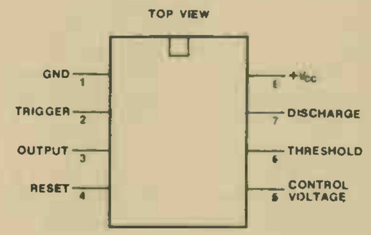
APPLICATIONS

- Precision timing
- Pulse generation
- Sequential timing
- Time delay generation
- Pulse width modulation
- Pulse position modulation
- Linear ramp generator

ABSOLUTE MAXIMUM RATINGS

Supply Voltage	+16V
Power Dissipation	600 mW
Operating Temperature Range	0 to +70°C
Storage Temperature Range	−65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

PIN CONNECTION

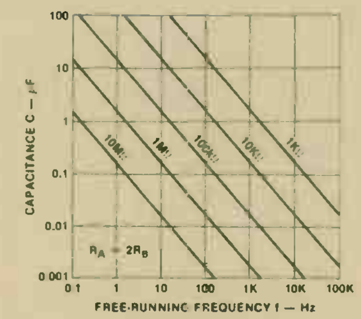


TRUTH TABLE

PIN 2 TRIGGER	PIN 6 THRESHOLD	PIN 4 RESET	PIN 3 OUTPUT
H	X	H	L
L	X	H	H
H	L	H	L
X	X	L	L

X = Don't Care L = Low Level H = High Level

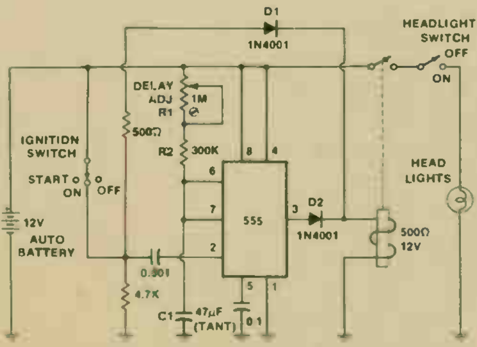
TYPICAL CHARACTERISTICS



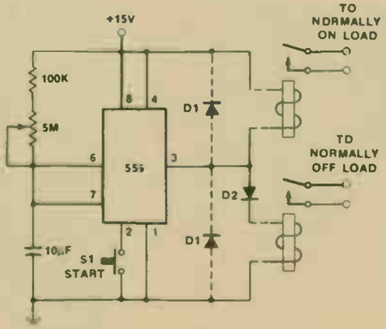
Capacitance vs Free-Running Frequency

The charge time (output high) is given by: $t_1 = 0.693\,(R_A + R_B)\,C$
The discharge time (output low) is given by: $t_2 = 0.693\,(R_B)\,C$
Thus the total period is: $T = t_1 + t_2 = 0.693\,(R_A + 2R_B)\,C$
The frequency of oscillation is: $f = 1/T = 1.44\,/\,(R_A + 2R_B)\,C$

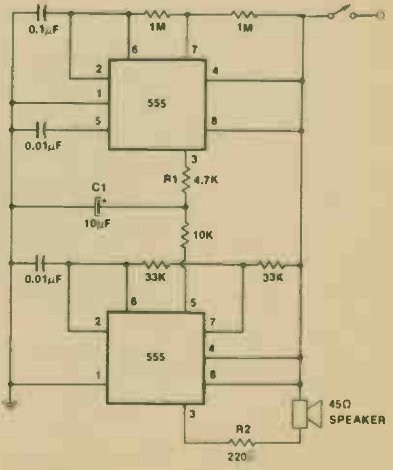
TYPICAL APPLICATIONS



Automatic Headlight Turn-Off Circuit



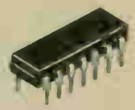
Relay Timer



Warble Alarm Circuit

556
276-1728

DUAL TIMER



GENERAL DESCRIPTION

The 556 dual timing circuit is a highly stable controller capable of producing accurate time delays or oscillation. The 556 is a dual 555. Timing is provided by an external resistor and capacitor for each timing function. The two timers operate independently of each other sharing only V_{CC} and ground. The circuits may be triggered and reset on falling waveforms. The output structures may sink or source 200 mA.

FEATURES

- Timing from microseconds through hours
- Operates in both astable and monostable modes
- Replaces two 555 timers
- Adjustable duty cycle
- Output can source or sink 200 mA
- Output and supply TTL compatible
- Temperature stability better than 0.005% per °C
- Normally on and normally off output

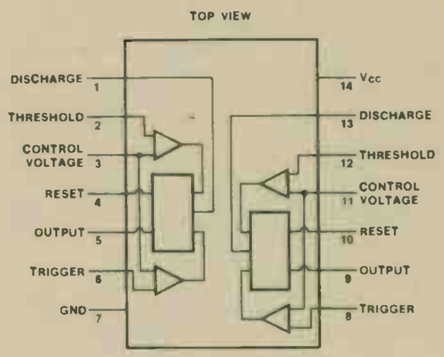
APPLICATIONS

- Precision timing
- Pulse generation
- Sequential timing
- Time delay generation
- Pulse width modulation
- Pulse position modulation
- Linear ramp generator

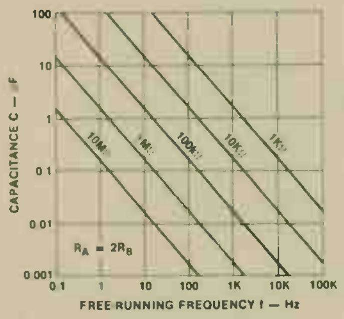
ABSOLUTE MAXIMUM RATINGS

Supply Voltage	+16V
Power Dissipation	600 mW
Operating Temperature Range	0 to +70°C
Storage Temperature Range	−65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

PIN CONNECTION

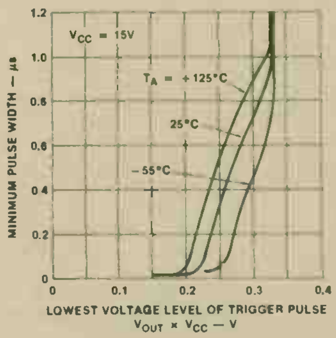


TYPICAL CHARACTERISTICS

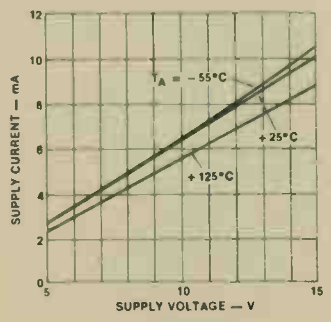


Capacitance vs
Free-Running Frequency

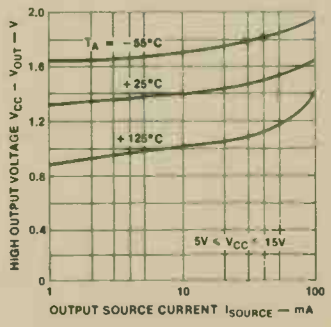
The charge time (output high) is given by.
$t_1 = 0.693 (R_A + R_B) C$
The discharge time (output low) is given by
$t_2 = 0.693 (R_B) C$
Thus the total period is:
$T = t_1 + t_2 = 0.693 (R_A + 2R_B) C$
The frequency of oscillation is
$f = 1/T = 1.44 / (R_A + 2R_B) C$



Minimum Pulse Width vs
Lowest Voltage Level of Trigger Pulse



Supply Current
vs Supply Voltage



High Output Voltage vs
Output Source Current

3-TERMINAL ADJUSTABLE POSITIVE REGULATOR

317T
276-1778

GENERAL DESCRIPTION

The 317T is an adjustable 3-terminal positive voltage regulator capable of supplying in excess of 1.5 A over a 1.2 V to 37 V output range. This device is exceptionally easy to use and requires only two external resistors to set the output voltage.

In addition to higher performance than fixed regulators, the 317T offers full overload protection available only in IC's. Included on the chip are current limit, thermal overload protection and safe area protection. All overload protection circuitry remains fully functional even if the adjustment terminal is disconnected.

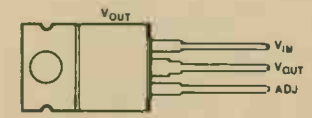
Normally, no capacitors are needed unless the device is situated far from the input filter capacitors in which case an input bypass is needed. An optional output capacitor can be added to improve transient response. The adjustment terminal can be bypassed to achieve very high ripple rejection ratios which are difficult to achieve with standard 3-terminal regulators.

Besides replacing fixed regulators, the 317T is useful in a wide variety of other applications. Since the regulator is "floating" and sees only the input-to-output differential voltage, supplies of several hundred volts can be regulated as long as the maximum input to output differential is not exceeded.

It will also serve as a simple adjustable switching regulator, programmable output regulator, or by connecting a fixed resistor between the adjustment and output, the 317T can be used as a precision current regulator. Supplies with electronic shutdown can be achieved by clamping the adjustment terminal to ground which programs the output to 1.2 V where most loads draw little current.

PIN CONNECTIONS

FRONT VIEW

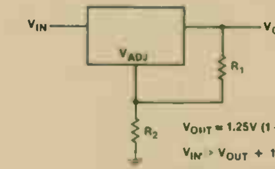


317T

FEATURES

- Adjustable output down to 1.2V
- Guaranteed 1.5A outpput current
- Line regulation typically 0.01%/V
- Load regulation typically 0.1%
- Current limit constant with temperature
- 100% electrical burn-in
- Eliminates the need to stock many voltages
- Standard 3-lead transistor package
- 80 dB ripple rejection

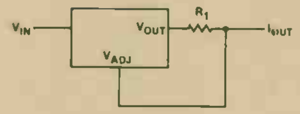
TYPICAL APPLICATIONS



$V_{OUT} = 1.25V\ (1 + \frac{R_2}{R_1})$

$V_{IN} > V_{OUT} + 1.25$

VOLTAGE REGULATOR



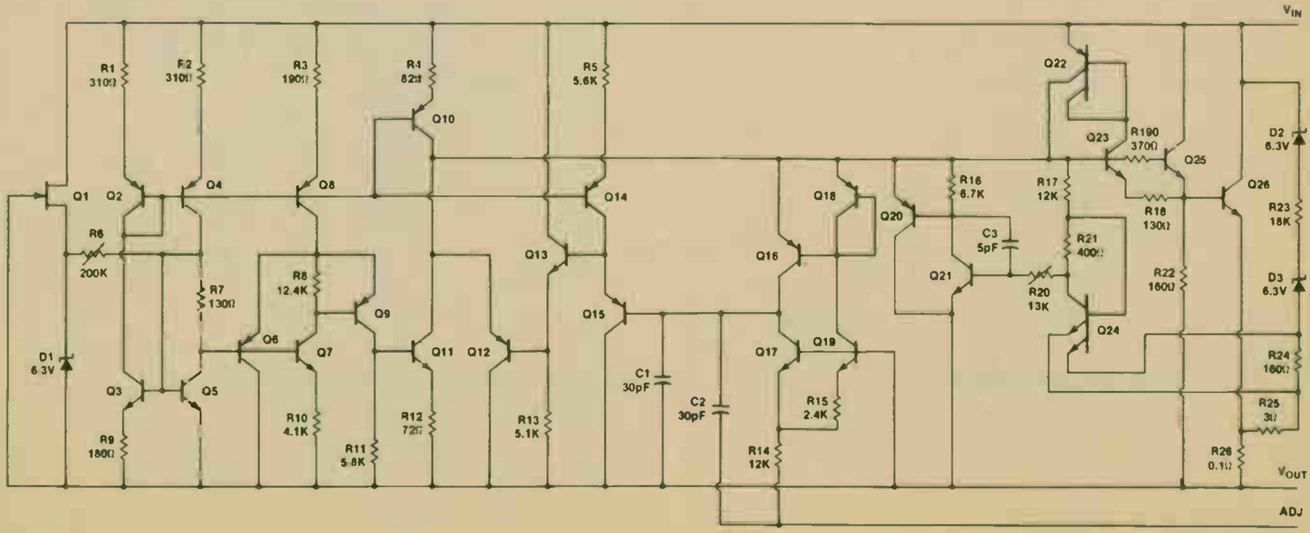
$I_{OUT} = \frac{1.25}{R_1}$

CURRENT LIMITER

ABSOLUTE MAXIMUM RATINGS

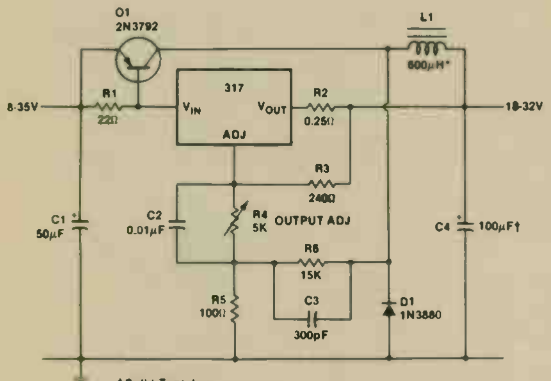
Power Dissipation	Internally limited
Input-Output Voltage Differential	40V
Operating Junction Temperature Range	0 to +125°C
Storage Temperature	−65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

INTERNAL CIRCUIT



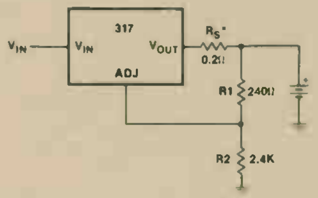
317T 276-1778

TYPICAL APPLICATIONS

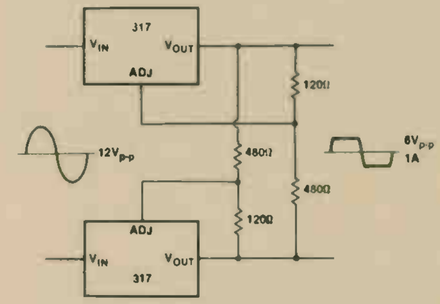


†Solid Tantalum
*Core—Arnold A-254168-2 60 turns

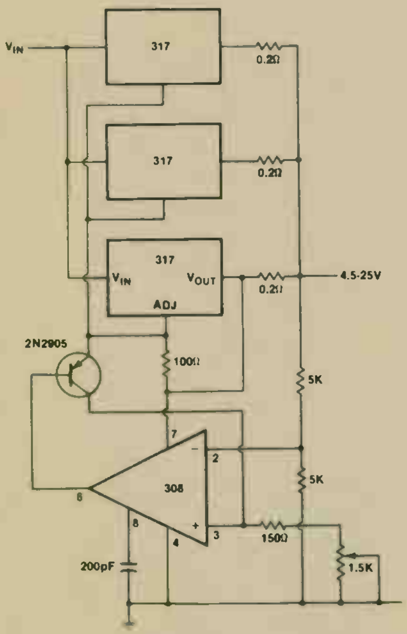
Low Cost 3A Switching Regulator



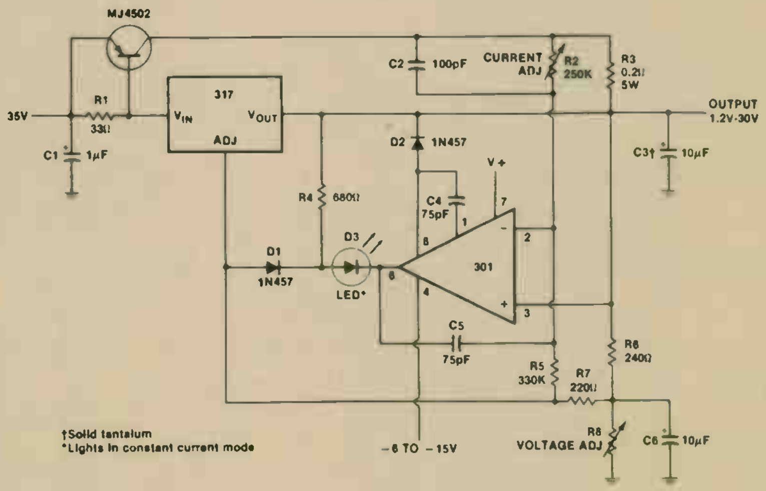
12V Battery Charger



AC Voltage Regulator

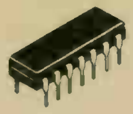


Adjustable 4A Regulator



†Solid tantalum
*Lights in constant current mode

5A Constant Voltage/Constant Current Regulator



ADJUSTABLE VOLTAGE REGULATOR

723
276-1740

GENERAL DESCRIPTION

The 723 is a voltage regulator designed primarily for series regulator applications. By itself, it will supply output currents up to 150 mA; but external transistors can be added to provide any desired load current. The circuit features extremely low standby current drain, and provision is made for either linear or foldback current limiting.

FEATURES

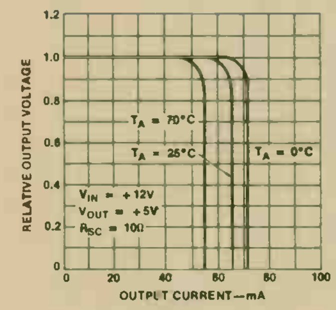
- 150 mA output current without external pass transistor
- Output currents in excess of 10A possible by adding external transistors
- Input voltage 40V max
- Output voltage adjustable from 2V to 37V
- Can be used as either a linear or a switching regulator

The 723 is also useful in a wide range of other applications such as a shunt regulator, a current regulator or a temperature controller.

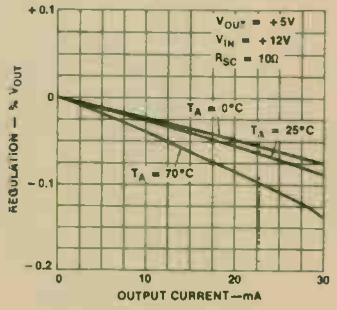
ABSOLUTE MAXIMUM RATINGS

Pulse Voltage from V^+ to V^- (50 ms)	50V
Continuous Voltage from V^+ to V^-	40V
Input-Output Voltage Differential	40V
Maximum Amplifier Input Voltage (Either Input)	7.5V
Maximum Amplifier Input Voltage (Differential)	5V
Current from V_Z	25 mA
Current from V_{REF}	15 mA
Internal Power Dissipation Metal Can	800 mW
Cavity DIP	900 mW
Molded DIP	660 mW
Operating Temperature Range	0 to +70°C
Storage Temperature Range Metal Can	−65 to +150°C
DIP	−55 to +125°C
Lead Temperature (Soldering, 10 sec)	300°C

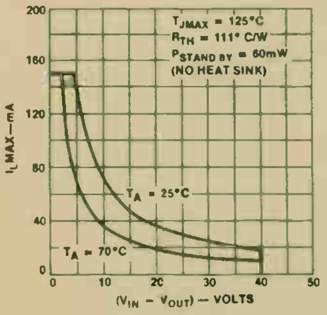
TYPICAL CHARACTERISTICS



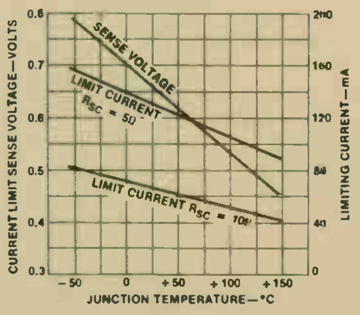
Relative Output Voltage vs Output Current



Load Regulation vs Output Current

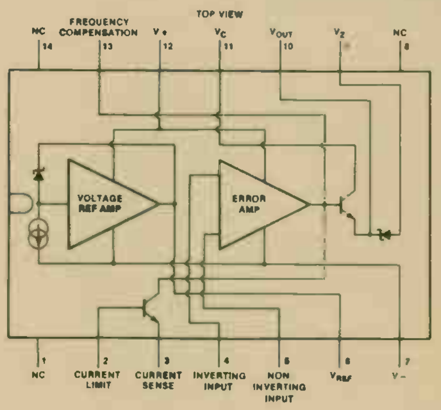


Maximum Load Current vs Input-Output Voltage Differential

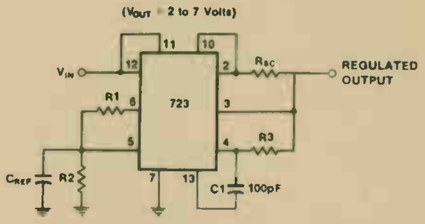


Current Limit Sense Voltage vs Junction Temperature

PIN CONNECTION



TYPICAL APPLICATIONS

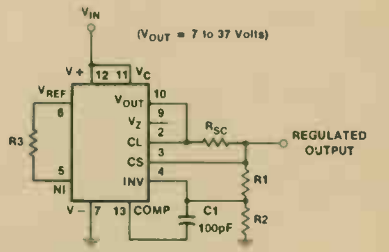


TYPICAL PERFORMANCE

Regulated Output Voltage	5V
Line Regulation (ΔV_{IN} = 3V)	0.5mV
Load Regulation (ΔI_L = 50mA)	1.5mV

Note: $R3 = \frac{R1\,R2}{R1 + R2}$ for minimum temperature drift.

Basic Low Voltage Regulator



TYPICAL PERFORMANCE

Regulated Output Voltage	15V
Line Regulation (ΔV_{IN} = 3V)	1.5mV
Load Regulation (ΔI_L = 50mA)	4.5mV

Note: $R3 = \frac{R1R2}{R1 + R2}$ for minimum temperature drift

Basic High Voltage Regulator

7805
276-1770
7812
276-1771
7815
276-1772

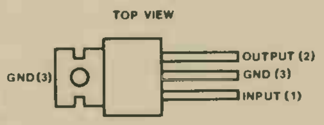
5V VOLTAGE REGULATOR
12V VOLTAGE REGULATOR
15V VOLTAGE REGULATOR

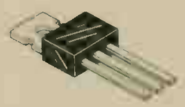
GENERAL DESCRIPTION

This series of three terminal regulators is available with several fixed output voltages making them useful in a wide range of applications. One of these is local on card regulation, eliminating the distribution problems associated with single point regulation. The voltages available allow these regulators to be used in logic systems, instrumentation, HiFi, and other solid state electronic equipment. Although designed primarily as fixed voltage regulators these devices can be used with external components to obtain adjustable voltages and currents.

This series will allow over 1.5A load current if adequate heat sinking is provided. Current limiting is included to limit the peak output current to a safe value. Safe area protection for the output transistor is provided to limit internal power dissipation. If internal power dissipation becomes too high for the heat sinking provided, the thermal shutdown circuit takes over preventing the IC from overheating.

PIN CONNECTION





FEATURES

- Internal thermal overload protection
- No external components required
- Output transistor safe area protection
- Internal short circuit current limit

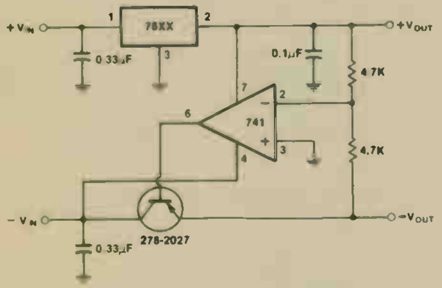
VOLTAGE RANGE

7805	5V
7812	12V
7815	15V

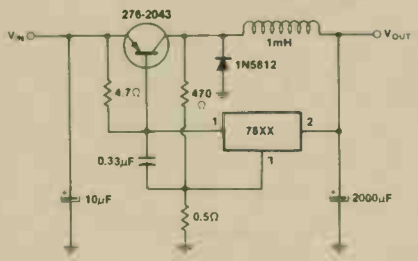
ABSOLUTE MAXIMUM RATINGS

Input Voltage	
(Output Voltage Options 5V through 18V)	35V
(Output Voltage Option 24V)	40V
Internal Power Dissipation	Internally Limited
Maximum Junction Temperature	150°C
Operating Temperature Range	0 to +70°C
Storage Temperature Range	−65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

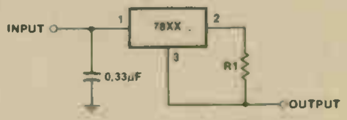
TYPICAL APPLICATIONS



±Tracking Voltage Regulator

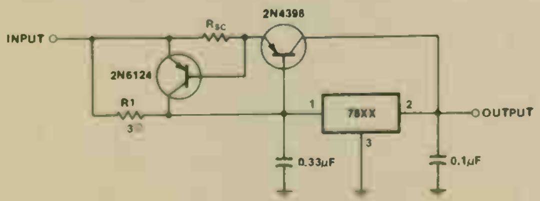


Switching Regulator

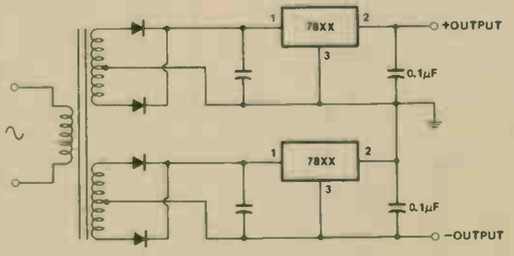


OUTPUT CURRENT $\frac{V_{OUT}}{R1}$

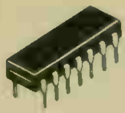
Current Regulator



High Output Current, Short Circuit Protected



Positive and Negative Regulator



QUAD COMPARATOR

339
276-1712

GENERAL DESCRIPTION

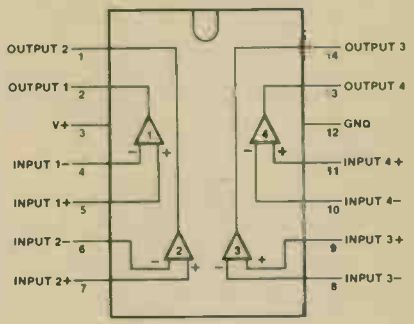
The 339 series consists of four independent voltage comparators which were designed specifically to operate from a single power supply over a wide range of voltages. Operation from split power supplies is also possible and the low power supply current drain is independent of the magnitude of the power supply voltage. These comparators also have a unique characteristic in that the input common-mode voltage range includes ground, even though operated from a single power supply voltage.

FEATURES

- Wide single supply:
  Voltage range 2 V_{DC} to 32 V_{DC} or dual supplies ±1 V_{DC} to ±16 V_{DC}
- Very low supply current drain (0.8 mA)—independent of supply voltage (1 mW/comparator at +5 V_{DC})
- Input common-mode voltage range includes ground
- Differential input voltage range equal to the power supply voltage
- Low output 1 mV at 5 µA; saturation voltage 70 mV at 1 mA
- Output voltage compatible with TTL (fanout of 2), DTL, ECL, MOS and CMOS logic systems

PIN CONNECTION

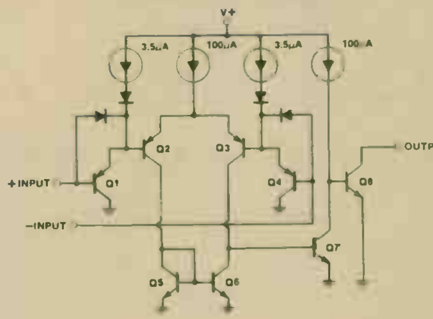
TOP VIEW



ABSOLUTE MAXIMUM RATINGS

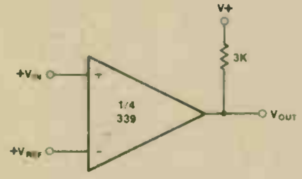
Supply Voltage, V+	32 V_{DC} or ±16 V_{DC}
Differential Input Voltage	36 V_{DC}
Input Voltage	−0.3 V_{DC} to +36 V_{DC}
Power Dissipation	
Molded DIP	570 mW
Cavity DIP	900 mW
Output Short-Circuit to GND	Continuous
Input Current ($V_{IN} < -0.3\ V_{DC}$)	50 mA
Operating Temperature Range	0 to +70°C
Storage Temperature Range	−65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

INTERNAL CIRCUIT

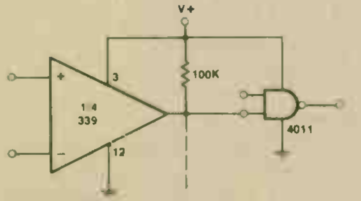


TYPICAL APPLICATIONS

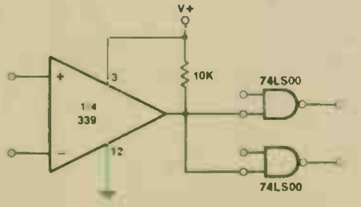
5 VOLT GROUP



Basic Comparator

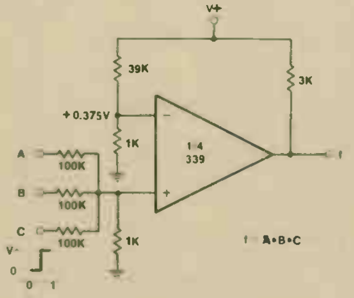


Driving CMOS

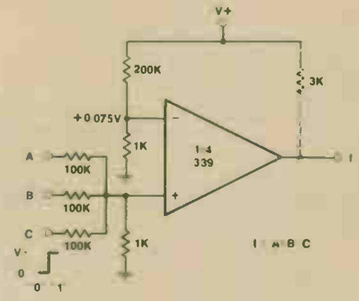


Driving TTL

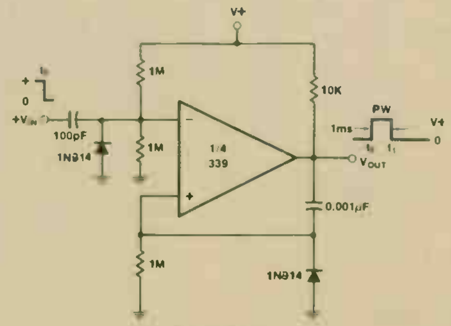
15V GROUP



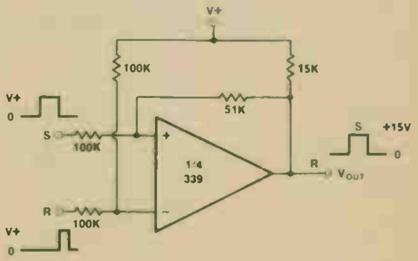
AND Gate



OR Gate



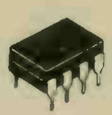
One-Shot Multivibrator



Bi-Stable Multivibrator

567
276-1721

TONE DECODER



GENERAL DESCRIPTION

The 567 is a general purpose tone decoder designed to provide a saturated transistor switch to ground when an input signal is present within the passband. The circuit consists of an I and Q detector driven by a voltage controlled oscillator which determines the center frequency of the decoder. External components are used to independently set center frequency, bandwidth and output delay.

FEATURES

- 20 to 1 frequency range with an external resistor
- Logic compatible output with 100 mA current sinking capability
- Bandwidth adjustable from 0 to 14%
- High rejection of out of band signals and noise
- Immunity to false signals
- Highly stable center frequency
- Center frequency adjustable from 0.01 Hz to 500 kHz

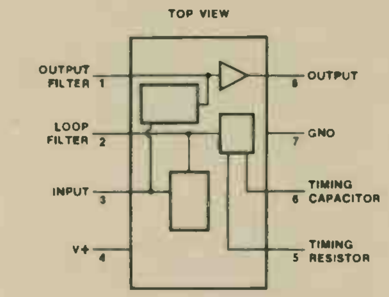
APPLICATIONS

- Touch tone decoding
- Precision oscillator
- Frequency monitoring and control
- Wide band FSK demodulation
- Ultrasonic controls
- Carrier current remote controls
- Communications paging decoders

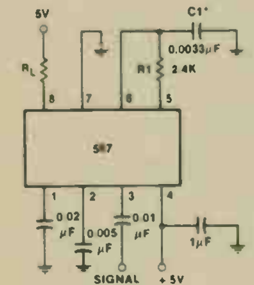
ABSOLUTE MAXIMUM RATINGS

Supply Voltage	9V
Power Dissipation	300 mW
V_8 (Output Voltage)	15V
V_3 (−Voltage at Input)	−10V
V_3 (+Voltage at Input)	V_8+0.5V
Operating Temperature	0 to +70°C
Storage Temperature Range	−65 to +150°C

PIN CONNECTION



TYPICAL APPLICATIONS



*Note: Adjust for f_o = 100kHz.

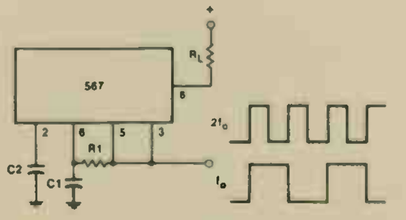
f_i = 100kHz +5V

The center frequency of the tone decoder is equal to the free-running frequency of the VCO.
This is given by $f_o \approx 1/R1C1$
The band width of the filter may be found from the approximation

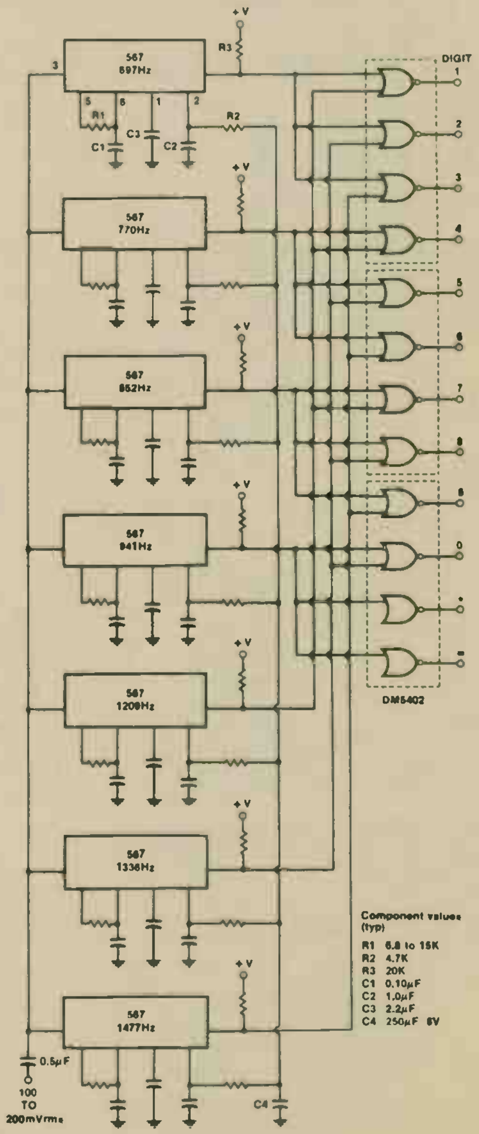
$$BW = 1070 \sqrt{\frac{V_{IN}}{f_oC2}} \text{ in \% of } f_o.$$

Where: V_{IN} = Input voltage (volts rms), $V_{IN} \leq 200$mV.
C2 = Capacitance at pin 2 in μF.

AC Test Circuit



Oscillator with Double Frequency Output



Component values (typ)

R1	6.8 to 15K
R2	4.7K
R3	20K
C1	0.10μF
C2	1.0μF
C3	2.2μF
C4	250μF 6V

Touch-Tone Decoder

LED FLASHER/OSCILLATOR

3909
276-1705

GENERAL DESCRIPTION

The 3909 is a monolithic oscillator specifically designed to flash light emitting diodes. By using the timing capacitor for voltage boost, it delivers pulses of 2 or more volts to the LED while operating on a supply of 1.5V or less. The circuit is inherently self-starting, and requires addition of only a battery and capacitor to function as a LED flasher.

It has been optimized for low power drain and operation from weak batteries so that continuous operation life exceeds that expected from battery rating.

Application is made simple by inclusion of internal timing resistors and an internal LED current limit resistor.

Timing capacitors will generally be of the electrolytic type, and a small 3V rated part will be suitable for any LED flasher using a supply up to 6V. However, when picking flash rates, it should be remembered that some electrolytics have very broad capacitance tolerances, for example −20% to +100%.

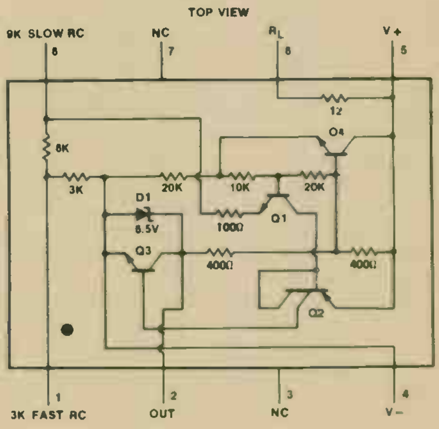
FEATURES

- Operation over one year from one C size flashlight cell
- Bright, high current LED pulse
- Minimum external parts
- Low voltage operation, from just over 1V to 5V
- Low current drain, averages under 0.5 mA during battery life
- Powerful; as an oscillator directly drives an 8Ω speaker

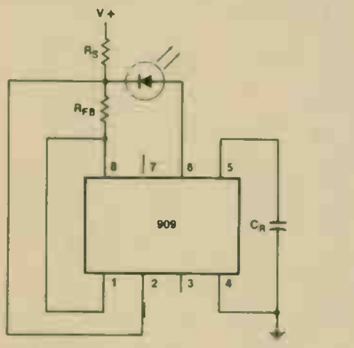
ABSOLUTE MAXIMUM RATINGS

Power Dissipation	500 mW
V+ Voltage	6.4V
Pulse Width	6 ms
Peak LED Current	45 mA
Operating Current	75 mA
Flash Frequency	1.3 Hz
High Flash Frequency	1.1 kHz
Operating Temperature Range	−25 to +70°C

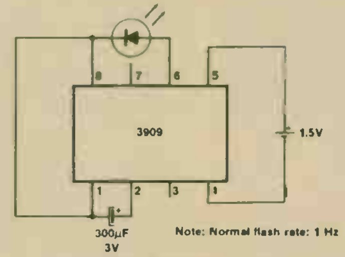
PIN CONNECTION



TYPICAL APPLICATIONS

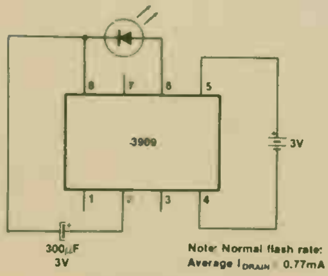


Warning Flasher High Voltage Powered



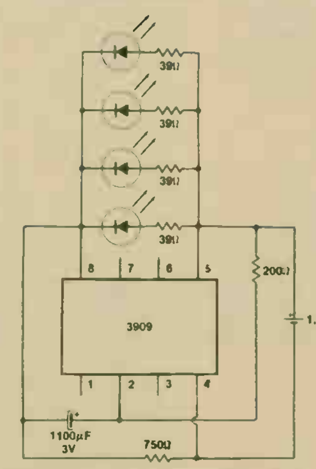
Note: Normal flash rate: 1 Hz

1.5V Flasher



Note: Normal flash rate: 1Hz
Average I_{DRAIN} 0.77mA

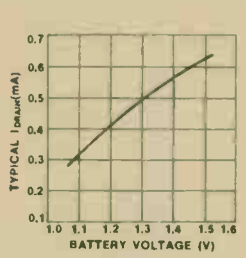
3V Flasher



Nominal flash rate: 1.3Hz Average I_{DRAIN} = 2mA

Parallel LED's

TYPICAL CHARACTERISTICS



Drain Current vs Battery Voltage

ESTIMATED BATTERY LIFE
(CONTINUOUS 1.5V FLASHER OPERATION)

SIZE CELL	TYPE	
	STANDARD	ALKALINE
AA	3 MONTHS	6 MONTHS
C	7 MONTHS	15 MONTHS
D	1.3 YEARS	2.6 YEARS

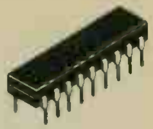
Note: Estimates are made from our tests and manufacturers data. Conditions are fresh batteries and room temperature. Clad or "leak-proof" batteries are recommended for any application of five months or more. Nickel Cadmium cells are not recommended.

TYPICAL OPERATING CONDITIONS

V+	NORMAL FLASH Hz	C_T	R_S 1W	R_{FB}	$V+_{RANGE}$
6V	2	400µF	1K	1.5K	5-25V
15V	2	180µF	3.9K	1K	13-50V
100V	1.7	180µF	43K	1K	85-200V

SSI202
276-1303

5V LOW-POWER DTMF RECEIVER

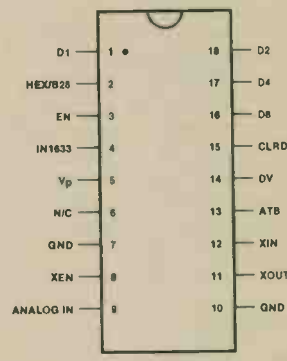


GENERAL DESCRIPTION

The SSI 202 is a complete Dual Tone Multiple Frequency (DTMF) receiver detecting a selectable group of 12 or 16 standard digits. No front-end pre-filtering is needed. The only externally required components are an inexpensive 3.58-MHz television "colorburst" crystal (for frequency reference) and a bias resistor. Extremely high system density is made possible by using the clock output of a crystal connected SSI 202 receiver to drive the time bases of additional receivers. The SSI 202 uses a monolithic integrated circuit fabricated with low-power, complementary symmetry MOS (CMOS) processing. It requires only a single low tolerance voltage supply.

The SSI 202 employs state-of-the-art circuit technology to combine digital and analog functions on the same CMOS chip using a standard digital semiconductor process. The analog input is pre-processed by 60-Hz reject and band splitting filters and then hard-limited to provide AGC. Eight bandpass filters detect the individual tones. The digital post-processor times the tone durations and provides the correctly coded digital outputs. Outputs interface directly to standard CMOS circuitry, and are three-state enabled to facilitate bus-oriented architectures.

PIN CONNECTION



FEATURES

- NO front-end band-splitting filters required
- Single, low-tolerance, 5-volt supply
- Detects either 12 or 16 standard DTMF digits
- Uses inexpensive 3.579545-MHz crystal for reference
- Excellent speech immunity
- Output in either 4-bit hexadecimal code or binary coded 2 of 8
- Synchronous or handshake interface
- Three-state outputs

ABSOLUTE MAXIMUM RATINGS*

Supply Voltage (DC)	7V
Input Voltage (All Inputs Except Analog In)	−.5V to +.5V
Analog In Voltage	−10V to +.5V
DC Current Into Any Input	±1.0 MA
Power Dissipation (Note 1)	65 MW
Operating Temperature	0°C to 70°C
Storage Temperature	−65°C to 150°C

* All unused inputs must be connected to V_p or GND as appropriate.
Note 1: Operate above 25°C @ 6.25 mw/°C

ANALOG IN

This pin accepts the analog input. It is internally biased so that the input signal may be AC coupled. The input may be DC coupled as long as it does not exceed the positive supply. Proper input coupling is illustrated in Fig. 1.

The SSI 202 is designed to accept sinusoidal input wave forms but will operate satisfactorily with any input that has the correct fundamental frequency with harmonics greater than 20 dB below the fundamental.

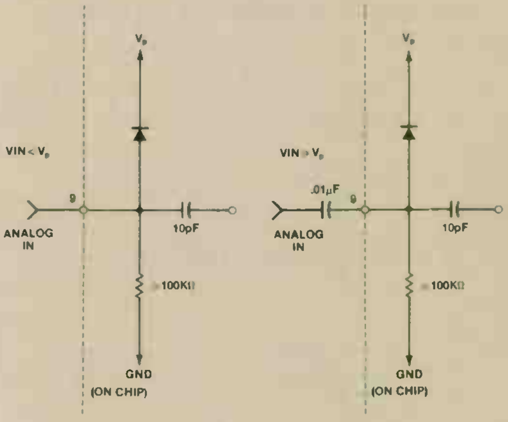
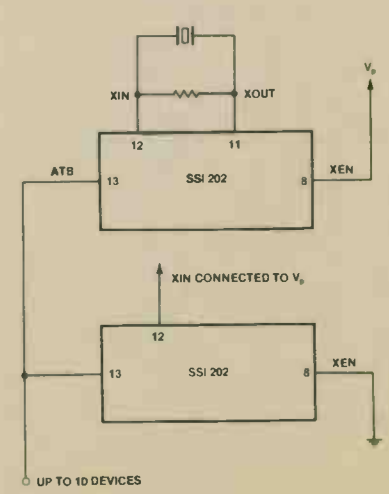


Fig. 1

CRYSTAL OSCILLATOR

The SSI 202 contains an onboard inverter with sufficient gain to provide oscillation when connected to a low-cost television "color-burst" crystal. The crystal oscillator is enabled by tying XEN high. The crystal is connected between XIN and XOUT. A 1 MΩ 10% resistor is also connected between these pins. In this mode, ATB is a clock frequency output. Other SSI 202's may use the same frequency reference by tying their ATB pins to the ATB of a crystal-connected device. XIN and XEN of the auxiliary devices must then be tied high and low respectively. Ten devices may run off a single crystal-connected SSI 202.



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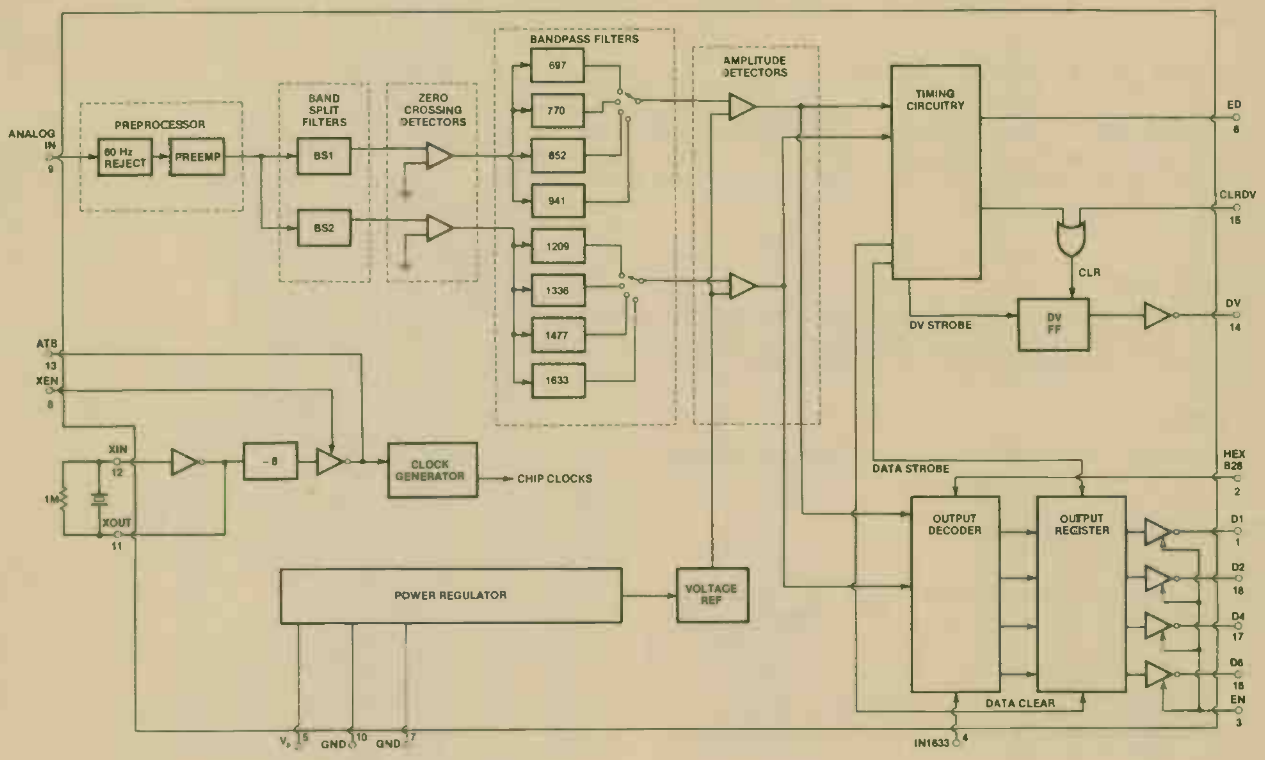
Block Diagram



HEX/B28

This pin selects the format of the digital output code. When HEX/B28 is tied high, the output is hexadecimal. When tied low, the output is binary coded 2 of 8. The table below describes the two output codes.

Digit	Hexadecimal				Binary Coded 2 of 8			
	D8	D4	D2	D1	D8	D4	D2	D1
1	0	0	0	1	0	0	0	0
2	0	0	1	0	0	0	0	1
3	0	0	1	1	0	0	1	0
4	0	1	0	0	0	1	0	0
5	0	1	0	1	0	1	0	1
6	0	1	1	0	0	1	1	0
7	0	1	1	1	1	0	0	0
8	1	0	0	0	1	0	0	1
9	1	0	0	1	1	0	1	0
0	1	0	1	0	1	1	0	1
*	1	0	1	1	1	1	0	0
#	1	1	0	0	1	1	1	0
A	1	1	0	1	0	0	1	1
B	1	1	1	0	0	1	1	1
C	1	1	1	1	1	0	1	1
D	0	0	0	0	1	1	1	1

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IN1633

When tied high, this pin inhibits detection of tone pairs containing the 1633-Hz component. For detection of all 16 standard digits, IN1633 must be tied low.

OUTPUTS D1, D2, D4, D8 and EN

Outputs D1, D2, D4, D8 are CMOS push-pull when enabled (EN high) and open circuited (high impedance) when disabled by pulling EN low. These digital outputs provide the code corresponding to the detected digit in the format programmed by the HEX/B28 pin. The digital outputs become valid after a tone pair has been detected and they are then cleared when a valid pause is timed.

DV and CLRDV

DV signals a detection by going high after a valid tone pair is sensed and decoded at the output pins D1, D2, D4, D8. DV remains high until a valid pause occurs or the CLRDV is raised high, whichever is earlier.

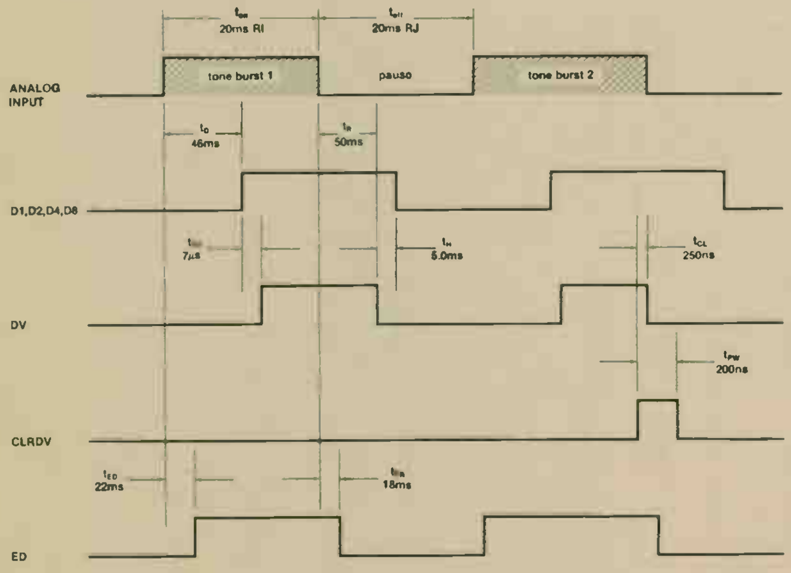
N/C PINS

These pins have no internal connection and may be left floating.

DETECTION FREQUENCY

Low Group f_o	High Group f_o
Row 0 = 697 Hz	Column 0 = 1209 Hz
Row 1 = 770 Hz	Column 1 = 1336 Hz
Row 2 = 852 Hz	Column 2 = 1477 Hz
Row 3 = 941 Hz	Column 3 = 1633 Hz

SSI 202 TIMING



CODE-TO-SPEECH CHIP

CTS256AL2
276-1786

GENERAL DESCRIPTION

The Code-To-Speech chip set consists of two chips: the SPO256A-AL2 (Cat. No. 276-1784), an allophone-base single chip speech synthesizer, and the CTS256A-AL2, an 8-bit microcomputer programmed with a letter-to-sound based algorithm. This chip set translates English characters into LPC synthesized speech sounds.

The SPO256A-AL2 is a standard allophone chip and is based on the SPO256A speech synthesizer. This synthesizer consists of a 10 or 12 pole second-order cascaded LPC filter, a controller, and a 16-Kbit ROM in which 59 allophones (speech sounds) and five pauses are stored.

The CTS256A-AL2 is a device whose on-board ROM is masked with code-to-speech algorithm. This algorithm converts English text (in the form of standard ASCII characters) into SPO256A-AL2 compatible allophone addresses, using letter-to-sound rules.

This chip set delivers highly recognizable speech output from any peripheral device or computer in a flexible and cost effective manner. It can be configured as a dedicated code-to-speech system, as well as add speech output to a user's program running in this CTS256A-AL2 from off-chip Rom. Such user programs are written in PIC7001 assembly language which is 100% compatible with TMS7001 assembly language.

Eproms can be added to improve the pronunciation of certain proper names, acronyms and technical words as well as to store user programs.

FEATURES:

- Unlimited vocabulary
- Utilizes letter-to-sound rules
- Serial or parallel interface
- Microprocessor available for user code

PIN SELECTABLE CODE-TO-SPEECH OPTIONS:

Refer to TABLE 1.

INPUT INTERFACE	—Serial port & baud rate vs. Parallel port
INPUT BUFFER	—Internal RAM vs. External RAM
DELIMITER	—Any-delimeter vs Carriage-return-only
UART PARAMETERS	—Program defaults vs 74LS373 selectable (or eprom definable)

FIRMWARE (EXCEPTION-WORD/USER EPROM) CONTROLLED CODE-TO-SPEECH OPTIONS: (optional)

Refer to TABLE 2.

- Parallel port decode relocatable
- UART parameters 74LS373 decode relocatable
- UART parameters selectable
- Start & end address of External-Ram relocatable

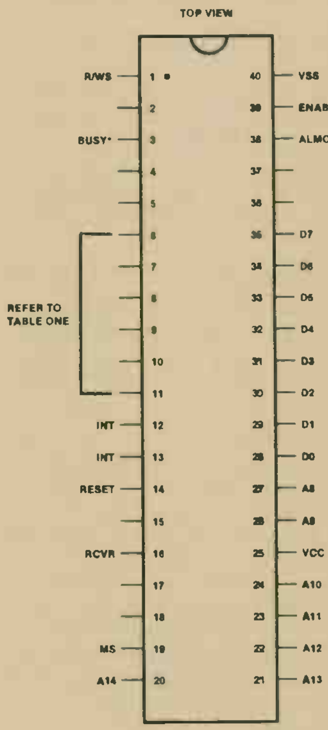
CODE-TO-SPEECH ALGORITHM FEATURES:

-ESCAPE	'ESC", (1B Hex)	THE ESCAPE-KEY CODE WILL DUMP THE CONTENTS OF THE INPUT AND OUTPUT BUFFERS, AND WILL ALSO SILENCE SPEECH OUTPUT WHICH IS IN PROGRESS.
-BACKSPACE	'<-", (0B Hex)	THE BACKSPACE-KEY CODE ERASES THE INPUT BUFFER ONE CHARACTER AT A TIME, BEGINNING WITH THE LATEST ENTRY.

NOTE: The R/C combination indirectly connected to PIN 14 of the CTS256A-AL2 and to PIN 2, 25 of the SPO256A-AL2 acts as a power-on reset. The requirement to reset the chip-set is a negative-going pulse which remains LO for a minimum of 500 microseconds.

NOTE: A signal (input or output) that is active-LO is designated by its signal name followed by an asterisk (*).

PIN CONNECTION



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CODE-TO-SPEECH ALGORITHM (Cont'd)

NOTE: The program default address decode of the SPO256A-AL2's ALD* input is 2000H. It is re-definable via the EXCEPTION-WORD or USER eprom. Refer to TABLE 2.

NOTE: MSnibble means most significant nibble, where a nibble is half a byte. MSB means most significant byte; LSB means least significant byte. 'X' stands for the MSnibble of the MSB of the two byte address, and can be 1,2,3,4,5,6,7,8,9,A,B,C,D, or E because an eprom may reside from 1000H to E000H.

NOTE: The term 'delimiter' refers to any punctuation following a word or numerical sequence. These include: , . ; : ! ? spaces and carriage-returns.

CODE-TO-SPEECH ALGORITHM

Upon power-up (or hardware reset) the CTS256A-AL2 determines the system configuration with respect to the following five options:

1- INTERNAL / EXTERNAL RAM SELECTION: (Refer to TABLE 1.)

INTERNAL-RAM mode has an input buffer which accommodates words or phrases that are no greater than 19 characters in length followed by a delimiter; and an output buffer that accommodates an allophone translation of that word or phrase that is no greater than 26 allophone addresses.

Since the translation more often than not results in the output buffer contents consisting of two times that of the input buffer, words no longer than 13 characters in length and numerical sequences of no longer than 4 numbers in length should be used as a rule of thumb. If the output buffer overflows, what has not been spoken yet from the output buffer might be lost, and the BUSY* flag will not necessarily show an input buffer empty status even though the input buffer might be empty. If a translation results in an output buffer overflow, the system reset may have to be used to clear the system.

EXTERNAL-RAM mode can be used to extend the size of the input and output buffers. If no EXCEPTION-WORD or USER eproms are present, the start address default is 3000H. Static RAM can be added in 256 byte contiguous block increments, beginning with a minimum of 512 bytes. The algorithm will find the end address by searching for the first non-RAM location at 256 byte intervals. The search for the end address will not progress beyond 2K bytes.

If an eprom is present, the start and end addresses are re-definable there. Requirements are: minimum start address is 0200H; the start address must begin on a boundary where the LSByte of the address =00; and without the end address specified in eprom, the maximum valid start address is EE00H.

In any case, 256 bytes are taken for the output buffer; the remainder is the input buffer. (External-Ram used must have an access time of 250 nS or less.)

2- ROM: A search is made from 1000H to E000H is 4K increments for the 5 byte sequence (80H, 48H, 28H, 58H, 85H) which uniquely identifies the presence of an EXCEPTION-WORD or USER eprom. If neither are present, the system options are set to algorithm default values or can be chosen by the Pin selectable options. If only a USER eprom is present, the system options may be re-defined from the USER eprom; refer to APPENDIX-0. If both USER and EXCEPTION-WORD eproms are present or if only an EXCEPTION-WORD eprom is present, the system option may be re-defined from the EXCEPTION-WORD eprom; refer to APPENDIX-A,B. (External-Ram used must have an access time of 300nS or less.)

Exception-Word Eprom(s): (optional)

Exception-word eprom(s) say reside anywhere within the decodeable addresspace of the CTS256A-AL2 from 1000H to E000H, providing its start address falls on a 4K boundary. The code-to-speech initialization routine will search for its existence which is denoted by a unique 5-byte sequence of numbers (80H, 48H, 28H, 58H, 85H). A few other locations in the primary

Exception-Word Eprom(s): (Cont'd)

exception-word eprom are reserved, and must contain specific sequences of numbers; the remainder are user-defined. Additional exception-word eprom(s) contiguous to the primary exception-word eprom contain no reserved locations. Refer to APPENDIX-A, B for the applicable EXCEPTION-WORD EPROM MEMORY MAP.

User-Eprom(s): (optional)

If a USER eprom is accompanied by an EXCEPTION-WORD eprom, it may reside anywhere. If no EXCEPTION-WORD eprom accompanies it then it may reside anywhere from 1000H to E000H providing its start address falls on a 4K boundary; and it must then begin with the sequence 80H, 48H, 28H, 58H, 85H; and also contain other reserved locations. If an EXCEPTION-WORD eprom is present, the USER's program can even reside in an unused portion of the EXCEPTION-WORD eprom. Refer to APPENDIX-D,E for the applicable USER EPROM MEMORY MAP.

Interaction between a USER program and the code-to-speech algorithm must be controlled in an orderly manner, ie; the user must save the processor status before taking control of the processor for execution of any USER code (except for character string loading operations, which is described next:)

To prepare the code-to-speech algorithm to process and speak, the USER program passes the character string it wants spoken into the Accumulator one character at a time, then calls the routine @SAVE which transfers it into the input buffer. After the character string loading has been completed, the USER code can initiate the speech by calling the @SPEAK routine; assuming that a delimiter followed that character string. After the loaded character string is processed and spoken, program control resumes in the hands of the USER program by the Branch @USERCODE instruction.

No registers used by the code-to-speech algorithm may be disturbed by the USER code during character string loading, (except for the Accumulator).

Prior to the USER code executing anything other than character string loading, all registers used by the code-to-speech algorithm as well as the Stack Pointer and STATUS register are to be saved. These registers must be recovered prior to future character string loading operations; or prior to initiating speech.

Because of masked code-to-speech restrictions within the CTS256A-AL2, Interrupt-1* and Interrupt-3* are not USER accessible. Also, input from the serial port into the USER code can be obtained, but restrictions apply.

Refer to APPENDIX-F for a discussion of the sequence of events and subroutines necessary for USER/CODE-TO-SPEECH interactions as described above.

3- Serial / Parallel Input Interface Selection: (Refer to TABLE 1.)

In the parallel mode, ASCII data is latched by an 74LS374, upon receipt of an Active LO data-valid strobe. This strobe also vectors the algorithm to accept the data via Interrupt-3*, PIN 12 of the CTS256A-AL2. The latch's address default is 200H. It is re-definable from EXCEPTION-WORD or USER eprom. (Refer to TABLE 9 for timing requirements of the parallel port.)

In the serial mode, ASCII data is accepted via the CTS256A-AL2 PIN 16, which is a built-in UART that requires a TTL level signal input. The baud rate is selectable at 50,110,300,1200,2400,4800 and 9600. The other UART parameters are set to algorithm default values, or are hardware selectable via an 74LS373 buffer. The buffer address default is 1000H. The UART parameters as well as the baud rate is re-definable from EXCEPTION-WORD or USER eprom. The algorithm default UART values are: Asynchronous, 7 bits/character, 2 stop bits, and no parity.

In either serial or parallel mode, the input buffer is protected from overflow by a hysteresis subroutine which signals the host when the input buffer is full, and when the input buffer is ready for additional input. Hardware handshaking (BUSY*) is provided to accomplish this signaling of input buffer status.

BUSY* is Active-LO. It toggles LO when the input buffer becomes 87.5% full. In this way the host system may use its discretion to complete that transmission or a part thereof. If the input buffer becomes 100% full, the parallel and serial port interrupts are disabled to prevent input buffer overwrite; and the interrupts are not re-enabled until the input buffer full condition has dissipated. BUSY* will toggle hi when the input buffer becomes 50% empty; at which time the interrupts are enabled if they had been disabled by a 100% full condition. (BUSY* is PIN-3 of the CTS256A-AL2 which is a TTL level output capable of sinking 10 mA maximum.)

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4- Software / Hardware (or Firmware) UART Parameters Selection: (Refer to TABLE 1.)

This hardware option tells the code-to-speech algorithm to use the default UART values, or to find the parameters at the 74LS373 buffer. The buffer address default is 1000H. The UART parameters are re-definable from eprom, but only if the hardware mode is selected via Pin 9 of the CTS256A-AL2.

5- Any-Delimiter / Carriage-Return-Only Selection: (Refer to TABLE 1.)

In the any-delimiter mode, the code-to-speech algorithm will process and speak words or phrases as soon as they are followed by any delimiter. In the carriage-return-only mode, the algorithm will process and speak words or phrases only after a carriage-return is received as a delimiter. The carriage-return-only mode is meant for use with a slow input device such as a terminal, where the user wishes to buffer-up a complete phrase so that it is spoken with fluency. If the carriage-return-only mode is chosen in conjunction with EXTERNAL-RAM, limit to 160 characters the length of the phrase which is entered before the carriage-return is entered. This allows for a two line phrase to be spoken with fluency while insuring that the 256 byte output buffer should not overflow.

After completion of the initialization the phrase "O.K." is spoken to demonstrate that the system is ready for input, then one of the following two paths is taken dependent upon the system configuration:

1: In a 'dedicated code-to-speech system' (ie; USER eprom is not present), the algorithm idles as long as the input buffer remains empty. Input is via standard ASCII characters. Processing begins with an alphabetical search of the EXCEPTION-WORD eprom, if it is present. If no exact match for the character string is found, or if an EXCEPTION-WORD eprom is not present, the algorithm employs a letter-to-sound rule table against which main, right, and left context matches are performed. This results in the translation of a particular word into the proper string of allophone addresses necessary for its pronunciation. This list of allophone address is sent to the SP0256A-AL2 after a carriage-return, or after any delimiter—depending on the mode selected.

2: In the 'add speech to USER's program' mode (ie; USER eprom is present), control of the processor is relinquished to the USER code immediately after the initialization is complete. The USER code may then execute its own code, may pass character strings into the input buffer memory, or may hand-off processor control to the code-to-speech algorithm to speak any previously loaded character strings. If speech is initiated, control returns to the USER code after the last delimited character string in the input buffer has been processed. Refer to APPENDIX-F.

TABLE 1.

Hardware selectable option pin-outs of CTS256A-AL2:

PIN 6	7	8		
0	0	0	←PARALLEL INPUT MODE	
0	0	1	BAUD 50	SERIAL INPUT MODE
0	1	0	BAUD 110	
0	1	1	BAUD 300	
1	0	0	BAUD 1200	
1	0	1	BAUD 2400	
1	1	0	BAUD 4800	
1	1	1	BAUD 9600	

PIN 9

0 ←PROGRAM DEFAULT UART VALUES (Asynchronous, 7 bits/character, 2 stop bits, no parity).

1 ←HARDWARE (or FIRMWARE) SELECTED UART VALUES.

PIN 10

0← INTERNAL-RAM BUFFERS, (20 BYTE INPUT/26 BYTE OUTPUT).

1← EXTERNAL-RAM BUFFERS, (1792 BYTE INPUT/256 BYTE OUTPUT WITH A 2-KBYTE RAM).

TABLE 1. Con't.

PIN 11
0 ← CARRIAGE-RETURN-ONLY DELIMITER.
1 ← ANY DELIMITER.

PIN 03 "BUSY$" (Input buffer flag is a TTL level output); for RS232 compatibility use MC1488 Line Driver or equiv.
0 → INPUT BUFFER IS > = 87.5% FULL.
1 → INPUT BUFFER IS < = 50.0% EMPTY.

PIN 16 → UART RECEIVER (Serial input is a TTL level input); for RS232 compatibility use MC1489 Line Receiver or equiv.

NOTE: 0 implies TLL LO level; 1 implies TTL HI level.
← implies input; → implies output.

A typical connection to a computer with an RS232 interface:

COMPUTER — CODE-TO-SPEECH CHIP-SET
protective GND ↔ signal GND (Circuit ground).
signal GND ↔ signal GND (Circuit ground).
Clear To Send (CTS) ← Request To Send (RTS) = CTS256A-ALs's PIN 3 (BUSY$).
Transmitter's Line Driver → CTS256A-AL2 UART's Line Receiver.

TABLE 2. NEW PARAMETERS.

X009	FF	NUMBER OF BYTES OF 50% OF EXTERNAL INPUT BUFFER (MSB)
X00A	FF	NUMBER OF BYTES OF 50% OF EXTERNAL INPUT BUFFER (LSB)
X00B	FF	NUMBER OF BYTES OF 12.5% OF EXTERNAL INPUT BUFFER (MSB)
X00C	FF	NUMBER OF BYTES OF 12.5% OF EXTERNAL INPUT BUFFER (LSB)
X00D	FF	EXTERNAL RAM START ADDRESS (MSB) see note 2.3
X00E	FF	EXTERNAL RAM START ADDRESS (LSB) see note 2.3
X00F	FF	EXTERNAL RAM END ADDRESS-100H (MSB) see note 2.3
X010	FF	EXTERNAL RAM END ADDRESS-100H (LSB) see note 2.3
X011	FF	EXTERNAL RAM START ADDRESS-1 (MSB) see note 2.3
X012	FF	EXTERNAL RAM START ADDRESS-1 (LSB) see note 2.3
X013	FF	EXTERNAL RAM END ADDRESS-FFH (MSB) see note 2.3
X014	FF	EXTERNAL RAM END ADDRESS-FFH (LSB) see note 2.3
X015	FF	EXTERNAL RAM END ADDRESS + 1 (MSB) see note 2.3
X016	FF	EXTERNAL RAM END ADDRESS + 1 (LSB) see note 2.3
X017	FF	ADDRESS DECODE OF SPO256A-AL2's ALD$ (MSB) see note 2.4
X018	FF	ADDRESS DECODE OF SPO256A-AL2's ALD$ (LSB) see note 2.4
X019	FF	ADDRESS DECODE OF 74LS374 PARALLEL PORT LATCH (MSB)
X01A	FF	ADDRESS DECODE OF 74LS374 PARALLEL PORT LATCH (LSB)
X01B	FF	see note 2.1
X01C	FF	TOTAL NUMBER OF BYTES IN INPUT BUFFER (MSB)
X01D	FF	TOTAL NUMBER OF BYTES IN INPUT BUFFER (LSB)
X01E	FF	see note 2.1
X01F	FF	see note 2.1
X020	FF	SERIAL PORT REGISTER (see table 5) see note 2.5
X021	FF	SERIAL PORT CONTROL REGISTER (see table 6) see note 2.5
X022	FF	SERIAL PORT TIMER DATA REGISTER (see table 6) see note 2.5

YOUR EXCEPTION-WORD OR USER EPROM CAN RESIDE ANYWHERE FROM 1000H TO E000H PROVIDING IT BEGINS ON A 4K BOUNDARY WHERE X = 1,2,3,4,5,6,7,8,9,A,B,C,D,or E. (The least significant 3 nibbles of the address must remain as shown.)

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NOTE 2.1 THESE LOCATIONS MUST BE FF, (THEY ARE NOT USER DEFINABLE).
NOTE 2.2 TO MAINTAIN ANY PARAMETER AT ITS DEFAULT VALUE, LOAD THAT LOCATION WITH FFH.
NOTE 2.3 IF ANY OF THE EXTERNAL RAM BUFFER PARAMETERS ARE REDEFINED HERE, ALL OF THEM MUST BE REDEFINED HERE.
NOTE 2.4 NO MATTER WHAT ADDRESS IS CHOSEN FOR ALD$, THAT ADDRESS THRU THAT ADDRESS + 3FH IS RESERVED FOR SPO256A-AL2 ADDRESSING.
NOTE 2.5 IF ANY OF THE SERIAL PORT PARAMETERS ARE REDEFINED HERE, ALL OF THEM MUST BE REDEFINED HERE.
NOTE 2.6 H, AS IN 100H REFERS TO HEXADECIMAL NOTATION.
NOTE 2.7 A NIBBLE IS HALF OF A BYTE, OR 4 BITS.

TABLE 3. SAMPLE OF ASSEMBLED ALPHABETIZED EXCEPTION-WORD INDEX.

X0A3	X1	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "A"
X0A4	93	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "A"
X0A5	X1	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "B"
X0A6	A8	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "B"
X0A7	X1	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "C"
X0A8	A9	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "C"
X0A9	X1	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "D"
X0AA	B1	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "D"
X0AB	X1	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "E"
X0AC	B2	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "E"
X0AD	X1	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "F"
X0AE	B3	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "F"
X0AF	X1	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "G"
X0B0	B4	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "G"
X0B1	X1	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "H"
X0B2	E1	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "H"
X0B3	X1	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "I"
X0B4	E2	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "I"
X0B5	X2	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "J"
X0B6	OD	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "J"
X0B7	X2	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "K"
X0B8	OE	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "K"
X0B9	X2	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "L"
X0BA	OF	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "L"
X0BB	X2	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "M"

TABLE 3. (Cont'd)

X0BC	1B	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "M"
X0BD	X2	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "N"
X0BE	1C	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "N"
X0BF	X2	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "O"
X0C0	1D	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "O"
X0C1	X2	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "P"
X0C2	1E	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "P"
X0C3	X2	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "Q"
X0C4	2D	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "Q"
X0C5	X2	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "R"
X0C6	2E	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "R"
X0C7	X2	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "S"
X0C8	2F	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "S"
X0C9	X2	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "T"
X0CA	30	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "T"
X0CB	X2	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "U"
X0CC	3D	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "U"
X0CD	X2	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "V"
X0CE	5A	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "V"
X0CF	X2	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "W"
X0D0	5B	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "W"
X0D1	X2	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "X"
X0D2	64	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "X"
X0D3	X2	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "Y"
X0D4	65	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "Y"
X0D5	X2	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "Z"
X0D6	6F	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "Z"
X0D7	X2	MSB OF POINTER TO START EXCEPTION-WORD BEGINNING WITH "NUMBER OF PUNCTUATION"
X0D8	70	LSB OF POINTER TO START EXCEPTION-WORD BEGINNING WITH "NUMBER OF PUNCTUATION"

The least significant nibble of the MSB and the entire LSB address locations will vary with a different set of exception words; X = 1,2,3,4,5,6,7,8,9,A,B,C,D,or E.

YOUR EXCEPTION-WORD EPROM CAN RESIDE ANYWHERE FROM 1000H TO E000H PROVIDING IT BEGINS ON A 4K BOUNDARY WHERE X = 1,2,3,4,5,6,7,8,9,A,B,C,D,or E. (The least significant 3 nibbles of the address must remain as shown.)

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TABLE 4. SAMPLE OF ASSEMBLED ENCODED EXCEPTION-WORDS

```
X193 13 6E 24 AA:DB 19,110,36,185,19,90,11,1,33,19,0,18,15,0,1,65,34,39,20,141
X196 B9 13 5A 0B 01 21 13 00 12 0F
X1A0 00 01 41 22 27 14 8D
                 ;<[ANDY]< =[AE NN1 PA2 DD2 IY PA1 DH1 AX PA1 PA2 GG3 RR2 EY TT2] ANDY-THE-GREAT
X1A7 FF              DB 255
                 ;
X1A8 FF          BB:DB 255
                 ;
X1A9 13 61 B0    C:  DB 19,97,176,33,106,20,137;<[CAP]A =[KK1 EY PP]                      CAPABILITY
X1AC 21 6A 14 89
X1B0 FF              DB 255
                 ;
X1B1 FF          D:  DB 255
                 ;
X1B2 FF          E:  DB 255
                 ;
X1B3 FF          F:  DB 255
                 ;
X1B4 13 E9 13 6: DB 19,233,19,74,7,11,51,62,0,12,11,55,13,39,31,16,7,11,2,141
X1B7 4A 07 0B 33 3E 00 0C 0B 37 0D
X1C1 27 1F 10 07 0B 02 BD
                 ;<[GI]< =[JH EH NN1 ER1 EL PA1 IM NN1 SS TT2 RR2 UW2 MM EH NN1 PA3 TT2]
                 ;GENERAL INSTRUMENT
X1C8 13 E9 2D        DB 19,233,45,33,41,44,19,74,7,11,51,62,0,12,11,55,13,39,31,16,7,11,2,141
X1CB 21 29 2C 13 4A 07 0B 33 3E 00
X1D5 0C 0B 37 0D 27 1F 10 07 0B 02
X1DF 8D
                 ;<[GI][MAIL< =[JH EH NN1 ER1 EL PA1 IH NN1 SS TT2 RR2 UW2 MM EH NN1 PA3 TT2]
X1E0 FF              DB 255
                 ;
X1E1 FF          H:  DB 255
                 ;
X1E2 13 E4 13    I:  DB 19,228,19,70,0,33,7,11,2,13,12,40,12,2,42,20,37,15,139;<[ID]< =[AY PA1
X1E5 46 00 21 07 0B 02 0D 0C 2B 0C
X1EF 02 2A 14 25 0F 8B
                 ;DD2 EH NN1 PA3 TT2 IH FF IH PA3 KK1 EY SH AX NN1)                IDENTIFICATION
X1F5 13 73 2C        DB 19,115,44,165,19,70,1,190;<[ISLE]< =[AY PA2 EL]                          ISLE
X1FB A5 13 46 01 BE
X1FD 13 73 2C        DB 19,115,44,33,46,164,19,70,0,45,26,11,1,21,1;<[ISLAND]< =[AYPA2ELAENN1DD1]
X200 21 2E A4 13 46 00 2D 1A 0B 01
X20A 15 01
X20C FF              DB 255
                 ;
X20D FF          J:  DB 255
                 ;
X20E FF          K:  DB 255
                 ;
X20F 13 69 36    L:  DB 19,105,54,37,164,19,109,12,35,3,149;<[LIVED]< =[LL IH VV PA4 DD1]        LIVED
X212 25 A4 13 6D 0C 23 03 95
X21A FF              DB 255
                 ;
X21B FF          M:  DB 255
                 ;
X21C FF          N:  DB 255
                 ;
X21D FF          O:  DB 255
                 ;
X21E 13 75 32    P:  DB 19,117,50,48,47,51,165,19,73,51,9,15,55,183;<[PURPOSE]< =[PPER1PPAXSSSS]
X221 30 2F 33 A5 13 49 33 09 0F 37
X22B B7
X22C FF              DB 255
                 ;
X22D FF          Q:  DB 255
                 ;
X22E FF          R:  DB 255
                 ;
X22F FF          S:  DB 255
                 ;
```

TABLE 4. (Cont'd)

```
X230 13 6F 34   T:  DB 19,111,52,33,172,19,77,53,13,0,15,190;<[TOTAL]< =[TT2 OW TT1 PA1 AX EL]
X233 21 AC 13 4D 35 0D 00 0F BE
X23C FF             DB 255

X23D 13 73 25   U:  DB 19,115,37,50,41,164,19,113,22,43,51,1,6,0,33,7,11,2,13,12,40,12,2,42,20,37
X240 32 29 A4 13 71 16 2B 33 01 06
X24A 00 21 07 0B 02 0D 0C 2B 0C 02
X254 2A 14 25
X257 0F BB          DB 15,139;<[USERID]< =[YY1 UM1 ZZ ER1 PA1 AY PA1 DD2 EH NN1 PA3 TT2 IH FF IH
                            ;PA3 KK1 EY SH AX NN1]
X259 FF             DB 255

X25A FF         V:  DB 255

X25B 13 65 07   W:  DB 19,101,7,50,165,110,19,180                   ;<[WE'RE]=[WW IY ER2]          WE'RE
X25E 32 A5 6E 13 B4
X263 FF             DB 255
X264 FF         X:  DB 255
                ;
X265 13 6F 35   Y:  DB 19,111,53,7,50,165,19,89,186         ;<[YOU'RE]< =[YY2 0R]                 YOU'RE
X268 07 32 A5 13 59 BA
X26E FF             DB 255
                ;
X26F FF         Z:  DB 255
                ;
X270 13 CF 13   NUMORPUN: DB 19,207,19,89,58,1,16,7,55,55,12,1,10,0,2,42,26
X273 59 3A 01 10 07 37 37 0C 01 0A
X27D 00 02 2A 1A
X281 0B 01 3F       DB 11,1,63,19,0,55,55,2,9,53,2,42,7,11,0,46,12,29,0,18,15,0,2,13,15,2,50
X284 13 00 37 37 02 09 35 02 2A 07
X2BE 0B 00 2E 0C 1D 00 12 0F 00 02
X29B 0D 0F 02 32
X29C 00 0F 23       DB 0,15,35,0,20,0,2,42,19,128
X29F 00 14 00 02 2A 13 80
                ;<[/]< =[YY1 OR PA2 MM EH SS SS IH PA2 JH PA1 PA3 KK1 AE NN1 PA1 PA2 BB2 IY
                ;PAI SS SS PA3 PP OW PA3 KK1 EM NN1 PA1 WW IH TH PA1 DH1 AX PA1 PA3
                ;TT2 AX PA3 CH PA1 AX VV PA1 EY PA1 PA2 KK1 EY PA1]YOU'RE MESSAGE CAN BE SPOKEN
                ;WITH THE TOUCH OF A KEY
                ;
X2A6 C6 5A 0B       DB 198,90,11,21,128           ;[&]=[AE NN1 DD1 PA1]                          AND
X2A9 15 80
X2AB FF             DB 255                        ;MUST END EACH CATEGORY WITH [   ].
↑
└────WHERE X=1,2,3,4,5,6,7,8,9,A,B,C,D, or E. (The least significant 3 nibbles of the address
     will vary with a different set of exception words.)
```

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TABLE 5. SERIAL PORT MODE REGISTER

MSB 7	6	5	4	3	2	1	LSB 0
STOP	SIO	PEVEN	PEN	CHAR1	CHAR0	COMM	MULTI

0 = MOTOROLA PROTOCOL
1 = INTEL PROTOCOL

0 = ISOSYNCHRONOUS COMMUNICATION
1 = ASYNCHRONOUS COMMUNICATION

00 = 5 BITS/CHARACTER
01 = 6 BITS/CHARACTER
10 = 7 BITS/CHARACTER
11 = 8 BITS/CHARACTER

1 = PARITY ENABLED
0 = PARITY DISABLED

1 = EVEN PARITY
0 = ODD PARITY

0 = SERIAL I/O MODE
1 = COMMUNICATION MODE

0 = ONE STOP BIT
1 = TWO STOP BITS

FOR TYPICAL APPLICATIONS USE: MOTOROLA PROTOCOL, ASYNCHRONOUS COMMUNICATION, 7 BITS/CHARACTER, and COMMUNICATION MODE; THE NUMBER OF STOP BITS AND PARITY MODE REMAIN UP TO THE USER.

TABLE 6. SERIAL PORT CONTROL REGISTER / TIMER REGISTER

$$\text{Asynchronous Baud Rate} = \frac{2.5\ \text{MH:}}{64(PL + 1)(TL + 1)}$$

$$\text{Isosynchronous Baud Rate} = \frac{2.5\ \text{MH:}}{4(PL + 1)(TL + 1)}$$

where: PL = prescale latch value
TL = timer latch value

Example: To program the serial port to operate at 300 baud in the asynchronous mode, the prescaler value is set to 0, and the timer latch value to 81H.

MSB 7	6	5	4	3	2	1	LSB 0
X	1	0	0	0	0	PRE1	PRE0

2 BIT PRESCALE LATCH VALUE (PL)

MSB 7	6	5	4	3	2	1	LSB 0
TIMER LATCH VALUE (TL)							

TABLE 7. ASCII CHARACTER SET ENCODED VALUES

LETTER	ENCODED VALUE (shown in Hexadecimal).	LETTER	ENCODED VALUE (shown in Hexadecimal).
A	21	N	2E
B	22	O	2F
C	23	P	30
D	24	Q	31
E	25	R	32
F	26	S	33
G	27	T	34
H	28	U	35
I	29	V	36
J	2A	W	37
K	2B	X	38
L	2C	Y	39
M	2D	Z	3A

TABLE 8. ALLOPHONE ADDRESS ENCODED VALUES (shown in Hexdecimal).

ENCODED VALUE	ALLPHONE	SAMPLE WORD	DURATION (as)	ENCODED VALUE	ALLPHONE	SAMPLE WORD	DURATION (as)
00	PA1	PAUSE	10	20	AW	OUt	250
01	PA2	PAUSE	30	21	DD2	Do	80
02	PA3	PAUSE	50	22	GG3	wiG	120
03	PA4	PAUSE	100	23	VV	Vest	130
04	PA5	PAUSE	200	24	GG1	Guest	80
05	OY	bOY	290	25	SH	SHip	120
06	AY	skY	170	26	ZH	aZUre	130
07	EH	End	50	27	RR2	bRain	80
08	KK3	Coab	80	28	FF	Food	110
09	PP	Pow	150	29	KK2	sKy	140
0A	JH	dodGe	400	2A	KK1	Can't	120
0B	NN1	thiN	170	2B	ZZ	Zoo	150
0C	IH	sIt	50	2C	NG	aNchor	200
0D	TT2	To	100	2D	LL	Lake	80
0E	RR1	Rural	130	2E	WW	Wool	140
0F	AX	sUceed	50	2F	XR	repaIR	250
10	MM	Milk	180	30	WH	WHig	150
11	TT1	parT	80	31	YY1	Yes	90
12	DH1	THey	140	32	CH	CHurch	150
13	IY	sEE	170	33	ER1	fIR	110
14	EY	bEIge	200	34	ER2	fIR	210
15	DD1	coulD	50	35	OW	bEAU	170
16	UW1	tO	60	36	DH2	THey	180
17	AO	OUght	70	37	SS	veST	60
18	AA	hOt	60	38	NN2	No	140
19	YY2	Yes	130	39	HH2	Hoe	130
1A	AE	hAt	80	3A	OR	stORe	240
1B	HH1	He	90	3B	AR	alARe	200
1C	BB1	Business	40	3C	YR	cleAR	250
1D	TH	THin	130	3D	GG2	Got	80
1E	UN	bOOk	70	3E	EL	saddLE	140
1F	UW2	fOOd	170	3F	BB2	Business	60

TABLE 9. PARALLEL PORT TIMING REQUIREMENTS:

SETUP TIME, BEFORE DATA CLOCK LO TO HI TRANSITION: MIN. 20 nS. HOLD TIME, BEFORE DATA CLOCK LO TO HI TRANSITION: MIN. 10 nS. WIDTH OF CLOCK LO: MIN. 500 nS.

HOLD OFF TIME, FROM DATA STROBE HI TO LOW TO HI, UNTIL NEXT DATA STROBE HI TO LOW: MIN. 450 uS.

NOTE: The addition of an 74LS74 Flip-Flop as shown on the schematic can be used for parallel port latch handshaking using the Active-LO LATCH-BUSY$ output. LATCH-BUSY$ is LO when the latch is full, and it is HI when the latch is empty and available for the next character to be strobed in.

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APPENDIX-A

Exception-Word Eprom Map (For use without USER eprom present)

NOTE: ENCAPSULATED SEQUENCES ARE USER-DEFINED, REFER TABLES 2,3, AND 4.

```
      |0 |1 |2 |3 |4 |5 |6 |7 |8 |9 |A |B |C |D |E |F

X000  80 48 28 58 85 E0 35 E0 31 FF FF FF FF FF FF FF   ←sample
                                                         NEW PARAMETERS.
X010  FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF    (see table 2).

X020  FF FF FF 1E 1F 20 21 28 29 24 25 22 23 2A 2B 26   ←NEW PARAMETER
                                                         INITIALIZATION
X030  27 2C 2D 2E 2F 32 33 34 35 36 E0 65 78 02 31 BE    ROUTINE.
X040  F1 43 C5 AA X0 09 2D FF E2 1E B8 AA X0 23 D5 12
X050  D0 13 B9 9B 13 C3 AA X0 09 2D FF E2 0B B8 AA X0    The MSnibble of the following locations
X060  23 D5 12 D0 13 B9 9B 13 5D 16 E6 E9 C3 AA X0 09    from the NEW PARAMETER INITIALIZATION
X070  2D FF E2 14 A2 40 11 82 11 A2 15 11 C3 AA X0 09    ROUTINE are user defined also:
X080  82 15 C3 AA X0 09 82 14 98 29 03 98 2B 07 22 20    X044,X04C,X057,X05F,X06E,X07E,and X084;
X090  9B 03 BE F7 2B 9B 03 05 98 07 09 98 03 19 8C F1    where X = 1,2,3,4,5,6,7,8,9,A,B,C,D,or E.

X0A0  00 E0 36 X1 93 X1 AB X1 A9 X1 B1 X1 B2 X1 B3 X1   ←sample
                                                         ALPHABETIZED
X0B0  B4 X1 E1 X1 E2 X2 0D X2 0E X2 0F X2 1B X2 1C X2    EXCEPTION-WORD
X0C0  1D X2 1E X2 2D X2 2E X2 2F X2 30 X2 3D X2 5A X2    INDEX, where X = 1,2,3,4,5,6,7,8,9,A,B,C,D,or E.
                                                         (see table 3).
X0D0  5B X2 64 X2 65 X2 6F X2 70 D8 02 D8 03 98 03 11   ←EXCEPTION-WORD
                                                         ROUTINE.

X0E0  BE F7 4B 8E F7 0F 77 01 0A 05 74 80 0B E0 03 73
X0F0  7F 0B BE F3 AF 76 20 0A 0E 52 34 AA X0 A3 D0 14    The MSnibble of the following locations
X100  AA X0 A4 D0 15 E0 0F C5 2A 41 2C 02 AA X0 A3 D0    from the EXCEPTION-WORD ROUTINE are user
X110  14 AA X0 A4 D0 15 52 01 BE F4 88 8E F4 C2 76 10    defined also: X0FC,X101,X10D,and X112;
X120  0A 4D 2D FF E2 60 98 11 1D 73 BF 0A 8E F5 64 76    where X = 1,2,3,4,5,6,7,8,9,A,B,C,D,or E.
X130  10 0A 3C 8E F4 7E 74 40 0A 8E F5 64 76 10 0A 42
X140  48 37 34 79 00 35 D5 37 73 FD 0B 52 02 8E F4 88
X150  8E F4 9E 98 0F 03 98 03 11 8E F7 4B 77 80 0B 0A
X160  DB 39 8E F3 47 C9 C9 8C F1 36 C9 C9 8C F3 F4 D3
X170  15 E7 02 D3 14 52 02 8E F4 88 72 01 37 73 FD 0B
X180  E0 99 52 03 E0 F1 D9 03 D9 02 D5 37 73 FD 0B 8C

X190  F3 EE FF 13 6E 24 B9 13 5A 0B 01 21 13 00 12 0F   ←sample
                                                         ENCODED
X1A0  00 01 41 22 27 14 8D FF FF 13 61 B0 21 6A 14 89    EXCEPTION-WORDS.
X1B0  FF FF FF FF 13 E9 13 4A 07 0B 33 3E 00 0C 0B 37    (see table 4).
X1C0  0D 27 1F 10 07 0B 02 BD 13 E9 2D 21 29 2C 13 4A
X1D0  07 0B 33 3E 00 0C 0B 37 0D 27 1F 10 07 0B 02 8D
X1E0  FF FF 13 E4 13 46 00 21 07 0B 02 0D 0C 28 0C 02
X1F0  2A 14 25 0F BB 13 73 2C A5 13 46 01 BE 13 73 2C    (see APPENDIX-C
X200  21 2E A4 13 46 00 2D 1A 0B 01 15 01 FF FF FF 13    for discussion
X210  69 36 25 A4 13 6D 0C 23 03 95 FF FF FF FF 13 75    of encoding scheme.)
X220  32 30 2F 33 A5 13 49 33 09 0F 37 B7 FF FF FF FF
X230  13 6F 34 21 AC 13 4D 35 0D 00 0F BE FF 13 73 25
X240  32 29 A4 13 71 16 2B 33 01 06 00 21 07 0B 02 0D
X250  0C 28 0C 02 2A 14 25 0F BB FF FF 13 65 07 32 A5
X260  6E 13 B4 FF FF 13 6F 35 07 32 A5 13 59 BA FF FF
X270  13 CF 13 59 3A 01 10 07 37 37 0C 01 0A 00 02 2A
X280  1A 0B 01 3F 13 00 37 37 02 09 35 02 2A 07 0B 00
X290  2E 0C 1D 00 12 0F 00 02 0D 0F 02 32 00 0F 23 00
X2A0  14 00 02 2A 13 80 C6 5A 0B 15 80 FF
      |0 |1 |2 |3 |4 |5 |6 |7 |8 |9 |A |B |C |D |E |F
```

YOUR EXCEPTION-WORD EPROM CAN RESIDE ANYWHERE FROM 1000H TO E000H, PROVIDING IT BEGINS ON A 4K BOUNDARY WHERE X = 1,2,3,4,5,6,7,8,9,A,B,C,D,or E.

APPENDIX-B

Exception-Word Eprom Map (For use without USER eprom present)

NOTE: ENCAPSULATED SEQUENCES ARE USER-DEFINED, REFER TABLES 2,3, AND 4.

```
      |0 |1 |2 |3 |4 |5 |6 |7 |8 |9 |A |B |C |D |E |F

X000 80 48 28 58 85 E0 35 E0 31 FF FF FF FF FF FF FF   ←sample
                                                        NEW PARAMETERS.
X010 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF    (see table 2).

X020 FF FF FF 1E 1F 20 21 28 29 24 25 22 23 2A 2B 26   ←NEW PARAMETER
                                                        INITIALIZATION
X030 27 2C 2D 2E 2F 32 33 34 35 36 E0 65 78 02 31 BE    ROUTINE.
X040 F1 43 C5 AA X0 09 2D FF E2 1E B8 AA X0 23 D5 12    The MSnibble of the following locataions
X050 D0 13 B9 9B 13 C3 AA X0 09 2D FF E2 0B B8 AA X0    from the NEW PARAMETER INITIALIZATION
X060 23 D5 12 D0 13 B9 9B 13 5D 16 E6 E9 C3 AA X0 09    ROUTINE are user defined also:
X070 2D FF E2 14 A2 40 11 82 11 A2 15 11 C3 AA X0 09    X044,X04C,X057,X05F,X06E,X07E,and X084;
X080 82 15 C3 AA X0 09 82 14 98 29 03 98 2B 07 22 20    where X = 1,2,3,4,5,6,7,8,9,A,B,C,D,or E.
X090 9B 03 BE F7 2B 9B 03 05 98 07 09 98 03 19 8C MS   ←(see note 1 below).

X0A0 LS E0 36 X1 93 X1 AB X1 A9 X1 B1 X1 B2 X1 B3 X1   ←sample
                                                        ALPHABETIZED
X0B0 B4 X1 E1 X1 E2 X2 0D X2 0E X2 0F X2 1B X2 1C X2    EXCEPTION-WORD
X0C0 1D X2 1E X2 2D X2 2E X2 2F X2 30 X2 3D X2 5A X2    INDEX, where X = 1,2,3,4,5,6,7,8,9,A,B,C,D,or E.
                                                        (see table 3).
X0D0 5B 82 64 82 65 82 6F 82 70 D8 02 D8 03 98 03 11   ←EXCEPTION-WORD
                                                        ROUTINE.

X0E0 BE F7 4B 8E F7 0F 77 01 0A 05 74 80 0B E0 03 73
X0F0 7F 0B BE F3 AF 76 20 0A 0E 52 34 AA 80 A3 D0 14    The MSnibble of the following locations
X100 AA 80 A4 D0 15 E0 0F C5 2A 41 2C 02 AA 80 A3 D0    from the EXCEPTION-WORD ROUTINE are user
X110 14 AA 80 A4 D0 15 52 01 BE F4 88 8E F4 C2 76 10    defined also: X0FC,X101,X10D,and X112;
X120 0A 4D 2D FF E2 60 98 11 1D 73 BF 0A BE F5 64 76    where X = 1,2,3,4,5,6,7,8,9,A,B,C,D,or E.
X130 10 0A 3C 8E F4 7E 74 40 0A 8E F5 64 76 10 0A 42
X140 48 37 34 79 00 33 D5 37 73 FD 0B 52 02 8E F4 88
X150 8E F4 9E 96 0F 03 98 03 11 8E F7 4B 77 80 0B 0A
X160 DB 39 BE F3 47 C9 C9 8C F1 36 C9 C9 8C F3 F4 D3
X170 15 E7 02 D3 14 52 02 BE F4 88 72 01 37 73 FD 0B
X180 E0 99 52 D3 E0 F1 D9 03 D9 02 D5 37 73 FD 0B 8C

X190 F3 EE FF 13 6E 24 B9 15 5A 0B 01 21 13 00 12 0F   ←sample
                                                        ENCODED
X1A0 00 01 41 22 27 14 8D FF FF 13 61 B0 21 6A 14 89    EXCEPTION-WORDS.
X1B0 FF FF FF FF 13 E9 13 4A 07 0B 33 3E 00 0C 0B 37    (see table 4).
X1C0 0D 27 1F 10 07 0B 02 8D 13 E9 2D 21 29 2C 13 4A
X1D0 07 0B 33 3E 00 0C 0B 37 0D 27 1F 10 07 0B 02 BD
X1E0 FF FF 13 E4 13 46 00 21 07 0B 02 0D 0C 2B 0C 02
X1F0 2A 14 25 0F BB 13 73 2C A5 13 46 01 BE 13 73 2C
X200 21 2E A4 13 46 00 2D 1A 0B 01 15 01 FF FF FF 13    (see APPENDIX-C
X210 69 36 25 A4 13 6D 0C 23 03 95 FF FF FF FF 13 75    for discussion
X220 32 30 2F 33 A5 13 49 33 09 0F 37 B7 FF FF FF FF    of encoding scheme).
X230 13 6F 34 21 AC 13 4D 35 0D 00 0F BE FF 13 73 25
X240 32 29 A4 13 71 16 2B 33 01 06 00 21 07 0B 02 0D
X250 0C 28 0C 02 2A 14 25 0F BB FF FF 13 65 07 32 A5
X260 6E 13 B4 FF FF 13 6F 35 07 32 A5 13 59 BA FF FF
X270 13 CF 13 59 3A 01 10 07 37 37 0C 01 0A 00 02 2A
X280 1A 0B 01 3F 13 00 37 37 02 09 35 02 2A 07 0B 00
X290 2E 0C 1D 00 12 0F 00 02 0D 0F 02 32 00 0F 23 00
X2A0 14 00 02 2A 13 80 C6 5A 0B 15 80 FF
```

NOTE: 1. APPENDIX-B is the same as APPENDIX-A, except for two address. These are X09F and X0A0 (MSB and LSB respectively, labeled MS and LS above). Place the origin of the MAIN-CONTROL-PROGRAM (see APPENDIX-F) in these locations so that program control will transfer to the user's code at the appropriate time.

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APPENDIX-C

Exception-Word Encoding Scheme

To store a unique word or symbol and its corresponding allophone address string in an efficient and flexible manner, the following encoding format was derived:

<[encoded word or symbol]< = [encoded allophone address(es)]

where: < equals 13H.
[equals 40H.
] equals 80H.

The first and last byte is 13H. This informs the code-to-speech algorithm that the word or symbol is not a prefix or suffix.

If the word or symbol is an individual letter, then the representation of it between the brackets is an FFH; this includes the value of the left and right brackets.

Otherwise:
(1) The first letter in the word or symbol is always to be ignored.
(2) The next letter in the word is represented by the value of the letter from TABLE-7, plus the value of the left bracket "[" which is 40H.
(3) The following letter(s), if and only if it is not the last letter in the word or symbol, is represented solely by its value from TABLE-7.
(4) The last letter in the word or symbol is represented by the value of the letter from TABLE-7, plus the value of the right bracket "]" which is 80H.

The allophone address string is encoded in a similar manner:

If only one allophone is used for the pronunciation, it is represented by its value from TABLE-6, plus the value of the right "[" and left "]" brackets which are 40H and 80H respectively.

Otherwise:
(1) The first allophone is represented by its value from TABLE-8, plus the value of the left bracket "[" which is 40H.
(2) The following allophone(s), if and only if it is not the last allophone in the string, is represented by its value from TABLE-8.
(3) The last allophone is represented by its value from TABLE-8 plus the value of the right bracket "]" which is 80H.

```
Example:  To encode "Au" to pronounce as "GOLD"
          <[Au]<  = [GG2 0W LL DD1]
          13,F5,13,   7D,   35,2D,95  ←This line is ready to store in EXCEPTION-WORD epros under the "A" category.
              ↑                             (The encoded string is shown in Hexadecimal notation.)
             —Remember, throw away the first letter (in this case an "A"), then find the value of the next letter in TABLE-7 and
               add 40H plus 80H to it so as to represent the left "[" and right "]" brackets.
```

APPENDIX-D

User Eprom Map (For use without EXCEPTION-WORD eprom)

NOTE: ENCAPSULATED SEQUENCES ARE USER-DEFINED, REFER TABLES 2,3, AND 4.

```
      |0 |1 |2 |3 |4 |5 |6 |7 |8 |9 |A |B |C |D |E |F

X000  80 48 28 58 85 E0 35 E0 31 FF FF FF FF FF FF FF  ←sample
                                                         NEW PARAMETERS.
X010  FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF    (see table 1).

X020  FF FF FF 1E 1F 20 21 28 29 24 25 22 23 2A 2B 26  ←NEW PARAMETER
                                                         INITIALIZATION
X030  27 2C 2D 2E 2F 32 33 34 35 36 E0 65 78 02 31 BE    ROUTINE.
X040  F1 43 C5 AA X0 09 2D FF E2 1E B8 AA X0 23 D5 12    The MSnibble of the following locations
X050  D0 13 B9 9B 13 C3 AA X0 09 2D FF E2 0B B8 AA X0    from the NEW PARAMETER INITIALIZATION
X060  23 D5 12 D0 13 B9 9B 13 5D 16 E6 E9 C3 AA X0 09    ROUTINE are user defined also:
X070  2D FF E2 14 A2 40 11 82 11 A2 15 11 C3 AA X0 09    X044,X04C,X057,X05F,X06E,X07E,and X084;
X080  82 15 C3 AA X0 09 82 14 98 29 03 98 2B 07 22 20    where X = 1,2,3,4,5,6,7,8,9,A,B,C,D,or E.
X090  9B 03 BE F7 2B 9B 03 05 98 07 09 98 03 19 8C MS  ←(see note A on following page).
```

APPENDIX-D (Cont'd)

```
X0A0 LS 8C F3 F4 ┌─────────────────────────────────────────┐
   ┌─────────────┘ User code may start at X0A4,               │
   │ but must contain the MAIN-CONTROL-PROGRAM                │
   │ somewhere within, refer to APPENDIX-F.                   │
```

NOTE A. Place the immediate address of the origin of the MAIN-CONTROL-PROGRAM (see APPENDIX-F) in these locations; so that program control will transfer to the user's code at the appropriate time.

APPENDIX-E

USER EPROM MAP (For use with EXCEPTION-WORD eprom)

NOTE 1. Contains no reserved locations, except for the MAIN-CONTROL-PROGRAM. (See APPENDIX-F).

NOTE 2. A user's code does not have to reside in a second eprom (USER eprom). It may reside in an unused portion of an EXCEPTION-WORD eprom which is for use where "USER eprom is present". Refer APPENDIX-B.

APPENDIX-F

USER's MAIN CONTROL PROGRAM (For residency anywhere within USER eprom).

NOTE: ENCAPSULATED AREAS ARE USER DEFINED UNLESS OTHERWISE NOTED.

```
F1AC =          AUDIBLE   EQU 0F1ACH   ;< ──│
F3E7 =          GISPEECH  EQU 0F3E7H   ;< ──│ THESE ARE ADDRESS VECTORS WITHIN
F1E2 =          SAVE      EQU 0F1E2H   ;< ──│ THE MASKED CODE-TO-SPEECH ALGORITHM.
F1F0 =          ESCAPE    EQU 0F1F0H   ;< ──│
000B =          F2        EQU R11
0002 =          F1HI      EQU R2
0003 =          F1LO      EQU R3
0004 =          R1HI      EQU R4
0005 =          R1LO      EQU R5
0007 =          F2LO      EQU R7
0009 =          R2LO      EQU R9
0038 =          WORDCNTH  EQU R56
0039 =          WORDCNTL  EQU R57
0032 =          BUFBVALU  EQU R50
0000 =          IOCNT0    EQU P0

9000        ┌─────────────┐      ;This is the origin of the Main Control Program which is defined by the user.
            │ ORG > 9000  │      ;Here it is arbitrarily chosen to be 9000H. Remember to place this immediate
            └─────────────┘      ;address in the "MS","LS" locations of the EXCEPTION-WORD eprom ("for use
                                 ;with USER eprom"), see APPENDIX-B. (MS = MSB = 90 and the LS = LSB = 00 in
                                 ;this example.)
9000 BEF1AC  MESSAGE: CALL @AUDIBLE
+ ────────── THIS ENCAPSULATED AREA IS NOT USER DEFINED ────────── +
| The following two lines are placed here only if the user code wishes to gain  |
| access to the serial port.                                                     |   (The XXXX XXXX here does
                                                                                     not have the same meaning
| XXXX XXXX          ANDP %>FE,IOCNT1   ;DISABLE INTERRUPT-4 (SERIAL             |   as the X from the previous
                                        PORT).                                       appendices and tables.)

| XXXX XXXX          ANDP %FE,PORTB     ;SET BUSY* LO.                            |

+ ──────────────────────────────────────────────────────────────── +
9003 E00E               JMP ANYSTART

                    ┌──────────────────┐  ;THE BRANCH ADDRESS BELOW IS USER DEFINED.
9005 BC9046  CRSTART: │ BR @USERCODE     │  ;AFTER INITIALIZATION OR AFTER PROCESSING AND
                    └──────────────────┘  ;SPEAKING WHAT HAS BEEN LOADED INTO THE INPUT
                                          ;BUFFER CONTROL TRANSFERS TO THE USER CODE VIA THIS
                                          ;BRANCH INSTRUCTION.
```

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APPENDIX-F (Cont'd)

```
900B 76010B07   SPEAK:      BTJO %>01,F2,ANYSTART
900C 73EF0B                 AND %>EF,F2
900F 77100BFC   CRWAIT:     BTJZ %10,F2,CRWAIT
9013 4D0305     ANYSTART:   CMP F1LO,R1LO
9016 E607                   JNE HOLEWORD
9018 4D0204                 CMP F1HI,R1HI
901B E602                   JNE HOLEWORD
901D E0E6                   JMP CRSTART
901F 7D0038     HOLEWORD:CMP %>00,WORDCNTH
9022 E605                   JNE BFULTEST
9024 7D0039                 CMP %>00,WORDCNTL
9027 E2F6                   JEQ HOLEWORD
9029 770B0B09   BFULTEST:   BTJZ %>08,F2,PROCESS
902D 7D0132     LOCKUP:     CMP %>01,BUFBVALU
9030 E211                   JEQ ESC
9032 760B0BFC   BFULHOLD:   BTJO %>08,F2,BFULHOLD
9036 BEF3D7     PROCESS:    CALL @GISPEECH
9039 4DO709     MAINROUT:   CMP F2LO,R2LO
903C E205                   JEQ ANYSTART
903E A40100                 DRP %>01,1OCNT0
9041 E0D0                   JMP ANYSTART
9043 BCF1F0     ESC:        BR @ESCAPE

9046 00         USERCODE: NOP         ;FROM THIS POINT IT IS THE USER CODES RESPONSIBILITY
                                      ;TO EXECUTE ITS OWN CODE OR TO LOAD A CHARACTER
                                      ;STRING INTO THE INPUT BUFFER.
                                      ;THE TWO EXAMPLES SHOWN BELOW DEMONSTRATE THE
                                      ;RECOMMENDED SEQUENCE OF EVENTS FOR EACH MODE.
                                      ;MODE 1 IS USED WHEN THE USER CODE HAS PREVIOUSLY
                                      ;PREPARED THE CHARACTER STRING IT WISHES TO HAVE
                                      ;SPOKEN; MODE 2 IS USED WHEN THE USER CODE WISHES
                                      ;TO EXECUTE ANYTHING ELSE.
                                      ;
                MODE1:                ;LOADING INPUT BUFFER OF CODE-TO-SPEECH ALGORITHM:
                                      ;
                                      ;ACCUMULATOR AND STATUS REGISTER ARE TO BE SAVED.
                                      ;NO OTHER REGISTER IS TO BE MODIFIED.
                                      ;Loading a character string is accomplished
                                      ;by placing each character into the Accumulator and
                                      ;then using CALL @SAVE to load it into the input
                                      ;buffer. Remember to end each word or phrase with a
                                      ;delimeter. Restore the Accumulator and the Status Registers. Call @SPEAK to
                                      ;process
                                      ;and speak the word(s) or phrase(s) that were loaded.
                                      ;
```

NOTE: Once "SPEAK" is initiated, control does not return to the USERCODE until the last word or phrase that is in the input buffer has been processed by the code-to-speech algorithm. NOTE: Because of masked code-to-speech restrictions, the USER can not intercept input from the serial port while speech processing is in progress. During this interval, handshaking (BUSY*) shall hold off additional serial communication. This is accomplished by the two encapsulated lines shown above.

```
                                      ;
                                      ;THE FOLLOWING EXAMPLE WILL LOAD THE LETTER "A" AND
                                      ;SPEAK IT:

9047   0E          PUSH ST            ;SAVE CONTENTS OF STATUS REGISTER.
9048   B8          PUSH A             ;SAVE CONTENTS OF ACCUMULATOR.
9049   2241        MOV %>41,A         ;MOVE 41H (which is ASCII "A") into the ACCUMULATOR.
904B   8EF1E2      CALL @SAVE         ;LOAD THE ASCII "A" INTO THE INPUT BUFFER.
904E   222D        MOV %>0D,A         ;MOVE 0DH (which is a carriage return).
9050   BEF1E2      CALL @SAVE         ;LOAD THE DELIMETER INTO THE INPUT BUFFER.
9053   B9          POP A              ;RECOVER CONTENTS OF ACCUMULATOR.
9054   08          POP ST             ;RECOVER CONTENTS OF STATUS REGISTER.
9055   8C900B      BR @SPEAK          ;TRANSFER CONTROL TO THE MAIN-CONTROL-PROGRAM WHICH

                                      ;WILL ACCESS THE CODE-TO-SPEECH ALGORITHM; AFTER WHICH
                                      ;THE CONTROL WILL RETURN TO THE "BR @USERCODE" INSTRUCTION
                                      LOCATION.
```

APPENDIX-F (Cont'd)

```
9058 00          MODE2:  NOP        ;
                                    ;The following is the recommended
                                    ;sequence of events necessary for the user's code
                                    ;to do anything else (except for loading the input
                                    ;buffer as described under MODE 1.)
                                    ;
                                    ;SAVE STATUS REGISTER
                                    ;SAVE REGISTER 0 THRU 39H (EXTERNAL-RAM MODE), along with 3AH thru
                                    ;current Stack Pointer.
                                    ;OR, SAVE REGISTER 0 THRU 7FH (INTERNAL-RAM MODE).
                                    ;(DO NOT USE PUSH INSTRUCTIONS TO SAVE THE REGISTERS BECAUSE
                                    ;THE STACK IS NOT LARGE ENOUGH, INSTEAD
                                    ;BLOCK MOVE THE RESPECTIVE REGISTER CONTENTS INTO
                                    ;EXTERNAL-USER-RAM.
                                    ;
                                    ;USER DEFINED CODE GOES HERE NEXT.
                                    ;
                                    ;(TO READ THE SERIAL PORT, SEE THE EXAMPLE SEQUENCE BELOW).
                                    ;
                                    ;THEN RECOVER RESPECTIVE REGISTERS.
                                    ;RECOVER STATUS REGISTER.
                                    ;BRANCH TO MODE 1, OR BRANCH TO OTHER USER CODE such as the
                                    ;example shown below
                                    ;for reading the serial port.
                                    ;The following is the recommended sequence of events necessary
                                    ;for the user's code to obtain input from the serial port:
                                    ;
LOOP:   DRP %>01,IOCNT1             ;ENABLE INTERRUPT-4 (SERIAL PORT) BECAUSE WANT TO RECEIVE SERIAL
                                    ; INPUT.
        DRP %>01,PORTB              ;SET BUSY$ HI.
        IDLE                        ;WAIT HERE FOR SERIAL INTERRUPT TO OCCUR AND TO BE SERVICED.
        ANDP %>FE,IOCNT1            ;DISABLE INTERRUPT-4 (SERIAL PORT).

                                    ;
      NOP                           ;THE CHARACTER RECEIVED BY SERIAL PORT IS IN THE ACCUMULATOR,
                                    ;SO THE USER MAY EVALUATE IT HERE.
                                    ;
      MOV %>08,A                    ;LOAD A "BACKSPACE" INTO ACCUMULATOR IN ORDER TO TELL
      CALL @SAVE                    ;THE CODE-TO-SPEECH INPUT BUFFER TO IGNORE THE CHARACTER
                                    ;WHICH ARRIVED VIA THE SERIAL PORT.
                                    ;

      NOP                           ;IF USER WANTS ADDITIONAL CHARACTERS FROM THE SERIAL PORT TO

                                    ;EVALUATE:
                                    ;JUMP TO LOOP TO WAIT FOR NEXT SERIAL PORT INTERRUPT (JMP LOOP).
                                    ;
                                    ;OTHERWISE: ENABLE INTERRUPT-4 (DRP %>01,IOCNT1), SET BUSY$ LO
                                    ;(ANDP %>FE,PORTB),
                                    ;THEN FALL THRU TO REST OF USER CODE.
```

NOTE: To successfully incorporate a USER program with the code-to-speech algorithm requires a thorough understanding of the concepts described in this application note, and an in-depth working knowledge of PIC7001 assembly language.

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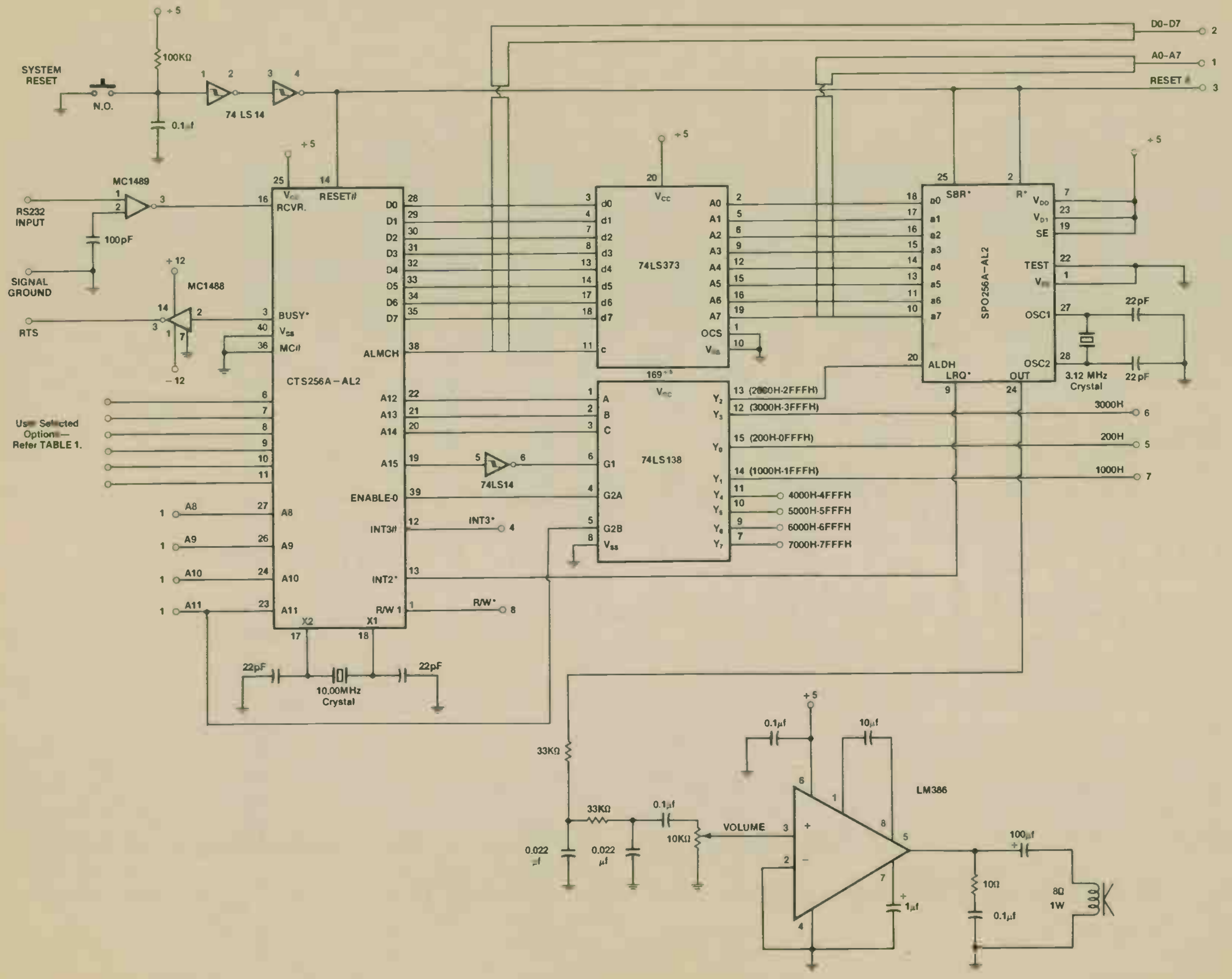
TYPICAL APPLICATION



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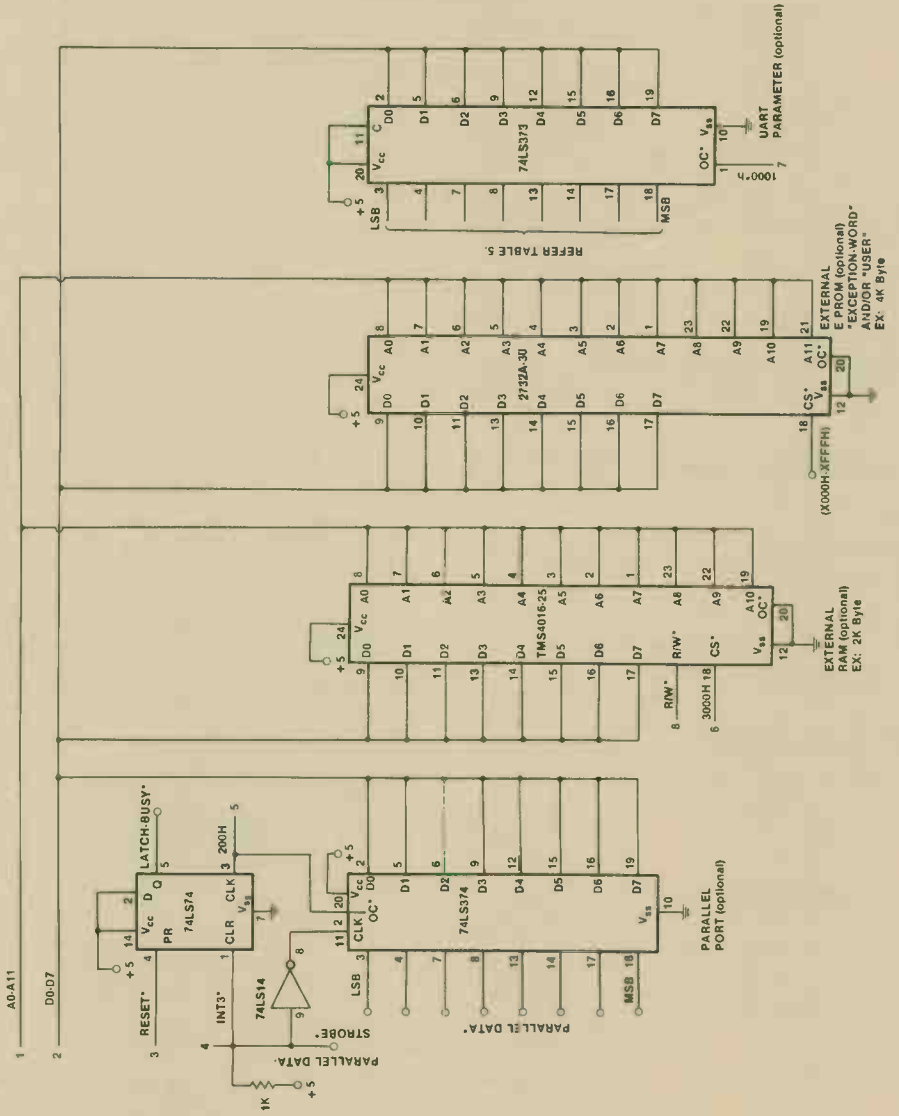
TYPICAL APPLICATION

(USER OPTIONS)



SP0256
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SPEECH PROCESSOR

GENERAL DESCRIPTION

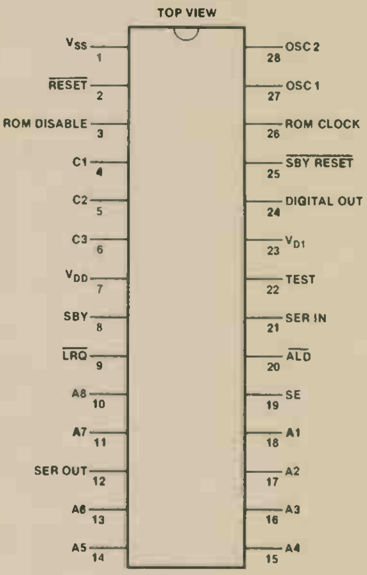
The SPO256 (Speech Processor) is a single chip N-Channel MOS LSI device that is able, using its stored program to synthesize speech or complex sounds.

The achievable output is equivalent to a flat frequency response ranging from 0 to 5KHz, a dynamic range of 42dB, and a signal to noise ratio of approximately 35 dB.

The SPO256 incorporates four basic functions:

A. A software programable digital filter that can be made to model a VOCAL TRACT.
B. A 16K ROM which stores both data and instructions (THE PROGRAM).
C. A MICROCONTROLLER which controls the data flow from the ROM to the digital filter, the assembly of the "word settings" necessary for linking speech elements together, and the amplitude and pitch information to excite the digital filter.
D. A PULSE WIDTH MODULATOR that creates a digital output which is converted to an analog signal when filtered by an external low pass filter.

PIN CONNECTION



FEATURES

- Natural Speech
- Wide Operating Voltage
- Simple Interface to Most Microcomputers or Microprocessors
- Supports L.P.C. Synthesis: Formant Synthesis: Allophone Synthesis

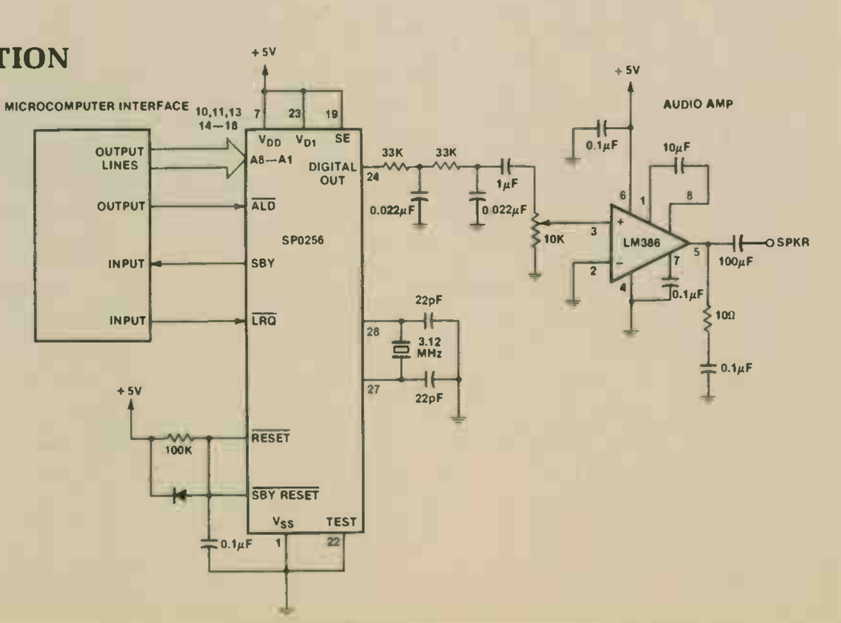
ABSOLUTE MAXIMUM RATINGS

Supply Voltage (V_{DD})	7 V
(V_{D1})	7 V
All Pins With Respect to V_{SS})	−0.3 To 8 V
Supply Current (I_{DD}) (V_{D1}, V_{DD}=7V) (Reset and SBY Reset High)	90 mA
Supply Current (I_{D1} (V_{D1}, V_{DD}=7V) (Reset and SBY Reset High)	21 mA
Storage Temperature Range	−25°C To 125°C
Operating Temperature Range	0°C To 70°C

STANDARD CONDITIONS

Clock-Crystal Frequency	3.120 MHz

TYPICAL APPLICATION



SPEECH PROCESSOR

ALLOPHONE USAGE WITH A MICROPROCESSOR

The SPO256 requires the use of a processor to concatenate the speech sounds to form words.

The SPO256 is controlled using the address pins (A1-A8), ALD (Address Load), and SE (Strobe Enable). The object for controlling the chip is to load an address into it which contains the desired allophone. The speech data for the allophone set is contained within the internal 16 K ROM of the SPO256.

This particular application (Allophone Set) requires only six address pins (A1-A6) to address all the 59 allophones plus five pauses, a total of 64 locations. For simplicity, since only six address pins are needed to address the 64 locations, pins A7 and A8 can be tied low (to ground) and now any further references to the address bus will include A1-A6 and A7=A8=0.

There are two modes available for loading an address into the chip. SE (Strobe Enable) controls the mode that will be used.

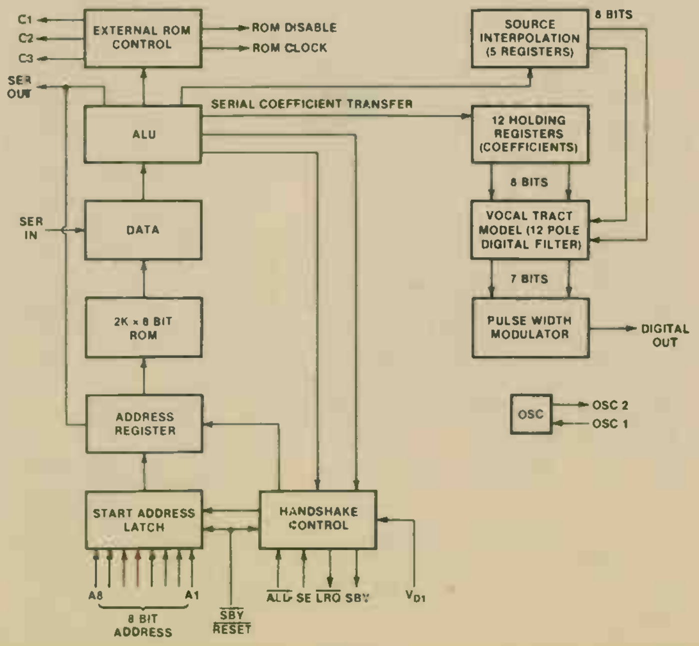
Mode 0. (SE=0) will latch in an address when any one or more of the address pins makes a low to high transition. For example, to load the address one (1), A2 to A6=0 and A1 is pulsed high. To load the address twelve (12 octal), A1=A3=A5=A6=0, A2 and A4 are pulsed high simultaneously. (Note that an address of zero cannot be loaded using this mode).

Mode 1 (SE=1) will latch in an address using the ALD pin. First, setup the desired address on the address bus (A1=A6) and then pulse ALD low. Any address can be loaded using this mode, but certain setup and hold times are required.

Two microprocessor interface pins are available for quick loading of addresses. They are LRQ and SBY. LRQ (Load Request) tells the processor when the input buffer is full. SBY (Stand By) tells the processor that the chip has stopped talking and no new address has been loaded. Either interface pin can be used when concatenating allophones. LRQ is an active low signal, when LRQ goes low it is time to load a new address to the chip. If LRQ is high, then simply wait for it to go low before loading the address. SBY will stay high until an address is loaded, then it will go low and stay low until all the internal instructions (Speech Code) from that one address are completed. Once this signal goes high, it is time to load a new address. Since speech does not require very fast address loading, it would be acceptable to use SBY to interface to the processor.

To end a word using allophones it is necessary to load a pause to complete the word. For example, the word "TWO" can be implemented using the following allophones, TT2-VW2-PA1. PA1 is actually not an allophone but a pause which is needed to end the word.

BLOCK DIAGRAM



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ALLOPHONE BASED SPEECH PROCESSOR—SP0256-AL2

PIN FUNCTIONS

PIN NUMBER	NAME	FUNCTION
1	V_{SS}	Ground
2	$\overline{\text{RESET}}$	A logic 0 resets that portion of the SP powered by V_{DD}. Must be returned to a logic 1 for normal operation.
3	ROM DISABLE	For use with an external serial speech ROM, a logic 1 disables the external ROM.
4, 5, 6	C1, C2, C3	Output control lines for use with an external serial speech ROM.
7	V_{DD}	Power supply for all portions of the SP except the microprocessor interface logic.
8	SBY	STANDBY. A logic 1 output indicates that the SP is inactive and V_{DD} can be powered down externally to conserve power. When the SP is reactivated by an address being loaded, SBY will go to a logic 0.
9	$\overline{\text{LRQ}}$	$\overline{\text{LOAD REQUEST}}$. $\overline{\text{LRQ}}$ is a logic 1 output whenever the input buffer is full. When $\overline{\text{LRQ}}$ goes to a logic 0, the input port may be loaded by placing the 8 address bits on A1-A8 and pulsing the $\overline{\text{ALD}}$ output.
10, 11, 13, 14, 15, 16, 17, 18,	A8, A7, A6, A5, A4, A3, A2, A1	8 bit address which defines any one of 256 speech entry points.
12	SER OUT	SERIAL ADDRESS OUT. This output transfers a 16-bit address serially to an external speech ROM.
19	SE	STROBE ENABLE. Normally held in a logic 1 state. When tied to ground, $\overline{\text{ALD}}$ is disabled and the SP will automatically latch in the address on the input bus approximately 1μs after detecting a logic 1 on any address line.
20	$\overline{\text{ALD}}$	$\overline{\text{ADDRESS LOAD}}$. A negative pulse on this input loads the 8 address bits into the input port. The negative edge of this pulse causes $\overline{\text{LRQ}}$ to go high.
21	SER IN	SERIAL IN. This is an 8-bit serial data input from an external speech ROM.
22	TEST	This pin should be grounded for normal operation.
23	VD1	Power supply for the microprocessor interface logic and controller.
24	DIGITAL OUT	Pulse width modulated digital speech output which, when filtered by a 5KHz low pass filter and amplified, will drive a loudspeaker.
25	$\overline{\text{SBY RESET}}$	$\overline{\text{STANDBY RESET}}$. A logic 0 resets the microprocessor interface logic and the address latches. Must be returned to a logic 1 for normal operation.
26	ROM CLOCK	This is a 1.56MHz clock output used to drive an external serial speech ROM.
27	OSC1	XTAL IN. Input connection for a 3.12MHz crystal.
28	OSC2	XTAL OUT. Output connection for a 3.12MHz crystal

ALLOPHONE SPEECH SYNTHESIS

INTRODUCTION

The allophone speech synthesis technique provides the user with the ability to synthesize an unlimited vocabulary at a very low bit rate. Fifty-nine discrete speech sounds (called allophones) and five pauses are stored at different addresses in the SPO256 internal ROM. Each speech sound was excised from a word and analyzed using linear predictive coding (LPC). Any English word or phrase can be created by addressing the appropriate combination of allophones and pauses. Since there is a total of 64 address locations each requires a 6 bit address. Assuming that speech contains 10 to 12 sounds per second, allophone synthesis requires addressing less than 100 bits per second.

LINGUISTICS

A few basic linguistic concepts will help you start your own library of "allophone words". (See Table 1 for Allophone Dictionary). First, there is no one-to-one correspondence between written letters and speech sounds; secondly, speech sounds are acoustically different depending upon their position within

LINGUISTICS (Continued)

a word; and lastly, the human ear may perceive the same acoustic signal differently in the context of different sounds.

The first point compares to the problem that a child encounters when learning to read. Each sound in a language may be represented by more than one letter and, conversely each letter may represent more than one sound. (See the examples in Table 2.) Because of these spelling irregularities, it is necessary to think in terms of sounds, not letters, when using allophones.

The second, and equally important, point to understand, is that the acoustic signal of a speech sound may differ depending upon its position within a word. For example, the initial *K* sound in *coop* will be acoustically different from the *K*'s in *keep* and *speak*. The *K*'s in *coop* and *keep* differ due to the influence of the vowels which follow them, and the final *K* in speak is usually not as loud as initial *K*'s.

Finally, a listener may identify the same acoustic signal differently depending on the context in which it is perceived. Don't be surprised, therefore, if an allophone word sounds slightly different when used in various phrases.

PHONEMES OF ENGLISH

The sounds of a language are called phonemes, and each language has a set which is slightly different from that of other languages. Table 3 contains a chart of all the consonant phonemes of English, table 4 all the vowel phonemes.

Consonants are produced by creating an occlusion or constriction in the vocal tract which produces an aperiodic sound source. If the vocal cords are vibrating at the same time, as in the case of the voiced fricatives VV, DH, ZZ, and ZH, (See Table 5) there are two sound sources: one which is aperiodic and one which is periodic.

Vowels are usually produced with a relatively open vocal tract and a periodic sound source provided by the vibrating vocal cords. They are classified according to whether the front or back of the tongue is high or low (See Table 4) whether they are long or short, and whether the lips are rounded or unrounded. In English all rounded vowels are produced in or near the back of the mouth (UW, UH. OW, AO, OR, AW).

Speech sounds which have features in common behave in similar ways. For example, the voiceless stop consonants PP, TT and KK (See Table 3) should be preceded by 50-80 msec of silence, and the voiced stop consonants BB, DD, and GG by 10-30 msec of silence.

ALLOPHONES

Phoneme is the name given to a group of similar sounds in a language. Recall that a phoneme is acoustically different depending upon its position within a word. Each of these positional variants is an allophone of the same phoneme. An allophone, therefore, is the manifestation of a phoneme in the speech signal. It is for this reason that our inventory of English speech sounds is called an allophone set.

HOW TO USE THE ALLOPHONE SET

(See Table 1 for instructions on how to create all the sample words mentioned in this section.) The allophone set (Refer to Table 5) contains two or three versions of some phonemes. It may be necessary to use one allophone of a particular phoneme for word-or-syllable-final position. A detailed set of guidelines for using the allophones is given in Table 5. Note that these are suggestions, not rules.

For example, DD2 sounds good in initial position and DD1 sounds good in final position, as a "daughter" and "collide." One of the differences between the initial and final versions of a consonant is that an initial version may be longer than the final version. Therefore, to create an initial SS, you can use two SSs instead of the usual single SS at the end of a word or syllable, as in "sister." Note that this can be done with TH and FF, and the inherently short vowels (to be discussed below), but with no other consonants. You will want to experiment with some consonant clusters (strings of consonants such as str, cl) to discover which version works best in the cluster. For example, KK1 sounds good before LL as in "clown," and KK2 sounds good before WW as in "square." One allophone of a particular phoneme may sound better before or

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HOW TO USE THE ALLOPHONE SET (Continued)

after back vowels and another before or after front vowels. KK3 sounds good before UH and KK1 sounds good before IY, as in "cookie." Some sounds (PP, BB, TT, DD, KK, GG, CH, and JH) require a brief duration of silence before them. For most of these, the silence has already been added but you may decide you want to add more. Therefore, there are several pauses included in the allophone set varying from 10–200 msec. To create the final sounds in the words "letter" and "little" use the allophone ER and EL.

Remember that you must always think about how a word sounds, not how it is spelled. For example, the NG sound is represented by the letter N in "uncle". And remember that some sounds may not even be represented in words by any letters, as the YY in "computer".

As mentioned earlier there are some vowels which can be doubled to make longer versions for stressed syllables. These are the inherently short vowels IH, EH, EA, EX, AA, and UH. For example, in the word "extent" use one EH in the first syllable, which is unstressed and two EHs in the second syllable which is stressed. Of the inherently long vowels there is one, UW, which has a long and short version. The short one, UW1, sounds good after YY in computer. The long version, UW2, sounds good in monosyllabic words like "two." Included in the vowel set is a group called R-colored vowels. These are vowel + R combinations. For example, the AR in "alarm" and the OR in "score." Of the R-colored vowels there is one, ER, which has a long and short version. The short version is good for polysyllabic words with final ER sounds like "letter," and the long version is good for monosyllabic words like "fir." One final suggestion is that you may want to add a pause of 30–50 msec. between words, when creating sentences, and a pause of 100–200 msec. between clauses.

Note: Every utterance must be followed by a pause in order to make the chip stop speaking the last allophone.

TABLE 1: THE ALLOPHONE DICTIONARY

NUMBERS

zero	ZZ YR OW
one, won	WW SX ZX NN1
two, to, too	TT2 UW2
three	TH RR1 IY
four, for, fore	FF FF OR
five	FF FF AY VV
six	SS SS IH IH PA3 KK2 SS
seven	SS SS EH EH VV IH NN1
eight, ate	EY PA3 TT2
nine	NN1 AA AY NN1
ten	TT2 EH EH NN1
eleven	IH LL EH EH VV IH NN1
twelve	TT2 WH EH EH LL VV
thirteen	TH ER1 PA2 PA3 TT2 IY NN1
fourteen	FF OR PA2 PA3 TT2 IY NN1
fifteen	FF IH FF PA2 PA3 TT2 IY NN1
sixteen	SS SS IH PA3 KK2 SS PA2 PA3 TT2 IY NN1
seventeen	SS SS EH VV TH NN1 PA2 PA3 TT2 IY NN1
eighteen	EY PA2 PA3 TT2 IY NN1
nineteen	NN1 AY NN1 PA2 PA3 TT2 IY NN1
twenty	TT2 WH EH EH NN1 PA2 PA3 TT2 IY
thirty	TH ER2 PA2 PA3 TT2 IY
forty	FF OR PA3 TT2 IY
fifty	FF FF IH FF FF PA2 PA3 TT2 IY
sixty	SS SS IH PA3 KK2 SS PA2 PA3 TT2 IY
seventy	SS SS EH VV IH NN1 PA2 PA3 TT2 IY
eighty	EY PA3 TT2 IY
ninety	NN1 AY NN1 PA3 TT2 IY
hundred	HH2 AX AX NN1 PA2 DD2 RR2 IH IH PA1 DD1
thousand	TH AA AW ZZ TH PA1 PA1 NN1 DD1
million	MM IH IH LL YY1 AX NN1

DAY OF THE WEEK:

Sunday	SS SS AX AX NN1 PA2 DD2 EY
Monday	MM AX AX NN1 PA2 DD2 EY
Tuesday	TT2 UW2 ZZ PA2 DD2 EY
Wednesday	WW EH EH NN1 ZZ PA2 DD2 EY
Thursday	TH ER2 ZZ PA2 DD2 EY
Friday	FF RR2 AY PA2 DD2 EY
Saturday	SS SS AE PA3 TT2 PA2 DD2 EY

MONTHS:

January	JH AE AE NN1 YY2 XR IY
February	FF EH EH PA2 BR RR2 UW2 XR IY
March	MM AR PA3 CH
April	EY PA3 PP RR2 IH IH LL
May	MM EY
June	JH UW2 NN1
July	JH UW1 LL AY
August	AO AO PA2 GG2 AX SS PA3 TT1
September	SS SS EH PA3 PP PA3 TT2 EH EH PA1 BB2 ER1
October	AA PA2 KK2 PA3 TT2 OW PA1 BB2 ER1
November	NN2 OW VV EH EH MM PA1 BB2 ER1
December	DD2 IY SS SS EH EH MM PA1 BB2 ER1

ALLOPHONE DICTIONARY (Continued)

LETTERS:

A	EY
B	BB2 IY
C	SS SS IY
D	DD2 IY
E	IY
F	EH EH FF FF
G	JH IY
H	EY PA2 PA3 CH
I	AA AY
J	JH EH EY
K	KK1 EH EY
L	EH EH EL
M	EH EH EM
N	EH EH NN1
O	OW
P	PP IY
Q	KK1 YY1 UW2
R	AR
S	EH EH SS SS
T	TT2 IY
U	YY1 UW2
V	VV IY
W	DD2 AX PA2 BB2 YY1 UW2
X	EH EH PA3 KK2 SS SS
Y	WW AY
Z	ZZ IY

DICTIONARY

alarm	AX LL AR MM
bathe	BB2 EH DH2
bather	BB2 EY DH2 ER1
bathing	BB2 EY DH2 IH NG
beer	BB2 YR
bread	BB1 RR2 EH EH PA1 DD1
by	BB2 AA AY
calendar	KK1 AE AE LL EH NN1 PA2 DD2 ER1
clock	KK1 LL AA AA PA3 KK2
clown	KK1 LL AW NN1
check	CH EH EH PA3 KK2
checked	CH EH EH PA3 KK2 PA2 TT2
checker	CH EH EH PA3 KK1 ER1
checkers	CH EH EH PA3 KK1 ER1 ZZ
checking	CH EH EH PA3 KK1 IH NG
checks	CH EH EH PA3 KK1 SS
cognitive	KK3 AA AA GG3 NN1 IH PA3 TT2 IH VV
collide	KK3 AX LL AY DD1
computer	KK1 AX MM PP1 YY1 UW1 TT2 ER
cookie	KK3 UH KK1 IY
coop	KK3 UW2 PA3 PP
correct	KK1 ER2 EH EH PA2 KK2 PA2 TT1
corrected	KK1 ER2 EH EH PA2 KK2 PA2 TT2 IH PA2 DD1
correcting	KK1 ER2 EH EH PA2 KK2 PA2 TT2 IH NG
corrects	KK1 ER2 EH EH PA2 KK2 PA2 TT1 SS
crown	KK1 RR2 AW NN1
date	DD2 EY PA3 TT2
daughter	DD2 AO TT2 ER1
day	DD2 EH EY
divided	DD2 IH VV AY PA2 DD2 IH PA2 DD1
emotional	IY MM OW SH AX NN1 AX EL
engage	EH EH PA1 NN1 GG1 EY PA2 JH
engagement	EH EH PA1 NN1 GG1 EY PA2 JH MM EH EH NN1 PA2 PA3 TT2
engages	EH EH PA1 NN1 GG1 EY PA2 JH IH ZZ
engaging	EH EH PA1 NN1 GG1 EY PA2 JH IH NG
enrage	EH NN1 RR1 EY PA2 JH
enraged	EH NN1 RR1 EY PA2 JH PA2 DD1
enrages	EH NN1 RR1 EY PA2 JH IH ZZ
enraging	EH NN1 RR1 EY PA2 JH IH NG
escape	EH SS SS PA3 KK1 PA2 PA3 PP
escaped	EH SS SS PA3 KK1 PA2 PA3 PP PA2 TT2
escapes	EH SS SS PA3 KK1 PA2 PA3 PP SS
escaping	EH SS SS PA3 KK1 PA2 PA3 PP IH NG
equal	IY PA2 PA3 KK3 WH AX EL
equals	IH PA2 PA3 KK3 WH AX EL ZZ
error	EH XR OR
extent	EH KK1 SS TT2 EH EH NN1 TT2
fir	FF ER2
freeze	FF FF RR1 IY ZZ
freezer	FF FF RR1 IY ZZ ER1
freezers	FF FF RR1 IY ZZ ER1 ZZ
freezing	FF FF RR1 IY ZZ IH NG
frozen	FF FF RR1 OW ZZ EH NN1
gauge	GG1 EY PA2 JH
gauged	GG1 EY PA2 JH PA2 DD1
gauges	GG1 EY PA2 JH IH ZZ
gauging	GG1 EY PA2 JH IH NG
hello	HH EH LL AX OW
hour	AW ER1
infinitive	IH NN1 FF FF IH IH NN1 IH PA2 PA3 TT2 IH VV
intrigue	IH NN1 PA3 TT2 RR2 IY PA1 GG3
intrigued	IH NN1 PA3 TT2 RR2 IY PA1 GG3 PA2 DD1
intrigues	IH NN1 PA3 TT2 RR2 IY PA1 GG3 ZZ
intriguing	IH NN1 PA3 TT2 RR2 IY PA1 GG3 IH NG
investigate	IH IH NN1 VV EH EH SS PA2 PA3 TT2 IH PA1 GG1 EY PA2 TT2
investigated	IH IH NN1 VV EH EH SS PA2 PA3 TT2 IH PA1 GG1 EY PA2 TT2 IH PA2 DD1
investigater	IH IH NN1 VV EH EH SS PA2 PA3 TT2 IH PA1 GG1 EY PA2 TT2 ER1
investigaters	IH IH NN1 VV EH EH SS PA2 PA3 TT2 IH PA1 GG1 EY PA2 TT2 ER1 ZZ
investigates	IH IH NN1 VV EH EH SS PA2 PA3 TT2 IH PA1 GG1 EY PA2 TT1 SS
investigating	EH EH NN1 VV EH EH SS PA2 PA3 TT2 IH PA1 GG1 EY PA2 TT2 IH NG
key	KK1 IY
legislate	LL EH EH PA2 JH JH SS SS LL EY PA2 PA3 TT2
legislated	LL EH EH PA2 JH JH SS SS LL EY PA2 PA3 TT2 IH DD1
legislates	LL EH EH PA2 JH JH SS SS LL EY PA2 PA3 TT1 SS

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ALLOPHONE DICTIONARY DICTIONARY (Continued)

legislating	LL EH EH PA2 JH JH SS SS LL EY PA2 PA3 TT 2 IH NG
legislature	LL EH EH PA2 JH JH SS SS LL EY PA2 PA3 CH ER1
letter	LL EH EH PA3 TT2 ER1
litter	LL IH IH PA3 TT2 ER1
little	LL IH IH PA3 TT2 EL
memory	MM EH EH MM ER2 IY
memories	MM EH EH MM ER2 IY ZZ
minute	MM 1H NN1 IH PA3 TT2
month	MM AX NN1 TH
nip	NN1 IH IH PA2 PA3 PP
nipped	NN2 IH IH PA2 PA3 PP PA3 TT2
nipping	NN1 IH IH PA2 PA3 PP IH NG
nips	NN1 IH IH PA2 PA3 PP SS
no	NN2 AX OW
physical	FF FF IH ZZ IH PA3 KK1 AX EL
pin	PP IH IH NN1
pinned	PP IH IH NN1 PA2 DD1
pinning	PP IH IH NN1 IH NG1
pins	PP IH IH NN1 ZZ
pledge	PP LL EH FH PA3 JH
pledged	PP LL EH EH PA3 JH PA2 DD1
pledges	PP LL EH EH PA3 JH IH ZZ
pledging	PP LL EH EH PA3 JH IH NG
plus	PP LL AX AX SS SS
ray	RR1 EH EY
rays	RR1 EH EY ZZ
ready	RR1 EH EH PA1 DD2 IY
red	RR1 EH FH PA1 DD1
robot	RR1 OW PA2 BB2 AA PA3 TT2
robots	RR1 OW PA2 BB2 AA PA3 TT1 SS
score	SS SS PA3 KK3 OR
second	SS SS EH PA3 KK1 IH NN1 PA2 DD1
sensitive	SS SS EH EH NN1 SS SS IH PA2 PA3 TT2 IH VV
sensitivity	SS SS EH EH NN1 SS SS IH PA2 PA3 TT2 IH VV IH PA2 PA3 TT2 IY
sincere	SS SS IH IH NN1 SS SS YR
sincerely	SS SS IH IH NN1 SS SS YR LL IY
sincerity	SS SS IH IH NN1 SS SS EH EH RR1 IH PA2 PA3 TT2 IY
sister	SS SS IH IH SS PA3 TT2 ER1
speak	SS SS PA3 IY PA3 KK2
spell	SS SS PA3 PP EH EH EL
spelled	SS SS PA3 PP EH EH EL PA3 DD1
speller	SS SS PA3 PP EH EH EL ER2
spellers	SS SS PA3 PP EH EH EL ER2 ZZ
spelling	SS SS PA3 PP EH EH EL IH NG
spells	SS SS PA3 PP EH EH EL ZZ
start	SS SS PA3 TT2 AR PA3 TT2
started	SS SS PA3 TT2 AR PA3 TT2 IH PA1 DD2
starter	SS SS PA3 TT2 AR PA3 TT2 ER1
starting	SS SS PP3 TT2 AR PA3 TT2 IH NG
starts	SS SS PP3 TT2 AR PA3 TT1 SS
stop	SS SS PA3 TT1 AA AA PA3 PP
stopped	SS SS PA3 TT1 AA AA PA3 PP PA3 TT2
stopper	SS SS PA3 TT1 AA AA PA3 PP ER1
stopping	SS SS PA3 TT1 AA AA PA3 PP IH NG
stops	SS SS PA3 TT1 AA AA PA3 PP SS
subject (noun)	SS SS AX AX PA2 BB1 PA2 JH EH PA3 KK2 PA3 TT2
subject (verb)	SS SS AX PA2 BB1 PA2 JH EH EH PA3 KK2 PA3 TT2
sweat	SS SS WW EH EH PA3 TT2
sweated	SS SS WW EH EH PA3 TT2 IH PA3 DD1
sweater	SS SS WW EH EH PA3 TT2 ER1
sweaters	SS SS WW EH EH PA3 TT2 ER1 ZZ
sweating	SS SS WW EH EH PA3 TT2 IH NG
sweats	SS SS WW EH EH PA3 TT2 SS
switch	SS SS WH IH IH PA3 CH
switched	SS SS WH IH IH PA3 CH PA3 TT2
switches	SS SS WH IH IH PA3 CH IH ZZ2
switching	SS SS WH IH IH PA3 CH IH NG2
system	SS SS IH IH SS SS PA3 TT2 EH MM
systems	SS SS IH IH SS SS PA3 TT2 EH MM ZZ
talk	TT2 AO AO PA2 KK2
talked	TT2 AO AO PA3 KK2 PA3 TT2
talker	TT2 AO AO PA3 KK1 ER1
talkers	TT2 AO AO PA3 KK1 ER1 ZZ
talking	TT2 AO AO PA3 KK1 IH NG
talks	TT2 AO AO PA2 KK2 SS
thread	TH RR1 EH EH PA2 DD1
threaded	TH RR1 EH EH PA2 DD2 IH PA2 DD1
threader	TH RR1 EH EH PA2 DD2 ER1
threaders	TH RR1 EH EH PA2 DD2 ER1 ZZ
threading	TH RR1 EH EH PA2 DD2 IH NG
threads	TH RR1 EH EH PA2 DD2 ZZ
then	DH1 EH EH NN1
time	TT2 AA AY MM
times	TT2 AA AY MM ZZ
uncle	AX NG PA3 KK3 EL
whale	WW EY EL
whaler	WW EY LL ER1
whalers	WW EY LL ER1 ZZ
whales	WW EY EL ZZ
whaling	WW EY LL TH NG
year	YY2 YR
yes	YYS EH EH SS SS

TABLE 2—EXAMPLES OF SPELLING IRREGULARITIES

	Same sound represented by different letters	Different sounds represented by the same letters
Vowels	mEAt	vEIn
	fEEt	forEIgn
	pEte	dEIsm
	pEOple	dEIcer
	pennY	gEIsha
Consonants	SHip	althouGH
	tenSIon	GHastly
	preCIous	couGH
	naTIon	hiccouGH

TABLE 3—CONSONANT PHONEMES OF ENGLISH

		LABIAL	LABIO-DENTAL	INTER-DENTAL	ALVEO-LAR	PALATAL	VELAR	GLOTTAL
Stops:	Voiceless	PP			TT		KK	
	Voiced	BB			DD		GG	
Fricatives:	Voiceless	WH	FF	TH	SS	SH		HH
	Voiced		VV	DH	ZZ	ZH*		
Affricates:	Voiceless					CH		
	Voiced					JH		
Nasals	Voiced	MM			NN		NG*	
Resonants	Voiced	WW			RR,LL	YY		

These do not occur in word-initial position in English.

Labial: Upper and Lower Lips Touch or Approximate
Labio-Dental: Upper Teeth and Lower Lip Touch
Inter-Dental: Tongue Between Teeth
Alveolar: Tip of Tongue Touches or Approximates Alveolar Ridge (just behind upper teeth)
Palatal: Body of Tongue Approximates Palate (roof of mouth)
Velar: Body of Tongue Touches Velum (posterior portion of roof of mouth)
Glottal: Glottis (opening between vocal cords)

TABLE 4—VOWEL PHONEMES OF ENGLISH

	FRONT	CENTRAL	BACK
High	YR IY IH*		UW# UH*#
Mid	EY EH* XR	ER AX*	OW# OY#
Low	AE*	AW# AY AR AA*	AO*# OR#

*SHORT VOWELS
#ROUNDED VOWELS

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TABLE 5—GUIDELINES FOR USING THE ALLOPHONES

Silence

PA1	(10 ms)	—before BB, DD, GG and JH
PA2	(30 ms)	—before BB, DD, GG, and JH
PA3	(50 ms)	—before PP, TT, KK, and CH, and between words
PA4	(100 ms)	—between clauses and sentences
PA5	(200 ms)	—between clauses and sentences

Short Vowels

*/IH/	—sitting, stranded
*/EH/	—extent, gentlemen
*/AE/	—extract, acting
*/UH/	—cookie, full
*/AO/	—talking, song
*/AX/	—lapel, instruct
*/AA/	—pottery, cotton

Long Vowels

/IY/	—treat, people, penny
/EY/	—great, statment, tray
/AY/	—Kite, sky, mighty
/OY/	—noise, toy, voice
/UW1/	—after clusters with YY; computer
/UW2/	—in monosyllabic words: two, food
/OW/	—zone, close, snow
/AW/	—sound, mouse, down
/EL/	—little, angle, gentlemen

R-Colored Vowels

/ER1/	—letter, furniture, interrupt
/ER2/	—monosyllables: bird, fern, burn
/OR/	—fortune, adorn, store
/AR/	—farm, alarm, garment
/YR/	—hear, earring, irresponsible
/XR/	—hair, declare, stare

Resonants

/WW/	—we, warrant, linguist
/RR1/	—initial position: read, write, x-ray
/RR2/	—initial clusters: brown, crane, grease
/LL/	—like, hello, steel
/YY1/	—clusters: cute, beauty, yarn, yo-yo
/YY2/	—initial position: yes, yarn, yo-yo

Voiced Fricatives

/VV/	—vest, prove, even
/DH1/	—word-initial position: this, then, they
/DH2/	—word-final and between vowels: bathe, bathing
/ZZ/	—zoo, phase
/ZH/	—beige, pleasure

Voiceless Fricatives

*/FF/	—) These may be doubled for initial position and used singly in final position
*/TH/	—)
*/SS/	—)
/SH/	—shirt, leash, nation
/HH1/	—before front vowels, RY, IY, IH EY, EH, XR, AE
/HH2/	—before back vowels: UW, UH, OW, OY, AO, OR, AR
/WH/	—white, whim, twenty

Voiced Stops

/BB1/	—final position: rib; between vowels: fibber; —in clusters: bleed, brown
/BB2/	—initial position before a vowel: beast
/DD1/	—final position: played, end
/DD2/	—initial position: down; clusters: drain
/GG1/	—before high front vowels: YR, IY, IH, EY, EH, XR
/GG2/	—before high back vowels: UW, UH, OW, OY, AX; and —clusters; green, glue
/GG3/	—before low vowels: AE, AW, AY, AR, AA, AO, OR, ER; and —medial clusters: anger; and final position: peg

Voiceless Stops

/PP/	—pleasure, ample, trip
/TT1/	—final clusters before SS: tests, its
/TT2/	—all other positions: test, street
/KK1/	—before front vowels: YR, IY, IH, EY, EH, XR, AY, AE, ER, AX; —initial clusters: cute, clown, scream
/KK2/	—final position: speak; final clusters: task
/KK3/	—before back vowels: UW, UH, OW, OY, OR, AR, AQ; —initial clusters: crane, quick, clown, scream

Affricates

/CH/	—church, feature
/JH/	—judge, injure

Nasal

/MM/	—milk, alarm, ample
/NN/	—before front and central vowels: YR, IY, IH, EY, EH, XR, AE, ER, AX, AW, AY, UW; final clusters: earn
/NN2/	—before back vowels: UH, OW, OY, CR, AR, AA
/NG/	—string, anger

*These allophones can be doubled.

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TABLE 6—ALLOPHONE ADDRESS TABLE

OCTAL ADDRESS	DECIMAL ADDRESS	ALLOPHONE	SAMPLE WORD	DURATION
000	000	PA1	PAUSE	10MS
001	001	PA2	PAUSE	30MS
002	002	PA3	PAUSE	50MS
003	003	PA4	PAUSE	100MS
004	004	PA5	PAUSE	200MS
005	005	/OY/	Boy	420MS
006	006	/AY/	Sky	260MS
007	007	/EH/	End	70Ms
010	008	/KK3/	Comb	120MS
011	009	/PP/	Pow	210MS
012	010	/JH/	Dodge	140MS
013	011	/NN1/	Thin	140MS
014	012	/IH/	Sit	70MS
015	013	/TT2/	to	140MS
016	014	/RR1/	Rural	170MS
017	015	/AX/	Succeed	70MS
020	016	/MM/	Milk	180MS
021	017	/TT1/	Part	100MS
022	018	/DH1/	They	290MS
023	019	/IY/	See	250MS
024	020	/EY/	Beige	280MS
025	021	/DD1/	Could	70MS
026	022	/UW1/	To	100MS
027	023	/AO/	Aught	100MS
030	024	/AA/	Hot	100MS
031	025	/YY2/	Yes	180MS
032	026	/AE/	Hat	120MS
033	027	/HH1/	He	130MS
034	028	/BB1	Business	80MS
035	029	/TH/	Thin	180MS
036	030	/UH/	Book	100MS
037	031	/UW2/	Food	260MS
040	032	/AW/	Out	370MS
041	033	/DD2/	Do	160MS
042	034	/GG3/	Wig	140MS
043	035	/VV/	Vest	190MS
044	036	/GG1/	Got	80MS
045	037	/SH/	Ship	160MS
046	038	/ZH/	Azure	190MS
047	039	/RR2/	Brain	120MS
050	040	/FF/	Food	150MS
051	041	/KK2/	Sky	190MS
052	042	/KK1/	Can't	160MS
053	043	/ZZ/	Zoo	210MS
054	044	/NG/	Anchor	220MS
055	045	/LL/	Lake	110MS
056	046	/WW/	Wool	180MS
057	047	/XR/	Repair	360MS
060	048	/WH/	Whig	200MS
061	049	/YY1/	yes	130MS
062	050	/CH/	Church	190MS
063	051	/ER1/	Fir	160MS
064	052	/ER2/	Fir	300MS
065	053	/OW/	Beau	240MS
066	054	/DH2/	They	240MS
067	055	/SS/	Vest	90MS
070	056	/NN2/	No	190MS
071	057	/HH2/	Hoe	180MS
072	058	/OR/	Store	330MS
073	059	/AR/	Alarm	290MS
074	060	/YR/	Clear	350MS
075	061	/GG2/	Guest	40MS
076	062	/EL/	Saddle	190MS
077	063	/BB2/	Business	50MS

AY-3-8910A
276-1787

PROGRAMMABLE SOUND GENERATOR

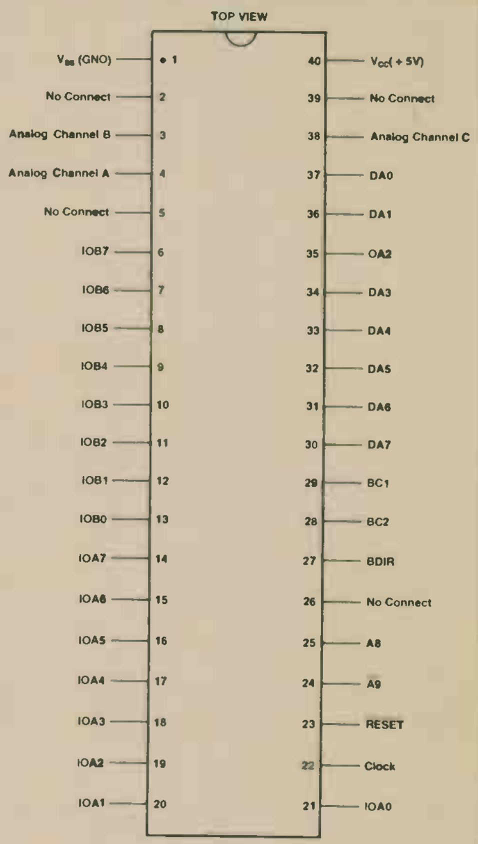
GENERAL DESCRIPTION

The AY-3-8910A Programable Sound Generator (PSG) is an LSI circuit which can produce a wide variety of complex sounds under software control. The AY-3-8910A is manufactured in the Microelectronics N-Channel Ion Implant Process. Operation requires a single +5V power supply, a TTL compatible clock, and a microprocessor controller.

The PSG is easily interfaced to any bus-oriented system. Its flexibility makes it useful in applications such as music synthesis, sound effects generation, audible alarms, tone signaling, and home computer usage. In order to generate sound effects while allowing the processor to perform other tasks, the PSG can continue to produce sound after the initial commands have been given by the control processor. The fact that realistic sound production often involves more than one component is satisfied by the three independently controllable analog sound-output channels available in the PSG. These analog sound-output channels can each provide 4 bits of logarithmic digital-to-analog conversion, greatly enhancing the dynamic range of the sounds produced.

All circuit control signals are digital in nature and may be provided directly by a miroprocessor/microcomputer. Therefore, one PSG can produce the full range of required sounds with no change in external circuitry. Since the frequency response of the PSG ranges from sub-audible at its lowest frequency to post-audible at its highest frequency, there are few sounds which are beyond reproduction.

PIN CONNECTION



FEATURES

- Full software control of sound generation
- Interfaces to most 8-bit and 16-bit microprocessors
- Three independently programmable analog outputs
- One or two 8-bit I/O ports
- Full 0° to 70°C operation

ABSOLUTE MAXIMUM RATING

V_{CC} and all other Input/Output
Voltages with Respect to V_{SS} .... −0.3V to +8.0V
Storage Temperature .... −55°C to +150°C
Operating Temperature .... 0°C to +70°C

PIN FUNCTIONS

DA7–DA0 (Input/Output/High Impedance)
Data/Address Bits 7–0: Pins 30–37

These 8 lines comprise the 8-bit bidirectional bus used by the microprocessor to send both data and addresses to the PSG, and to receive data from the PSG. In the address mode, DA3–DA0 select the internal register address ($0–17_8$) and DA7–DA4 in conjunction with address inputs $\overline{A9}$ and A8, form the chip select function. When the high order address bits are "incorrect," the bidirectional buffers are forced to a high impedance state.

Address 9, Address 8
A8 (input): Pin 25
$\overline{A9}$ (input): Pin 24

High order address bits $\overline{A9}$ and A8 are fixed to recognize a "01" code. They may be left unconnected, as each is provided with either an on-chip pull-down ($\overline{A9}$) or pull-up (A8) resistor. In noisy environments, however, it is recommended the $\overline{A9}$ and A8 be tied to external ground and +5V respectively, if they are not to be used.

$\overline{\text{RESET}}$ (Input): Pin 23

For initialization/power-on purposes, applying a low level input to the $\overline{\text{RESET}}$ pin will reset all registers to 0_8. The $\overline{\text{RESET}}$ pin is provided with an on-chip pull-up register.

CLOCK (Input): Pin 22

This TTL compatible input supplies the timing reference for the Tone, Noise, and Envelope Generators.

BDIR, BC2, BC1 (Inputs): Pins 27, 28, 29

BUS Direction, BUS Control 2, Bus Control 1

These bus control signals are generated directly by a microprocessor to control all bus operations internal and external to the PSG.

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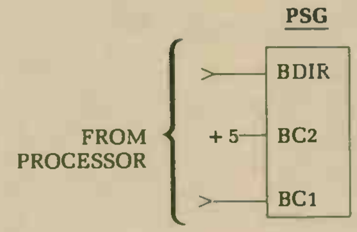
BDIR	BC2	BC1	PSG FUNCTION
0	1	0	INACTIVE.
0	1	1	READ FROM PSG.
1	1	0	WRITE TO PSG.
1	1	1	LATCH ADDRESS.



Analog Channel A, B, C (Outputs): Pins 4, 3, 38

Each of these signals is the output of its corresponding digital to analog converter, and provides 1V peak-peak (max) signal representing the complex sound waveshape generated by the PSG.

Pins 2, 5, 26, 39

These pins are for test purposes only and should be left open. Do not use as tie-points.

V_{CC}: Pin 40
Nominal +5 Volt power supply to the PSG.

V_{SS}: Pin 1
Ground reference for the PSG.

ARCHITECTURE:

The AY-3-8910A is a register oriented Programable Sound Generator (PSG). Communication between the processor and the PSG is based on the concept of memory-mapped I/O. Control commands are issued to the PSG by writing to 16 memory-mapped registers. Each of the 16 registers within the PSG is also readable so that the microprocessor can determine, if necessary, present states or stored data values. All functions of the PSG are controlled through the 16 registers which, once programmed, generate and sustain the sounds, thus freeing the system processor for other tasks.

REGISTER ARRAY:

The principal element of the PSG is the array of 16 read/write control registers. These 16 registers look to the CPU as a block of memory and, as such, occupy a 16-word block out of 1,024 possible addresses. The 10 address bits (8 bits on the common data/address bus, and 2 separate address bits) are decoded as follows:

$\overline{A9}$	A8	DA7	DA6	DA5	DA4	DA3	DA2	DA1	DA0
0	1	0	0	0	0	0	0	0	0

THROUGH

0	1	0	0	0	0	1	1	1	1

HIGH
ORDER
(Chip Select)

LOW
ORDER
(Register No.)

The four low order address bits select one of the 16 registers (R0–$R17_8$). The six high order address bits function as chip selects to control the tri-state bidirectional buffers (when the high order address bits are incorrect, the bidirectional buffers are forced to a high impedance state). High order address bits $\overline{A9}$, A8 are fixed in the PSG design to recognize a "01" code, high order address bits DA7–DA4 are programmed to recognize only a "0000" code. All addresses are latched internally. This internally latched address is updated and modified on every latch address signal presented to the PSG via the BDIR, BC2, and BC1 inputs. A latched address will remain valid until the receipt of a new address, enabling multiple reads and writes of the same register contents without the need for redundant re-addressing.

Conditioning of the Register Address Latch/Decoder and the Bidirectional Buffers to recognize the bus function required (Inactive, Latch Address, Write Data), is accomplished by the Bus Control Decode block.

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SOUND GENERATING BLOCKS:

The basic blocks in the PSG which produce the programmed sounds include:

Tone Generators	Produce the basic square wave tone frequencies for each channel (A, B, C).
Noise Generator	Produces a pulse width modulated pseudo-random square wave output.
Mixers	Combine the outputs of the Tone Generators and the Noise Generator; per channel (A, B, C).
Envelope Generator	Produces an envelope pattern which can be used to amplitude modulate the output of each Mixer.
Amplitude Control	Provides the D/A Converters with either a fixed or variable amplitude pattern. Fixed amplitude is under direct CPU control. Variable amplitude is accomplished via the output of the Envelope Generator.
D/A Converters	The three D/A Converters each produce a 16 level (max) output signal as determined by the Amplitude Control.

OPERATION

Since all PSG functions are processor controlled by writing to the internal registers, a detailed description of the PSG operation may best be accomplished by relating each PSG function to control of the corresponding register. The function of creating or programming a specific sound effect logically follows the control sequence listed:

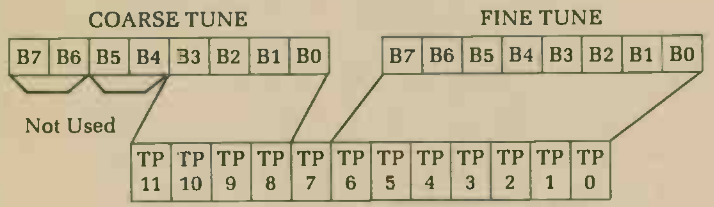
Operation	Registers	Function
Tone Generator Control	R0–R5	Program tone periods
Noise Generator Control	R6	Program noise period
Mixer Control	R7	Enable tone and/or noise on selected channels
Amplitude Control	R10–R12	Select fixed or variable (envelope) amplitudes
Envelope Generator Control	R13–R15	Program envelope period and select envelope pattern

Tone Generator Control

(Registers R0, R1, R2, R3, R4, R5)

The frequency of each square wave generated by the three Tone Generators (one each for Channels A, B, and C) is obtained by first dividing the input clock by 16 then by further dividing the result by the programmed 12-bit Tone Period value. Each 12-bit tone period value is obtained by combining the contents of the respective Coarse and Fine Tune registers, as illustrated:

Coarse Tune Register	Channel	Fine Tune Register
R1	A	R0
R3	B	R2
R5	C	R4



12-bit Tone Period (TP) to Tone Generator

The period of the output of the tone generator is therefore determined by:

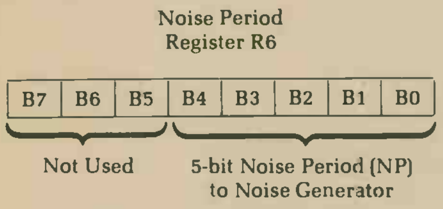
16 × TP × P where P = the period of the input clock.

NOTE: If the Coarse and Fine Tune registers are both set to 000_8, the resulting period will be minimum, i.e., the generated tone period will be as if the Coarse Tune register was set to 000_8 and the Fine Tune register set to 001_8.

Noise Generator Control

(Register R6)

The frequency of the noise source is obtained by dividing the input clock by 16, then by further dividing the result by the programmed 5-bit Noise Period value. This 5-bit value consists of the lower 5 bits (B4–B0) of register R6, as illustrated:



Mixer Control—I/O Enable

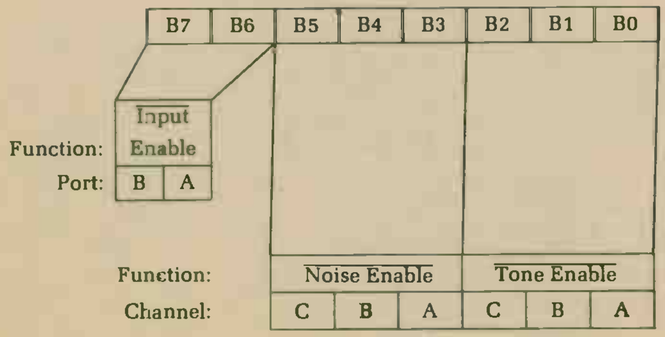
(Register R7)

Register R7 is a multi-function $\overline{\text{ENABLE}}$ register which controls the three Noise/Tone Mixers.

The Mixers, previously described, combine the noise and tone frequencies for each of the three channels. The determination of combining neither/either/both noise and tone frequencies on each channel is made by the state of bits B5–B0 of register R7, as illustrated.

The direction (input or output) of the general purpose I/O ports (I/OA and I/OB) is determined by the state of bits B7 and B6 of R7, as illustrated.

MIXER CONTROL REGISTER—R7



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NOISE ENABLE TRUTH TABLE

R7 Bits			Noise Enabled on Channel		
B5	B4	B2			
0	0	0	C	B	A
0	0	1	C	B	—
0	1	0	C	—	A
0	1	1	C	—	—
1	0	0	—	B	A
1	0	1	—	B	—
1	1	0	—	—	A
1	1	1	—	—	—

TONE ENABLE TRUTH TABLE

R7 Bits			Tone Enabled on Channel		
B2	B1	B0			
0	0	0	C	B	A
0	0	1	C	B	—
0	1	0	C	—	A
0	1	1	C	—	—
1	0	0	—	B	A
1	0	1	—	B	—
1	1	0	—	—	A
1	1	1	—	—	—

I/O PORT TRUTH TABLE

R7 Bits		I/O Port Status	
B7	B6	I/OB	I/OA
0	0	Input	Input
0	1	Input	Output
1	0	Output	Input
1	1	Output	Output

NOTE: Disabling noise and tone does not turn off a channel. Turning a channel off can only be accomplished by writing all zeros into the corresponding Amplitude Control Register.

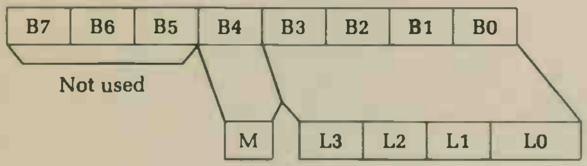
Amplitude Control

(Registers R10, R11, R12)

The amplitude of the signals generated by each of the three D/A Converters (one each for Channels A, B, and C) is determined by the content of the lower bits (B4–B0) of registers R10, R11, and R12 as illustrated.

These five bits consists of a 1-bit mode select ("M" bit) and a 4-bit "fixed" amplitude level (L3–L0). When the M bit is low, the output level of the analog channel is defined by the 4-bit "fixed" amplitude level of the Amplitude Control Register. This amplitude level is fixed in the sense that the amplitude level is under direct control of the system processor. When the M bit is high, the output level of the analog channel is defined by the 4-bits of the Envelope Generator (bits E3–E0). The amplitude mode bit can also be thought of as an "envelope enable" bit.

Amplitude Control Register	Channel
R10	A
R11	B
R12	C



Amplitude Mode	4 bit fixed Amplitude Level				
0	0	0	0	0	Amplitude Defined By L0–L3
'	'			'	
'	'			'	
'	'			'	
0	1	1	1	1	
1	X	X	X	X	Amplitude Defined By E0–E3

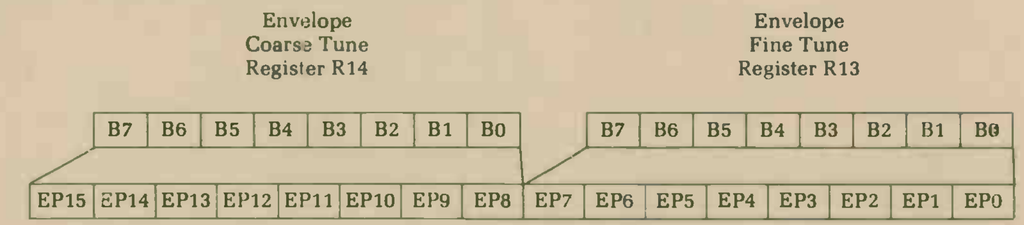
Envelope Generator Control

To accomplish the generation of complex envelope patterns, two independent methods of control are provided: first, it is possible to vary the frequency of the envelope using registers R13 and R14; second, the relative shape and cycle pattern of the envelope can be varied using register R15. The following paragraphs explain the details of the envelope control functions, describing first the envelope period control and then the envelope shape/cycle control. (See Figures 1 and 2).

Envelope Period Control

(Registers R13, R14)

The frequency of the envelope is obtained by first dividing the input clock by 256, then by further dividing the result by the programmed 16-bit Envelope Period value. This 16-bit value is obtained by combining the contents of the Envelope Coarse and Fine Tune registers, as illustrated:



16-bit Envelope Period (EP) to Envelope Generator
Thus the envelope period is given by:
256 x EP x P Where P = period of input clock

NOTE: If the Coarse and Fine Tune registers are both set to 000$_8$ the resulting period will be minimum, i.e., the generated tone period will be as if the Coarse Tune register was set to 000$_8$ and the Fine Tune register set to 001$_8$.

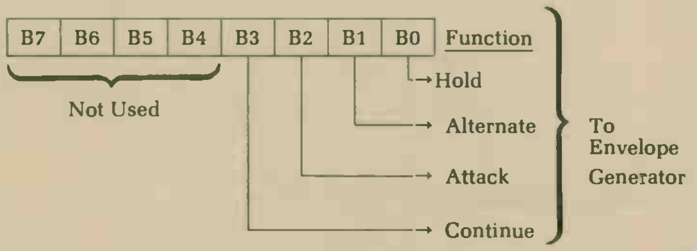
Envelope Shape/Cycle Control

(Register R15)

The Envelope Generator further divides the envelope period by 16, producing a 16-state per cycle envelope pattern as defined by the 4-bit counter output, E3, E2, E1 and E0. The particular shape and cycle pattern of any desired envelope is accomplished by controlling the count pattern of the 4-bit counter. (See Figures 4 and 5).

This envelope shape/cycle control is contained in the lower 4 bits (B3–B0) of register R15. Each of these 4 bits controls a function in the envelope generator, as illustrated:

Envelope Shape/Cycle
Control Register (R15)



Bit 0: HOLD	When this is set high (logic 1) the envelope is limited to one cycle, the value of the envelope at the end of the cycle being held.
Bit 1: ALTERNATE	When set high (logic 1) the envelope counter reverses direction at end of each cycle (i.e. performs as an up/down counter).
Bit 2: ATTACK	When set high (logic 1) the envelope counter will count up (attack). When set low (logic 0) the counter will count down (decay).
Bit 3: CONTINUE	When set high (logic 1) the cycle pattern will be defined by the HOLD bit. When set low (logic 0) the envelope counter will reset to 0000 after one cycle, and hold that value.

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D/A CONVERTER OPERATION

Since the primary use of the PSG is to produce sound for the non-linear amplitude detection mechanism of the human ear, the D/A conversion is performed in logarithmic steps with a normalized voltage range from 0 to 1 volt. The specific amplitude control of each of the three D/A Converters is accomplished by the three sets of 4 bit outputs of the Amplitude Control block, while the Mixer outputs provide the base signal frequency (Noise and/or Tone). (See Fig. 3).

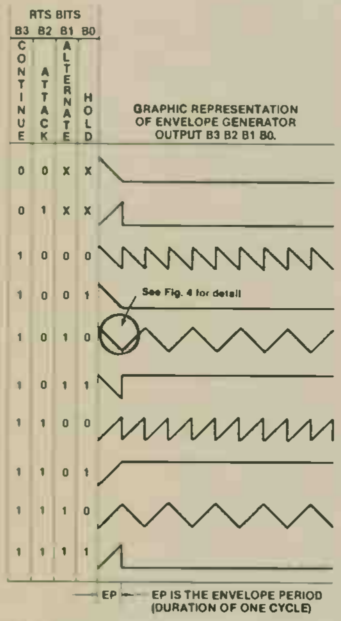


Fig. 1 Envelope Shape/Cycle Operation

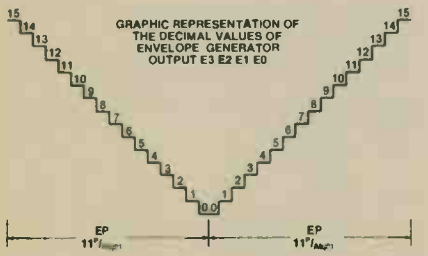

15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0 0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
GRAPHIC REPRESENTATION OF THE DECIMAL VALUES OF ENVELOPE GENERATOR OUTPUT E3 E2 E1 E0
EP
EP

Fig. 2 Detail of Two Cycles of Fig. 1
(Ref. Waveform "1010" in Fig. 1)

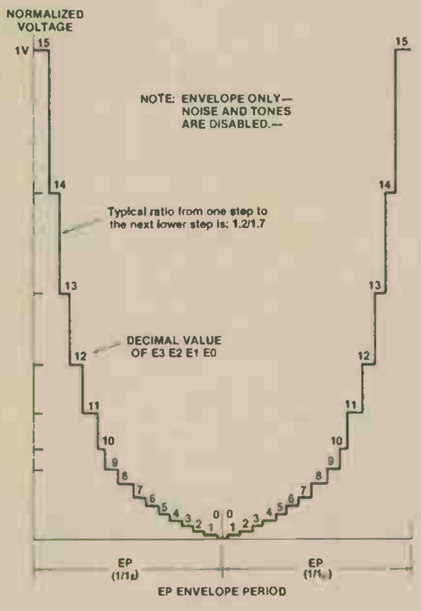


Fig. 3 D/A Converter Output

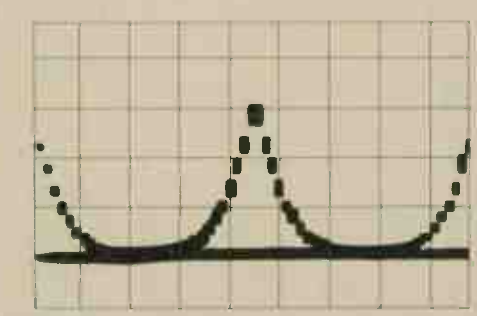


Fig. 4 Singletone With Envelope Shape/Cycle Pattern 1010

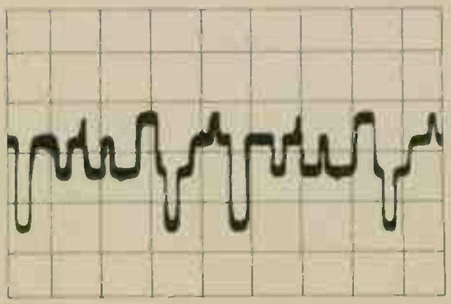
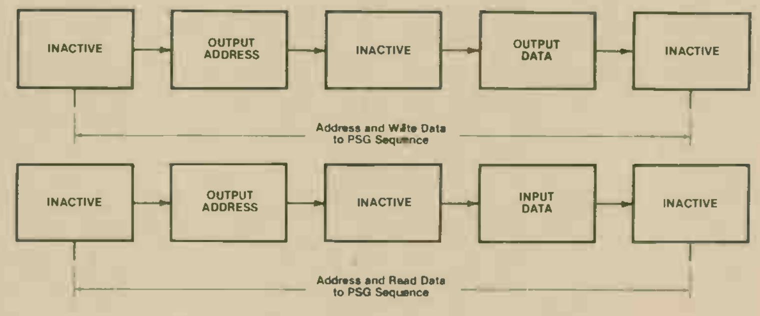


Fig. 5 Mixture of Three Tones With Fixed Amplitudes

STATE TIMING

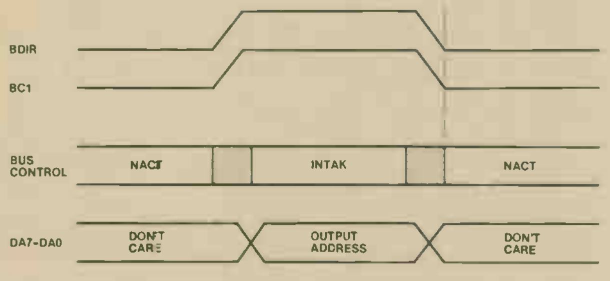
While the state flow for many microprocessors can be somewhat involved for certain operations, the sequence of events necessary to control the PSG is simple and straightforward. Each of the three major state sequences (Latch Address, Write to PSG, and Read from PSG) consists of several operations (indicated below by rectangular blocks), defined by the pattern of bus control signals (BDIR, BC1).

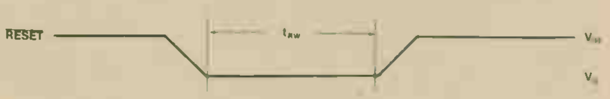


The functional operation and relative timing of the PSG control sequences are described in the following paragraphs.

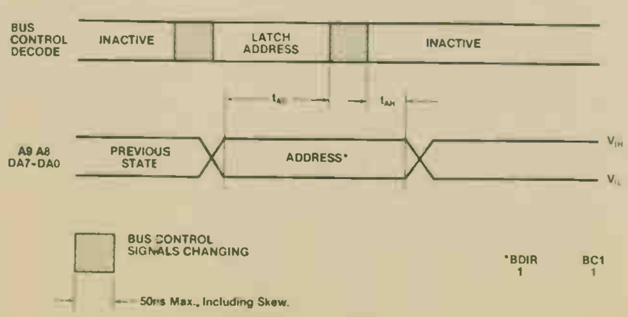
ADDRESS PSG REGISTER SEQUENCE

The Latch Address sequence is normally an integral part of the write or read sequences, but for simplicity is illustrated here as in individual sequence. Depending upon the processor used, the program sequence will normally require four principal microstates: (1) send NACT (inactive); (2) send INTAK (latch address); (3) put address on bus; (4) send NACT (inactive).

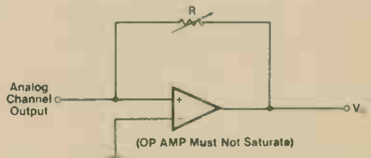




Reset Timing



Latch Address Timing



Analog Channel Output Test Circuit

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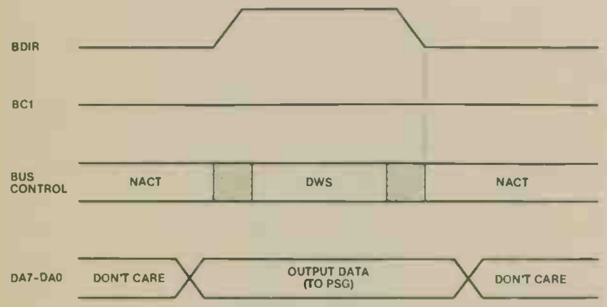
WRITE DATA TO PSG SEQUENCE #1

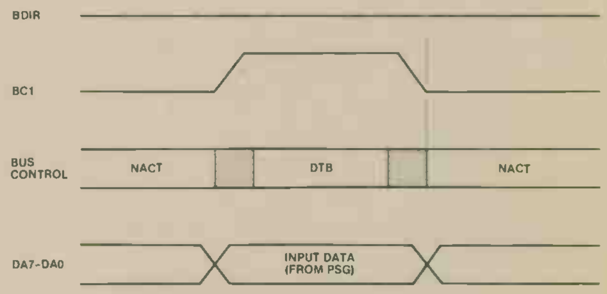
The Write to PSG sequence, which would normally follow immediately after an address sequence, requires four principal microstates: (1) send NACT inactive); (2) put data on bus; (3) send DWS (write to PSG); (4) send NACT (inactive).

READ DATA FROM PSG SEQUENCE #2

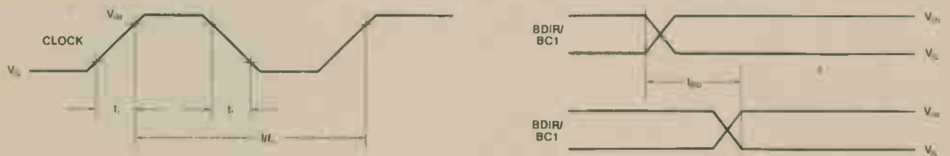
As with the Write to PSG sequence, the Read from PSG sequence would also normally follow immediately after an address sequence. The four principal microstates of the read sequence are: (1) send NACT (inactive); (2) send DTB (read from PSG); (3) read data on bus; (4) send NACT (inactive).



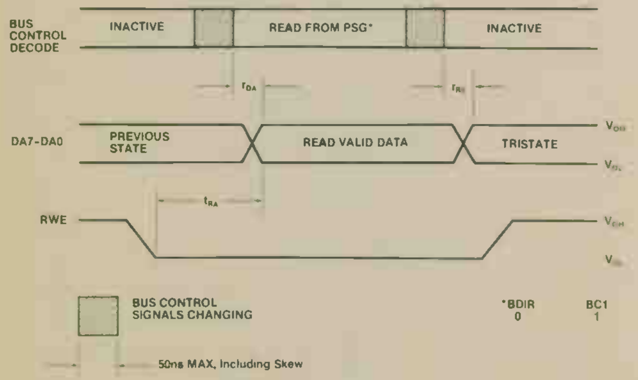
PSG Sequence #1



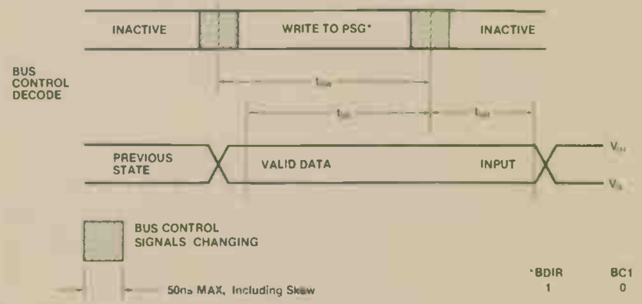
PSG Sequence #2



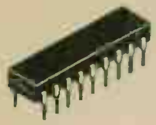
Clock and Bus Signal Timing



Read Data Timing



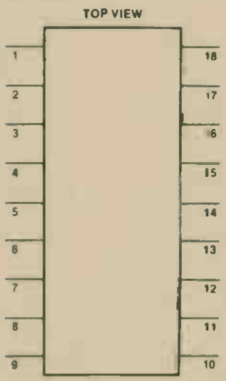
Write Data Timing



FM RECEIVER

TDA7000
276-1304

PIN CONNECTION



PIN	FUNCTION
1	Muting Capacitor
2	Audio frequency output
3	Noise source
4	Loop filter capacitor
5	Supply voltage
6	VCO
7	1st integrator capacitor*
8	2nd integrator capacitor
9	1st integrator capacitor*
10	IF filter capacitor (to pin 11)
11	IF filter capacitor
12	IF limiter capacitor
13	RF input
14	Mixer
15	Current source capacitor
16	Ground
17	Demodulator capacitor
18	Correlator capacitor

*Connects between Pins 7 and 9.

GENERAL DESCRIPTION

The TDA7000 is a monolithic integrated circuit for mono FM portable radios, where a minimum on peripheral components is important (small dimensions and low costs).

The IC has an FLL (Frequency-Locked-Loop) system with an intermediate frequency of 70 kHz. The i.f. selectivity is obtained by active RC filters. The only function which needs alignment is the resonant circuit for the oscillator, thus selecting the reception frequency. Spurious reception is avoided by means of a mute circuit, which also eliminates too noisy input signals. Special precautions are taken to meet the radiation requirements.

The TDA7000 includes the R.F. input stage, mixer, local oscillator, I.F. amplifier/limiter, phase demodulator, mute detector and mute switch.

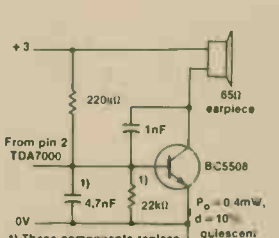
ABSOLUTE MAXIMUM RATINGS

Supply voltage range (pin 5) (Vp)	12 V
Supply current at $V_p = 4{,}5$ V (IP)	8 mA
Power	(See power derating curve)
R.F. input frequency range (f_{rf})	1.5 to 110 MHz
Sensitivity for − 3 dB limiting (e.m.f. voltage) (source impedance: 75 Ω; mute disabled)	1.5 μV
Signal handling (e.m.f. voltage) (source impedance: 75 Ω)	200 mV
A.F. output voltage at $R_L = 22k\Omega$	75 mV

TYPICAL APPLICATIONS

AUDIO AMPLIFIER AND DETUNING INDICATOR CIRCUITS

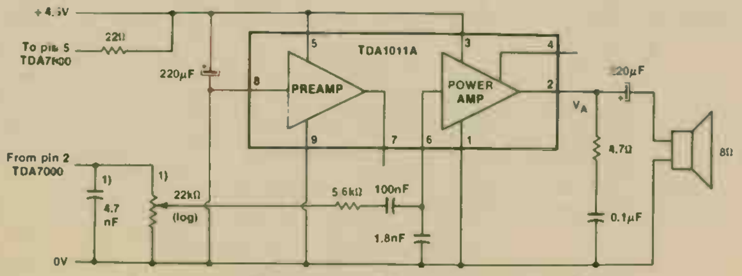
Audio output stages suitable for use with the TDA7000 are shown in Fig. E and F. Figure G shows how the muting signal can be used to operate a LED to give an indication of detuning.



1) These components replace R2 and C2 in Fig. A

$P_o = 0.4$mW, d = 10% quiescent current = 4mA

Fig E A 0.4mW transistor audio output stage without volume control for driving an earpiece.



1) These components replace C2 and R2 in Fig. A

P_O 250mW, d = 10% quiescent current = 8mA

Fig. F An integrated 250mW audio output stage.

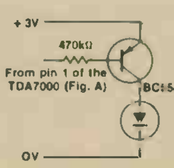


Fig. G A detuning indicator driven by the mute signal from the TDA7000.

TDA7000 276-1304

TYPICAL APPLICATION

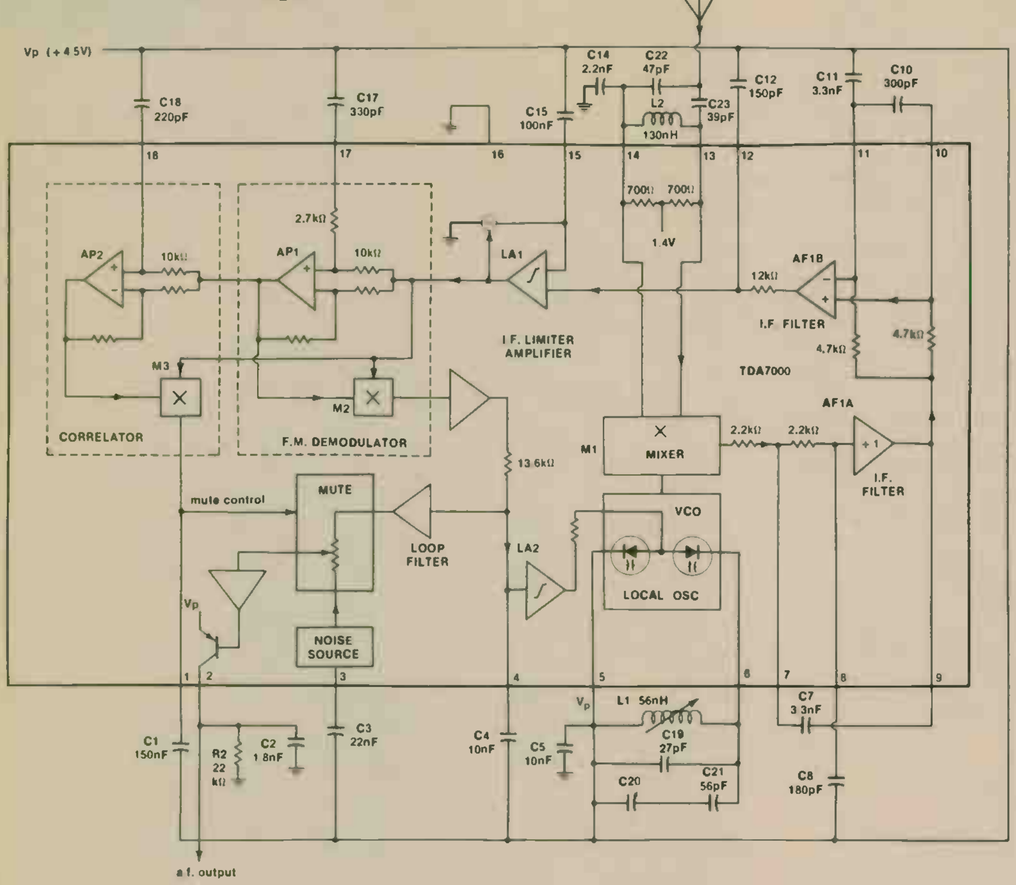


Fig. A The TDA7000 as a variable capacitor tuned f.m. broadcast monitor.

C_7 to C_{12}, C_{17} and C_{18}:
Filter and demodulator capacitors. The values shown are for an i.f. of 70 kHz. For other intermediate frequencies, the values of these capacitors must be changed in inverse proportion to the i.f. change.

C_{14}:
Decouples the reverse r.f. input. It must be connected to the common return via a good quality short connection to ensure a low-impedance path. Inductive or capacitive coupling between C_{14} and the local-oscillator circuit or i.f. output components must be avoided.

C_{15}:
Decouples the d.c. feedback for i.f. limiter/amplifier LA1.

C_{19} and C_{21}:
Local-oscillator tuning capacitors. Their values depend on the required tuning range and on the value of tuning capacitor C_{20}.

C_{22}, C_{23}, L_1, L_2:
The values given are for an r.f. bandpass filter with Q = 4 for the European and U.S.A. domestic f.m. broadcast band (87.5 MHz to 108 MHz). For reception of the Japanese f.m. broadcast band (76 MHz to 91 MHz), L_1 must be increased to 78 nH and L_2 must be increased to 150 nH. If stopband attenuation for high level a.m. or tv signals is not required, L_2 and C_{22} can be omitted and C_{23} changed to 220 pF.

R_2:
The load for the audio output current source. It determines the audio output level, but its value must not exceed 22 kΩ for $V_p = 4.5$ V, or 47 kΩ for $V_p = 9$ V.

TYPICAL APPLICATIONS

Circuit with variable-capacitance diode tuning

Since it is only necessary to tune the local-oscillator coil, it is very simple to modify the circuit of Fig. A for variable-capacitance diode tuning. The modifications are shown in Fig. B.

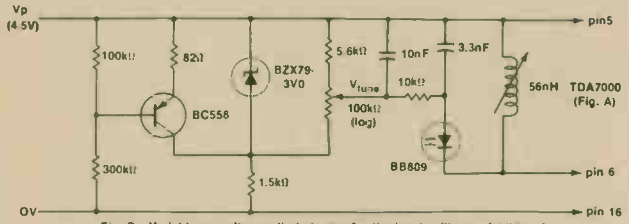


Fig. B Variable-capacitance diode tuning for the local-oscillator. Additional measures must be taken to ensure temperature stability.

Narrow-band f.m. receiver

The TDA7000 can also be used for reception of narrow-band f.m. signals. In this case, the local-oscillator is crystal-controlled as shown in Fig. C and there is therefore hardly any compression of the i.f. swing by the FLL. The deviation of the transmitted carrier frequency due to modulation must therefore be limited to prevent severe distortion of the demodulated audio signal.

The component values in Fig. C result in an i.f. of 4.5 kHz and an i.f. bandwidth of 5 kHz (Fig. D). If the i.f. is multiplied by N, the values of capacitors C_{17} and C_{18} in the all-pass filters and the values of filter capacitors C_7, C_8, C_{10}, C_{10}, C_{11}, and C_{12} must be multiplied by 1/N. For improved i.f. selectivity to achieve greater adjacent channel attenuation, second-order networks can be used in place of C_{10} and C_{11}.

In this circuit the detuning noise generator is not used. Since the circuit is mainly for reception of audio signals, the audio output must be passed through a low-pass Chebyshev filter to suppress i.f. harmonics.

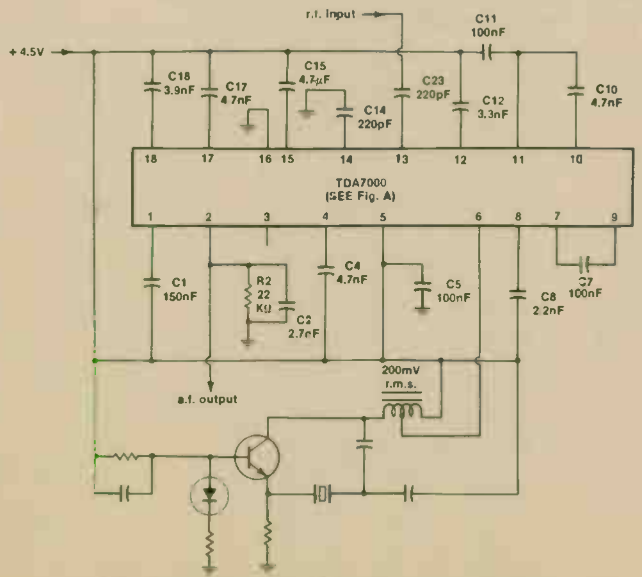
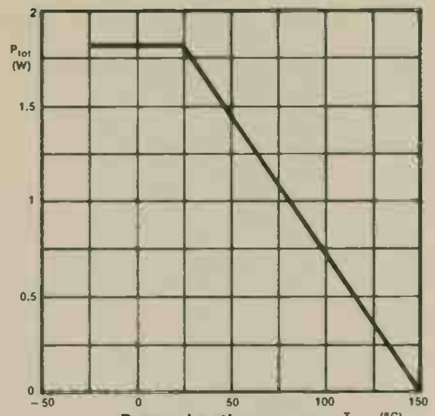


Fig. C A narrow-band f.m. receiver with a crystal-controlled local-oscillator.

TDA7000 276-1304

TYPICAL CHARACTERISTICS



Power derating curve.

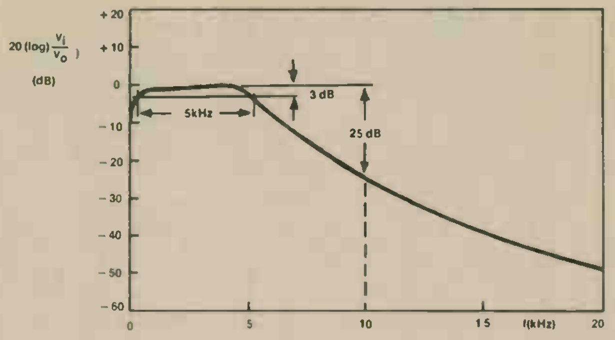


Fig. D I.F. selectivity for the narrow-band f.m. receiver.

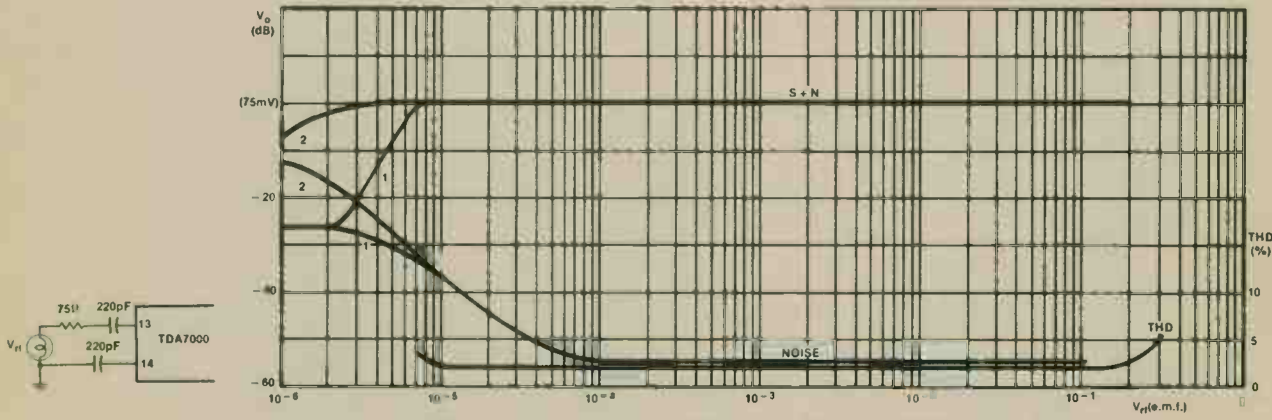
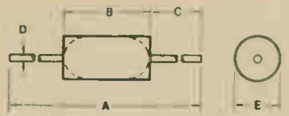


Fig. H Audio output as a function of input e.m.f. The curves numbered 1 were measured with the muting system active. The curves numbered 2 were measured with the muting system disabled by injecting about 20 μA into pin 1 of the TDA7000. The input frequency was 96 MHz modulated with 1 kHz with a deviation of ± 22.5 kHz for the output level curves, and ± 75 kHz for the distortion curve.

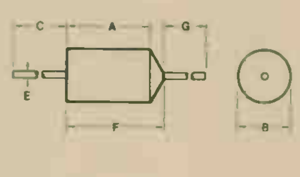
QUICK CASE REFERENCE

A1

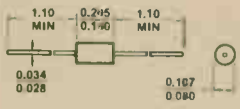


May show color bands to denote polarity.

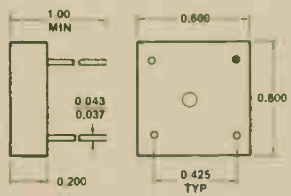
A3



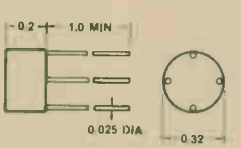
DO41



M532A

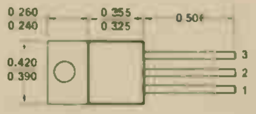


M548



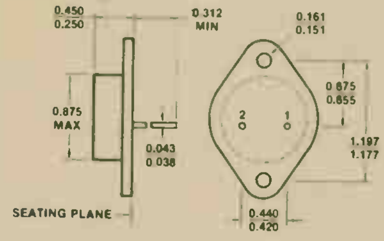
Positive: Red or Square Lead

MU27



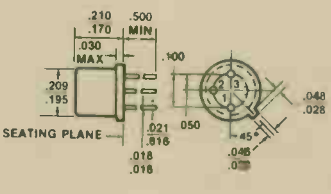
SCR	TRIAC
1 CATHODE 2 ANODE 3 GATE	1 ANODE 1 2 ANODE 2 3 GATE

TO3

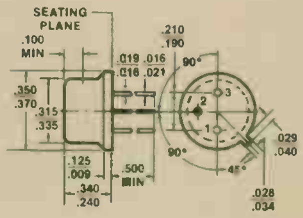


1-BASE
2-EMITTER
CASE-COLLECTOR

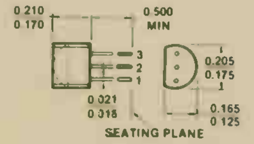
TO18



TO39

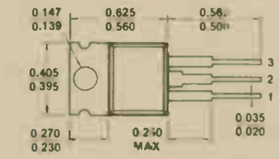


TO92



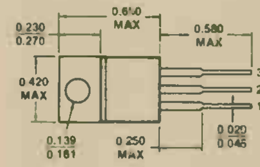
N-CHANNEL FET	UNIJUNCTION	BIPOLAR
1-SOURCE 2-GATE 3-DRAIN	1 BASE 1 2 EMITTER 3 BASE 2	1-EMITTER 2-BASE 3-COLLECTOR

TO220



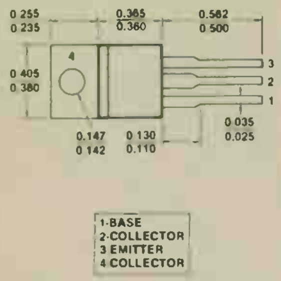
BIPOLAR	TRIAC
1 BASE 2-COLLECTOR 3 EMITTER	1-ANODE 1 2 ANODE 2 3-GATE

TO220AB

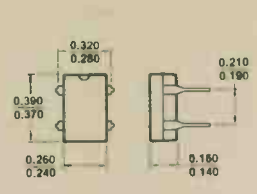


1-GATE
2-DRAIN
3-SOURCE

TO220AB-2



Y1



SEMICONDUCTOR CROSS REFERENCE NOTES

N1 Two required, connect in series—anode to anode.
N2 Two required, connect in series—cathode to cathode.
N3 Two required, connect in series—anode to cathode.
N5 Four required, connect as in original circuit.
N6 Five required, connect as in original circuit.
N7 Six required, connect as in original circuit.
N8 Seven required, connect as in original circuit.
N9 Eight required, connect as in original circuit.

QUICK INDEX

MASTER INDEX BY CATALOG NUMBER

IMPORTANT SUGGESTIONS ON THE USE AND REPLACEMENT OF TRANSISTORS

You can use various styles and sizes of transistors in any given circuit application, as long as the electrical characteristics of the device are within the required range of operation. Thus, a tab-type device can be used to replace a TO-3 or TO-66 case device; or a small epoxy-type device can be used in place of TO-5 or other size transistor.

Generally speaking, you must observe the following maximum characteristics of a transistor when contemplating substitution or selection:

Power dissipation
Maximum collector current
Maximum collector-to-emitter voltage
Maximum collector-to-base voltage
Maximum emitter-to-base voltage

Also, it is useful to consider the following characteristics for actual circuit operation:

Gain
Frequency limitations

Caution: It may be necessary in some cases to adjust bias values to achieve required operation. With tuned circuits, it is a good practice to check alignment after replacing any transistor.

When replacing power transistors, always check driver devices to be sure they are OK. Also, check other circuit components to be sure they were not shorted (or otherwise defective) when the original device failed. If you fail to correct such problems before applying power to the circuit once again, the replacement transistor could easily be permanently damaged. Be sure to use proper heat-sink precautions and use silicon grease to reduce the thermal resistance between the case of the transistor and the heat-sink.

Always observe temperature limitations as specified with transistor ratings.

It almost goes without saying, but let us remind you anyway—

Always observe voltage polarity with all semiconductor devices.

CROSS-REFERENCE/SUBSTITUTION LISTING

Most users of semiconductors realize that it is almost impossible to guarantee absolute equivalents (as in the case of tubes). Thus, the only way to create replacement or cross-reference listings is by carefully evaluating each characteristic of both devices (original transistor and the possible alternate). This is how the Technical Staff of Radio Shack went about preparing the following cross-reference/replacement lists.

IMPORTANT NOTE

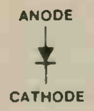
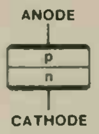
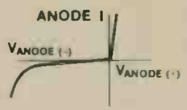
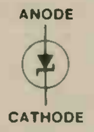
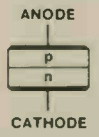
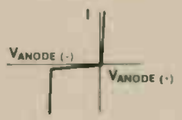
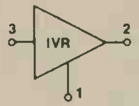
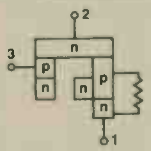
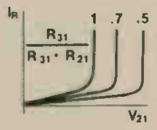
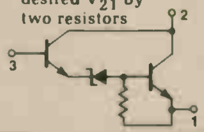
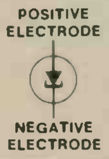
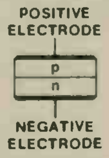
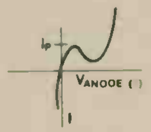
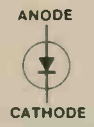
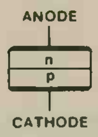
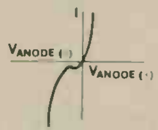
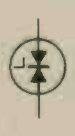
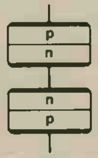
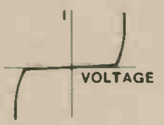
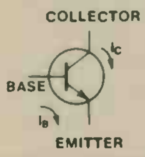
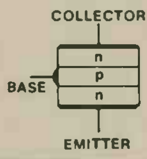
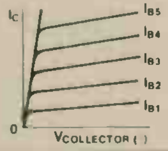
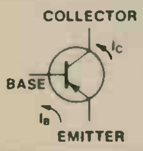
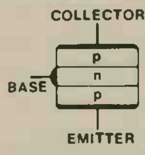
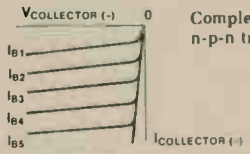
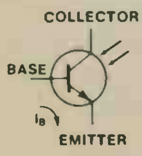
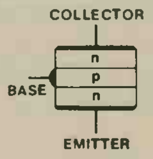
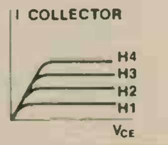
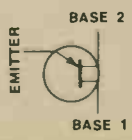
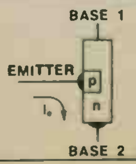
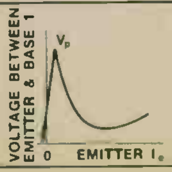
We caution you that in many cases the listed cross reference ARCHER device may be different in appearance, size or mounting style. Thus, before beginning replacement or installation procedures, check to be sure you have enough room for proper mounting.

Also, when making substitutions or replacements in radio or high frequency circuitry, it may be necessary to realign tunable circuit elements. This is true even when making exact replacements (junction capacitances normally vary between devices even from the same production run).

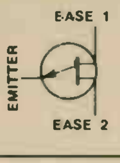
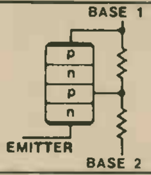
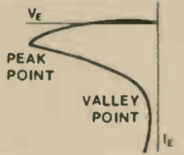
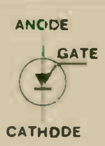
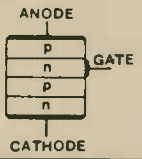
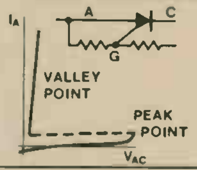
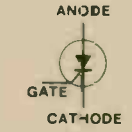
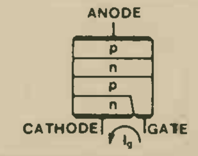
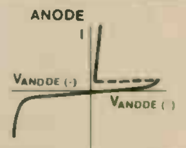
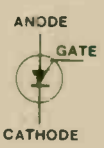
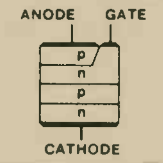
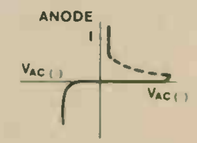
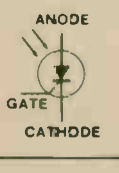
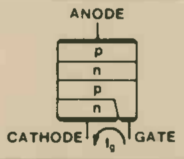
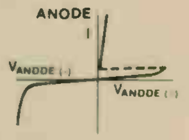
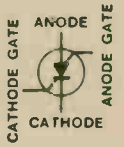
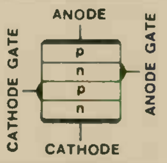
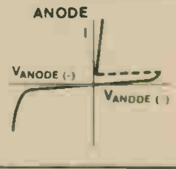
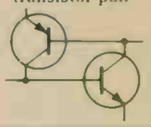
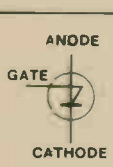
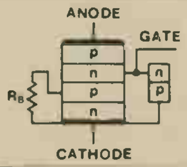
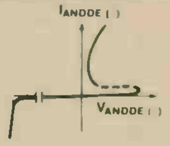
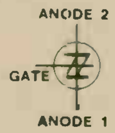
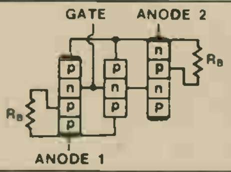
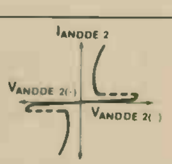
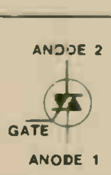
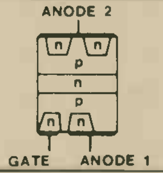
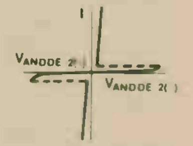
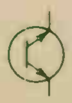
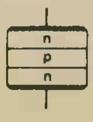
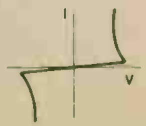
Information contained in this guide is based on the latest available data and is believed to be accurate. Every care has been taken to assure technical accuracy. However, Radio Shack does not assume responsibility for any contingencies of the use of this information. Nor does Radio Shack assume any responsibility for any infringements of patents or other rights of third parties which may result from its use.

When you are looking for a specific number and it does not show up in the following listing—refer to the technical data provided for our line of ARCHER devices. With this information you probably will be able to make a suitable substitution.

MAJOR SEMICONDUCTOR COMPONENTS

NAME OF DEVICE	CIRCUIT SYMBOL	COMMONLY USED JUNCTION SCHEMATIC	ELECTRICAL CHARACTERISTICS	MAX RATINGS AVAILABLE	MAJOR APPLICATIONS	ROUGHLY ANALOGOUS TO:
Diode or Rectifier			 Conducts easily in one direction, blocks in the other	1500 Amps 3000 Volts	Rectification Blocking Detecting Steering	Check valve Diode tube Gas diode
Avalanche (Zener) Diode			 Constant voltage characteristic in negative quadrant	22 Volts 1 Watt	Regulation Reference Clipping	V-R tube
Integrated Voltage Regulator (IVR)			 Programmed to desired V_{21} by two resistors 	40 Volts 100 mA 0.4 Watts	Shunt voltage regulator Reference element Error modifier Level sensing Level shifting	Avalanche Diode
Tunnel Diode			 Displays negative resistance when current exceeds peak point current I_p	Peak point current = 100 mA Resistive cutoff freq. = 40 Gc	UHF converter Logic circuits Microwave circuits Level sensing	None
Back Diode			 Similar characteristics to conventional diode except very low forward voltage drop	5 mA 400 mV	Microwave mixers and low power oscillators	None
Thyrector			 Rapidly increasing current above rated voltage in either direction	70 A peak pulse (2" Sq. cell)	Transient voltage suppression and arc suppression	Thyrite Two avalanche diodes in inverse-series connection
n-p-n Transistor			 Constant collector current for given base drive	300 Volts 25 Watts	Amplification Switching Oscillation	Pentode Tube
p-n-p Transistor			 Complement to n-p-n transistor	75 Volts 25 Watts	Amplification Switching Oscillation	None
Photo Transistor			 Incident light acts as base current of the photo transistor	45 Volts 0.25 Amps 0.6 Watts	Tape readers Card readers Position sensor Tachometers	None
Unijunction Transistor (UJT)			 Unijunction emitter blocks until its voltage reaches V_p; then conducts	35 Volts 0.450 Watts	Interval timing Oscillation Level Detector SCR Trigger	None

MAJOR SEMICONDUCTOR COMPONENTS

NAME OF DEVICE	CIRCUIT SYMBOL	COMMONLY USED JUNCTION SCHEMATIC	ELECTRICAL CHARACTERISTICS	MAX RATINGS AVAILABLE	MAJOR APPLICATIONS	ROUGHLY ANALOGOUS TO:
Complementary Unijunction Transistor (CUJT)			 Functional complement to UJT	30 Volts 0.30 Watts 0.15 Amps	High stability timers Oscillators and level detectors	None
Programmable Unijunction Transistor (PUT)			 Programmed by two resistors for V_p, I_p, I_v. Function equivalent to normal UJT.	40 Volts 0.30 Watts 0.15 Amps	Low cost timers and oscillators Long period timers SCR trigger Level detector	UJT
Silicon Controlled Rectifier (SCR)			 With anode voltage (+), SCR can be triggered by I_g, remaining in conduction until anode I is reduced to zero	1000 Amps 1800 Volts	Power switching Phase control Inverters Choppers	Gas thyratron or ignitron
Complementary Silicon Controlled Rectifier (CSCR)			 Polarity complement to SCR	50 Volts 0.25 Amps 0.45 Watts	Ring counters Low speed logic Lamp driver	None
Light Activated SCR* (LASCR)			 Operates similar to SCR, except can also be triggered into conduction by light falling on junctions	1.6 Amps 200 Volts	Relay Replacement Position controls Photoelectric applications Slave flashes	None
Silicon Controlled Switch* (SCS)		 ANODE CATHODE GATE p n p n ANODE GATE CATHODE	 Operates similar to SCR except can also be triggered on by a negative signal on anode-gate. Also several other specialized modes of operation	100 Volts 200 mA	Logic applications Counters Nixie drivers Lamp drivers	Complementary transistor pair 
Silicon Unilateral Switch (SUS)		 ANODE GATE p n p n n p R_B CATHODE	 Similar to SCS but zener added to anode gate to trigger device into conduction at ∼ 8 volts. Can also be triggered by negative pulse at gate lead.	0.350 Watts 0.200 Amps 10 Volts	Switching Circuits Counters SCR Trigger Oscillator	Shockley or 4-layer diode
Silicon Bilateral Switch (SBS)		 GATE ANODE 2 R_B p n p n R_B ANODE 1	 Symmetrical bilateral version of the SUS. Breaks down in both directions as SUS does in forward.	0.350 Watts 0.200 Amps 10 Volts	Switching Circuits Counters TRIAC Phase Control	Two inverse Schockley diodes
Triac		 ANODE 2 n n p n p n n GATE ANODE 1	 Operates similar to SCR except can be triggered into conduction in either direction by (+) or (-) gate signal	25 Amps 500 Volts	AC switching Phase control Relay replacement	Two SCR's in inverse parallel
Diac Trigger			 When voltage reaches trigger level (about 35 volts), abruptly switches down about 10 volts.	40 Volts 2 Amps peak	Triac and SCR trigger Oscillator	Neon lamp

*Light Activated SCS also available.

GLOSSARY OF WORDS, SYMBOLS AND ABBREVIATIONS

The following letter symbols and abbreviations are recommended by the Joint Electron Device Engineering Council (JEDEC) of the Electronic Industries Association (EIA) and the National Electrical Manufacturers Association (NEMA) for use in semiconductor device data sheets and specifications.

A, a —Anode
B, b —Base
b_{fs} —Common-source small-signal forward transfer susceptance
b_{is} —Common-source small-signal input susceptance
b_{os} —Common-source small-signal output susceptance
b_{rs} —Common-source small-signal reverse transfer susceptance
C, c —Collector
C_{cb} —Collector-base interterminal capacitance
C_{ce} —Collector-emitter interterminal capacitance
C_{ds} —Drain-source capacitance
C_{du} —Drain-substrate capacitance
C_{eb} —Emitter-base interterminal capacitance
C_{ibo} —Common-base open-circuit input capacitance
C_{ibs} —Common-base short-circuit input capacitance
C_{ieo} —Common-emitter open-circuit input capacitance
C_{ies} —Common-emitter short-circuit input capacitance
C_{iss} —Common-source short-circuit input capacitance
C_{obo} —Common-base open-circuit output capacitance
C_{obs} —Common-base short-circuit output capacitance
C_{oeo} —Common-emitter open-circuit output capacitance
C_{oes} —Common-emitter short-circuit output capacitance
C_{oss} —Common-source short-circuit output capacitance
C_{rbs} —Common-base short-circuit reverse transfer capacitance
C_{rcs} —Common-collector short-circuit reverse transfer capacitance
C_{res} —Common-emitter short-circuit reverse transfer capacitance
C_{rss} —Common-source short-circuit reverse transfer capacitance
C_{Tc} —Collector depletion-layer capacitance
C_{Te} —Emitter depletion-layer capacitance
D, d —Drain
E, e —Emitter
η —Intrinsic standoff ratio
f_{hfb} —Common-base small-signal short-circuit forward current transfer ratio cutoff frequency
f_{hfc} —Common-collector small-signal short-circuit forward current transfer ratio cutoff frequency
f_{hfe} —Common-emitter small-signal short-circuit forward current transfer ratio cutoff frequency
f_{max} —Maximum frequency of oscillation
F_T —Transition frequency (frequency at which common-emitter small-signal forward current transfer ratio extrapolates to unity)
G, g —Gate
g_{fs} —Common-source small-signal forward transfer conductance
g_{is} —Common-source small-signal input conductance
g_{MB} —Common-base static transconductance
g_{MC} —Common-collector static transconductance
g_{ME} —Common-emitter static transconductance
g_{os} —Common-source small-signal output conductance
G_{PB} —Common-base large-signal insertion power gain
G_{pb} —Common-base small-signal insertion power gain
G_{PC} —Common-collector large-signal insertion power gain
G_{pc} —Common-collector small-signal insertion power gain
G_{PE} —Common-emitter large-signal insertion power gain
G_{pe} —Common-emitter small-signal insertion power gain
G_{pg} —Common-gate small-signal insertion power gain
G_{ps} —Common-source small-signal insertion power gain
g_{rs} —Common-source small-signal reverse transfer conductance
G_{TB} —Common-base large-signal transducer power gain
G_{tb} —Common-base small-signal transducer power gain
G_{TC} —Common-collector large-signal transducer power gain
G_{tc} —Common-collector small-signal transducer power gain
G_{TE} —Common-emitter large-signal transducer power gain
G_{te} —Common-emitter small-signal transducer power gain
G_{tg} —Common-gate small-signal transducer power gain
G_{ts} —Common-source small-signal transducer power gain
h_{FB} —Common-base static forward current transfer ratio
h_{fb} —Common-base small-signal short-circuit forward current transfer ratio
h_{FC} —Common-collector static forward current transfer ratio
h_{fc} —Common-collector small-signal short-circuit forward current transfer ratio
h_{FE} —Common-emitter static forward current transfer ratio
h_{fe} —Common-emitter small-signal short-circuit forward current transfer ratio
h_{FEL} —Inherent large-signal forward current transfer ratio
h_{IB} —Common-base static input resistance
h_{ib} —Common-base small-signal short-circuit input impedance
h_{IC} —Common-collector static input resistance
h_{ic} —Common-collector small-signal short-circuit input impedance
h_{IE} —Common-emitter static input resistance
h_{ie} —Common-emitter small-signal short-circuit input impedance
$h_{ie(imag)}$ —Imaginary part of common-emitter small-signal short-circuit input impedance
$h_{ie(real)}$ —Real part of common-emitter small-signal short-circuit input impedance
h_{ob} —Common-base small-signal open-circuit output admittance
h_{oc} —Common-collector small-signal open-circuit output admittance
h_{oe} —Common-emitter small-signal open-circuit output admittance
$h_{oe(imag)}$ —Imaginary part of common-emitter small-signal open-circuit output admittance

$h_{oe(real)}$ —Real part of common-emitter small-signal open-circuit output admittance
h_{rb} —Common-base small-signal open-circuit reverse voltage transfer ratio
h_{rc} —Common-collector small-signal open-circuit reverse voltage transfer ratio
h_{re} —Common-emitter small-signal open-circuit reverse voltage transfer ratio
I_B —Base-terminal dc current
I_b —Alternating component (rms value) of base-terminal current
i_B —Instantaneous total value of base-terminal current
I_{BEV} —Base cutoff current, dc
$I_{B2(mod)}$ —Interbase modulated current
I_C —Collector-terminal dc current
I_c —Alternating component (rms value) of collector-terminal current
i_C —Instantaneous total value of collector-terminal current
I_{CBO} —Collector cutoff current (dc), emitter open
I_{CEO} —Collector cutoff current (dc), base open
I_{CER} —Collector cutoff current (dc), specified resistance between base and emitter
I_{CES} —Collector cutoff current (dc), base shorted to emitter
I_{CEV} —Collector cutoff current (dc), specified voltage between base and emitter
I_{CEX} —Collector cutoff current (dc), specified circuit between base and emitter
I_D —Drain current, dc
$I_{D(off)}$ —Drain cutoff current
$I_{D(on)}$ —On-state drain current
I_{DSS} —Zero-gate-voltage drain current
I_E —Emitter-terminal dc current
I_e —Alternating component (rms value) of emitter-terminal current
i_E —Instantaneous total value of emitter-terminal current
I_{EBO} —Emitter cutoff current (dc), collector open
I_{EB2O} —Emitter reverse current
$I_{EC(ofs)}$ —Emitter-collector offset current
I_{ECS} —Emitter cutoff current (dc), base short-circuited to collector
$I_{E1E2(off)}$ —Emitter cutoff current
I_F —For voltage-regulator and voltage-reference diodes: dc forward current. For signal diodes and rectifier diodes: dc forward current (no alternating component)
I_f —Alternating component of forward current (rms value)
i_F —Instantaneous total forward current
$I_{F(AV)}$ —Forward current, dc (with alternating component)
I_{FM} —Maximum (peak) total forward current
$I_{F(OV)}$ —Forward current, overload
I_{FRM} —Maximum (peak) forward current, repetitive
$I_{F(RMS)}$ —Total rms forward current
I_{FSM} —Maximum (peak) forward current, surge
I_G —Gate current, dc
I_{GF} —Forward gate current
I_{GR} —Reverse gate current
I_{GSS} —Reverse gate current, drain short-circuited to source
I_{GSSF} —Forward gate current, drain short-circuited to source
I_{GSSR} —Reverse gate current, drain short-circuited to source
I_I —Inflection-point current
$Im(h_{ie})$—Imaginary part of common-emitter small-signal short-circuit input impedance
$Im(h_{oe})$—Imaginary part of common-emitter small-signal open-circuit output admittance
I_O —Average forward current, 180° conduction angle, 60-Hz half sine wave
I_P —Peak-point current
I_R —For voltage-regulator and voltage-reference diodes: dc reverse current. For signal diodes and rectifier diodes: dc reverse current (no alternating component)
I_r —Alternating component of reverse current (rms value)
i_R —Instantaneous total reverse current
$I_{R(AV)}$ —Reverse current, dc (with alternating component)
I_{RM} —Maximum (peak) total reverse current
I_{RRM} —Maximum (peak) reverse current, repetitive
$I_{R(RMS)}$ —Total rms reverse current
I_{RSM} —Maximum (peak) surge reverse current
I_S —Source current, dc
I_{SDS} —Zero-gate-voltage source current
$I_{S(off)}$ —Source cutoff current
I_V —Valley-point current
I_Z —Regulator current, reference current (dc)
I_{ZK} —Regulator current, reference current (dc near breakdown knee)
I_{ZM} —Regulator current, reference current (dc maximum rated current)
K, k —Cathode
L_c —Conversion loss
M —Figure of merit
NF_o —Overall noise figure
NR_o —Output noise ratio
P_{BE} —Power input (dc) to base, common emitter
p_{BE} —Instantaneous total power input to base, common emitter
P_{CB} —Power input (dc) to collector, common base
p_{CB} —Instantaneous total power input to collector, common base
P_{CE} —Power input (dc) to collector, common emitter
p_{CE} —Instantaneous total power input to collector, common emitter
P_{EB} —Power input (dc) to emitter, common base
p_{EB} —Instantaneous total power input to emitter, common base
P_F —Forward power dissipation, dc (no alternating component)
p_F —Instantaneous total forward power dissipation
$P_{F(AV)}$—Forward power dissipation, dc (with alternating component)
P_{FM} —Maximum (peak) total forward power dissipation
P_{IB} —Common-base large-signal input power
p_{ib} —Common-base small-signal input power
P_{IC} —Common-collector large-signal input power
p_{ic} —Common-collector small-signal input power
P_{IE} —Common-emitter large-signal input power
p_{ie} —Common-emitter small-signal input power
P_{OB} —Common-base large-signal output power
p_{ob} —Common-base small-signal output power
P_{OC} —Common-collector large-signal output power
p_{oc} —Common-collector small-signal output power
P_{OE} —Common-emitter large-signal output power
p_{oe} —Common-emitter small-signal output power
P_R —Reverse power dissipation, dc (no alternating component)
p_R —Instantaneous total reverse power dissipation
$P_{R(AV)}$—Reverse power dissipation, dc (with alternating component)

P_{RM} —Maximum (peak) total reverse power dissipation
P_T —Total nonreactive power input to all terminals
p_T —Nonreactive power input, instantaneous total, to all terminals
Q_S —Stored charge
r_{BB} —Interbase resistance
$r_b C_c$ —Collector-base time constant
$r_{CE(sat)}$ —Saturation resistance, collector-to-emitter
$r_{DS(on)}$ —Static drain-source on-state resistance
$r_{ds(on)}$ —Small-signal drain-source on-state resistance
$Re(h_{ie})$ —Real part of common-emitter small-signal short-circuit input impedance
$Re(h_{oe})$ —Real part of common-emitter small-signal open-circuit output admittance
$r_{e1e2(on)}$ —Small-signal emitter-emitter on-state resistance
r_i —Dynamic resistance at inflection point
R_θ —Thermal resistance
$R_{\theta CA}$ —Thermal resistance, case to ambient
$R_{\theta JA}$ —Thermal resistance, junction to ambient
$R_{\theta JC}$ —Thermal resistance, junction to case
S, s —Source
T_A —Ambient temperature or free-air temperature
T_C —Case temperature
t_d —Delay time
$t_{d(off)}$ —Turn-off delay time
$t_{d(on)}$ —Turn-on delay time
t_f —Fall time
t_{fr} —Forward recovery time
T_J —Junction temperature
t_{off} —Turn-off time
t_{on} —Turn-on time
t_p —Pulse time
t_r —Rise time
t_{rr} —Reverse recovery time
t_s —Storage time
TSS —Tangential signal sensitivity
T_{stg} —Storage temperature
t_w —Pulse average time
U, u —Bulk (substrate)
V_{BB} —Base supply voltage (dc)
V_{BC} —Average or dc voltage, base to collector
V_{bc} —Instantaneous value of alternating component of base-collector voltage
V_{BE} —Average or dc voltage, base to emitter
v_{be} —Instantaneous value of alternating component of base-emitter voltage
$V_{(BR)}$ —Breakdown voltage (dc)
$v_{(BR)}$ —Breakdown voltage (instantaneous total)
$V_{(BR)CBO}$ —Collector-base breakdown voltage, emitter open
$V_{(BR)CEO}$ —Collector-emitter breakdown voltage, base open
$V_{(BR)CER}$ —Collector-emitter breakown voltage, resistance between base and emitter
$V_{(BR)CES}$ —Collector-emitter breakdown voltage, base shorted to emitter
$V_{(BR)CEV}$ —Collector-emitter breakdown voltage, specified voltage between base and emitter
$V_{(BR)CEX}$ —Collector-emitter breakdown voltage, specified circuit between base and emitter
$V_{(BR)EBO}$ —Emitter-base breakdown voltage, collector open
$V_{(BR)ECO}$ —Emitter-collector breakdown voltage, base
$V_{(BR)E1E2}$ —Emitter-emitter breakdown voltage
$V_{(BR)GSS}$ —Gate-source breakdown voltage
$V_{(BR)GSSF}$ —Forward gate-source breakdown voltage
$V_{(BR)GSSR}$ —Reverse gate-source breakdown voltage
V_{B2B1} —Interbase voltage
V_{CB} —Average or dc voltage, collector to base
v_{cb} —Instantaneous value of alternating component of collector-base voltage
$V_{CB(fl)}$ —Collector-base dc open-circuit voltage (floating potential)
V_{CBO} —Collector-base voltage, dc, emitter open
V_{CC} —Collector supply voltage (dc)
V_{CE} —Average or dc voltage, collector to emitter
v_{ce} —Instantaneous value of alternating component of collector-emitter voltage
$V_{CE(fl)}$ —Collector-emitter dc open-circuit voltage (floating potential)
V_{CEO} —Collector-emitter voltage (dc), base open
$V_{CE(ofs)}$ —Collector-emitter offset voltage
V_{CER} —Collector-emitter voltage (dc), resistance between base and emitter
V_{CES} —Collector-emitter voltage (dc), base shorted to emitter
$V_{CE(sat)}$ —Collector-emitter dc saturation voltage
V_{CEV} —Collector-emitter voltage (dc), specified voltage between base and emitter
V_{CEX} —Collector-emitter voltage (dc), specified circuit between base and emitter
V_{DD} —Drain supply voltage (dc)
V_{DG} —Drain-gate voltage
V_{DS} —Drain-source voltage
$V_{DS(on)}$ —Drain-source on-state voltage
V_{DU} —Drain-substrate voltage
V_{EB} —Average or dc voltage, emitter to base
v_{eb} —Instantaneous value of alternating component of emitter-base voltage
$V_{EB(fl)}$ —Emitter-base dc open-circuit voltage (floating potential)
V_{EBO} —Emitter-base voltage (dc), collector open
$V_{EB1(sat)}$ —Emitter saturation voltage
V_{EC} —Average or dc voltage, emitter to collector
v_{ec} —Instantaneous value of alternating component of emitter-collector voltage
$V_{EC(fl)}$ —Emitter-collector dc open-circuit voltage (floating potential)
$V_{EC(ofs)}$ —Emitter-collector offset voltage
V_{EE} —Emitter supply voltage (dc)
V_F —For voltage-regulator and voltage-reference diodes: dc forward voltage. For signal diodes and rectifier diodes: dc forward voltage (no alternating component)
V_f —Alternating component of forward voltage (rms value)
v_F —Instantaneous total forward voltage
$V_{F(AV)}$ —Forward voltage, dc (with alternating component)
V_{FM} —Maximum (peak) total forward voltage
$V_{F(RMS)}$ —Total rms forward voltage
V_{GG} —Gate supply voltage (dc)
V_{GS} —Gate-source voltage
V_{GSF} —Forward gate-source voltage
$V_{GS(off)}$ —Gate-source cutoff voltage
V_{GSR} —Reverse gate-source voltage
$V_{GS(th)}$ —Gate-source threshold voltage
V_{GU} —Gate-substrate voltage
V_I —Inflection-point voltage
V_{OB1} —Base-1 peak voltage
V_P —Peak-point voltage
V_{PP} —Projected peak-point voltage
V_R —For voltage-regulator and voltage-reference diodes: dc reverse voltage. For signal diodes and rectifier diodes: dc reverse voltage (no alternating component)
V_r —Alternating component of reverse voltage (rms value)

v_R —Instantaneous total reverse voltage
$V_{R(AV)}$ —Reverse voltage, dc (with alternating component)
V_{RM} —Maximum (peak) total reverse voltage
V_{RRM} —Repetitive peak reverse voltage
$V_{R(RMS)}$ —Total rms reverse voltage
V_{RSM} —Nonrepetitive peak reverse voltage
V_{RT} —Reach-through voltage
V_{RWM} —Working peak reverse voltage
V_{SS} —Source supply voltage (dc)
V_{SU} —Source-substrate voltage
$V_{(TO)}$ —Threshold voltage
V_V —Valley-point voltage
V_Z —Regulator voltage, reference voltage (dc)
V_{ZM} —Regulator voltage, reference voltage (dc at maximum rated current)
y_{fb} —Common-base small-signal short-circuit forward transfer admittance
y_{fc} —Common-collector small-signal short-circuit forward transfer admittance
y_{fe} —Common-emitter small-signal short-circuit forward transfer admittance
y_{fs} —Common-source small-signal short-circuit forward transfer admittance
$y_{fs(imag)}$ —Common-source small-signal forward transfer susceptance
$y_{fs(real)}$ —Common-source small-signal forward transfer conductance
y_{ib} —Common-base small-signal short-circuit input admittance
y_{ic} —Common-collector small-signal short-circuit input admittance
y_{ie} —Common-emitter small-signal short-circuit input admittance
$y_{ie(imag)}$ —Imaginary part of small-signal short-circuit input admittance (common-emitter)
$y_{ie(real)}$ —Real part of small-signal short-circuit input admittance (common-emitter)
y_{is} —Common-source small-signal short-circuit input admittance
$y_{is(imag)}$ —Common-source small-signal input susceptance
$y_{is(real)}$ —Common-source small-signal input conductance
y_{ob} —Common-base small-signal short-circuit output admittance
y_{oc} —Common-collector small-signal short-circuit output admittance
y_{oe} —Common-emitter small-signal short-circuit output admittance
$y_{oe(imag)}$ —Imaginary part of small-signal short-circuit output admittance (common-emitter)
$y_{oe(real)}$ —Real part of small-signal short-circuit output admittance (common-emitter)
y_{os} —Common-source small-signal short-circuit output admittance
$y_{os(imag)}$ —Common-source small-signal output susceptance
$y_{os(real)}$ —Common-source small-signal output conductance
y_{rb} —Common-base small-signal short-circuit reverse transfer admittance
y_{rc} —Common-collector small-signal short-circuit reverse transfer admittance
y_{re} —Common-emitter small-signal short-circuit reverse transfer admittance
y_{rs} —Common-source small-signal short-circuit reverse transfer admittance
$y_{rs(imag)}$ —Common-source small-signal reverse transfer susceptance
$y_{rs(real)}$ —Common-source small-signal reverse transfer conductance
z_{if} —Intermediate-frequency impedance
z_m —Modulator-frequency load impedance
z_{rf} —Radio-frequency impedance
$Z_{\theta JA(t)}$ —Junction-to-ambient transient thermal impedance
$Z_{\theta JC(t)}$ —Junction-to-case transient thermal impedance
$Z_{\theta(t)}$ —Transient thermal impedance
z_v —Video impedance
z_z —Regulator impedance, reference impedance (small-signal at I_Z)
z_{zk} —Regulator impedance, reference impedance (small-signal at I_{ZK})
z_{zm} —Regulator impedance, reference impedance (small-signal at I_{ZM})

PREFIX AND MANUFACTURER IDENTIFICATION

PREFIX	MANUFACTURER	PREFIX	MANUFACTURER	PREFIX	MANUFACTURER
BA	Rohm	MOC	Motorola	SLP	Sanyo
CEX	Control Electronics	MPS	Motorola	SN	Texas Instruments
DAC	National Semiconductor	MRF	Motorola	TA	Toshiba
FND	Fairchild	MU	Motorola	TIL	Texas Instruments
FRL	Litronix	MV	General Instrument	TIP	Motorola
ICM	Intersil	NE	Signetics	TLO	Texas Instruments
LF	National Semiconductor	NSM	National Semiconductor	TL	Texas Instruments
LM	National Semiconductor	PCIM	PC International	TLC	Toshiba
MA	National Semiconductor	S	American Micro Systems	TLR	Toshiba
MC	Motorola	SAD	Reticon	VN	Siliconix
MJ	Motorola	SE	Signetics	XC	Xciton
MM	National Semiconductor, Motorola or Teledyne	SEL	Sanken		
		SCS	Spectronics		

GENERIC PART NUMBER PREFIX CODE

AD	Analog To Digital	DA	Digital To Analog	LM	Linear Monolithic
AH	Analog Hybrid	DM	Digital Monolithic	MM	MOS Monolithic
AM	Analog Monolithic	LF	Linear FET	TBA	Linear Monolithic
CD	CMOS Digital	LH	Linear Hybrid		

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
0000000FR1	1104	000073230	1617	001-0163-02	565	001-044674-001	2009	004-03700	1104	0099203-005	1104	01-201-0	2009
0000000FR2	1104	000073231	1617	001-0163-15	562	001-044676-001	1122	004-2	2020	0099203-007	1104	01-9011-5/2221-3	2009
0000000FR3	1104	000073280	2017	001-01501-0	1123	001-044677-001	2016	005-02	1617	00200118	1104	01-9013-7/2221-3	2009
0000000MV4	1122	000073290	1617	001-02101-0	1617	001-21011	1617	C05-1	2020	008010028	1122	01-9014-2/2221-3	2009
0000000S13	1104	000073310	1617	001-02101-1	1617	001-223034	564	006-0080137A	2041	0031013029	2016	01-9016-4/2221-3	2009
0000001N60	1123	000073320	2017	001-02102-0	1617	001-226030	1104	006-0000146	1801	0031013045	2009	01-9018-6/2221-3	2009
00000010D1	1104	000073332	1617	001-02103-0	1617	002-006500	1617	006-0004443	2035	0031013049	2009	01-30828	2058
000000DS17	1104	000073333	1617	001-02104-0	1617	002-008300	2016	006-02	2023	0031013050	2023	01-30829	2009
000000DS18	1104	000073351	2016	001-02105-0	1617	002-009500	1617	007-0051-00	2030	0031013052	2023	01-57291	2020
000000DS-38	1104	000073361	2016	001-02106-0	1617	002-009502	1617	007-0051-01	2030	0031013056	2009	01-117005	2016
000000DS38	1104	000073370	2009	001-02107-0	1617	002-009502-12	1617	007-0112-00	2020	0031014003	1104	01-117006	2016
000000SD1AB	1104	000073380	2017	001-02108-0	1617	002-009600	2016	007-0112-04	2020	0031014008	1104	01-349418	2009
000000SD1T	1104	000073390	1617	001-02109-0	1617	002-009601	2016	007-0214-00	2035	0031014021	1123	01-349423	1617
000000SD44	1123	000073391	1617	001-02110-0	1617	002-009601-12	2016	007-0214-01	2035	0031014022	1122	01-349426	2058
000001S188	1123	0000DS410R	1122	001-02111-0	2009	002-009800	2023	007-214-00	2035	0031014024	1102	01-349634	2009
000001S334	562	0000FR202	1104	001-02111-1	1617	002-009800A	2023	007-1695001	1801	0031014029	1122	01-349681	2023
000001S990	1122	0000RS1542	1104	001-02113-2	1617	002-009900	1617	007-1695301	1802	0031014030	1104	01-472814	2009
0000010DC1	1104	0000SD-1AUF	1122	001-02113-3	1617	002-03	1617	007-1699301	1822	0063050118	1104	01-571591	2023
0000015330A	565	000-04	1617	001-02113-4	1617	002-010300	2023	007-7450301C	2041	01-03945	2016	01-571751	2023
00000DS18	1101	0001S188	1123	001-02113-5	1617	002-010300A	2023	009-00	2055	01-010473	2027	01-571794	2016
00000DS-38	1114	0001S188AM	1123	001-02119-0	2030	002-010400	1617	0018	2009	01-010495	2023	01-571804	2009
00000DS131	1104	0001S188FM	1123	001-02121-0	1617	002-010500	2023	0019-003485A	2023	01-010562	2023	01-571811	2009
00000DS410	1122	0002SC373	1617	001-02201-0	2023	002-010500A	2023	0020-0191	2009	01-010564	2023	01-571821	2009
00000SIB01	1104	0002SC373W	2009	001-02303-0	565	002-010600	2030	0020-0191(,2SC945)	2009	01-010628	2023	01-571941	1617
0000W209C	562	0002SC458B	2009	001-02303-3	561	002-010800	1617			01-010673	2023	01-572588	2023
0000-04	2009	0002SC458C	2009	001-02303-4	564	002-010900	2023	0020-0250	2009	01-010719	2023	01-572631	2055
0000-0141	2023	0002SC537F	2009	001-02405-0	1104	002-010900A	2023	0020-0330	2009	01-010733	2023	01-572774	2027
0000-0150	2023	0002SC644Q	2016	001-02405-1	1104	002-011400	2016	0020-0332	2009	01-010844	2023	01-572784	2020
0000-0300	2023	0002SC644S,R,Q	2016	001-02405-2	1104	002-011500	2016	0020-0351	2009	01-030372	2009	01-572791	2020
00001S155	1122	0002SC710B	2009	001-02406-0	1114	002-012000	1617	0020-0521	2058	01-030373	2016	01-572811	2023
00001S188	1123	0002SC710C	2009	001-02406-1	1114	002-012300	2027	0020-0531	2016	01-030380	2058	01-572814	2009
00001S330A	565	0002SC772C	2016	001-02601-0	1104	002-012400	2020	0020-0630	2009	01-030388	2009	01-572861	2020
00001S1555	1122	0002SC828	2009	001-02603-0	1104	002-012500	2030	0030-0091	2020	01-030394	2009	01-680815	2009
00001S1841	1104	0002SC828H	2009	001-02701-1	2035	002-012800	2023	0036-001	2023	01-030454	2009	01-690733	2023
00001S2076	1122	0002SC828Q	2009	001-02702-0	2035	002-012800A	2023	0050-0011	1123	01-030458	2009	01-690945	2009
00001S4460	1123	0002SC930D	2016	001-02703-0	2035	002-9501	2016	0050-0021	1123	01-030460	2009	01-691187	2058
00002SA550	2023	0002SC930E	2016	001-015010	1123	002-9502	2016	0050-0032	1123	01-030509	2009	01-691674	2016
00002SB435	2027	0002SC968P	2009	001-015011	1123	002-9502-12	2016	0050-0070	1122	01-030536	2009	01-700542	2023
00002SB460	2016	0002SC1023	2016	001-021010	2009	002-9601	2016	0050-0250	1122	01-030643	2055	01 ST-MPS9700D	2009
00002SB968	2009	0002SC1026	2016	001-021011	2009	002-9601-12	2016	0050-0300	1122	01-030668	2016	01K-4.6E	565
00002SC373	2009	0002SC1026A	2016	001-021020	2009	002-9800-A	2023	0050-0301	1122	01-030682	2016	01K-5 0E	565
00002SC460	2009	0002SC1026B	2016	001-021030	2009	002-12000	1617	0050-0302	1122	01-030710	2009	01K-5 2E	565
00002SC460A	2016	0002SC1026C	2016	001-021040	2009	002D235RY	2020	0051-0010	1104	01-030711	2009	01K5 4E	565
00002SC460B	2016	0002SC1032	2016	001-021050	2009	002SB435RY	2027	0051-0070	1104	01-030719	2023	01K-6 5E	561
00002SC460C	2016	0002SC1032A	2016	001-021060	2009	002SC668D	2016	0051-0100	1104	01-030732	2016	01K6 5E	561
00002SC461	2009	0002SC1032B	2016	001-021070	2016	002SC735-OY	2009	0051-0110	1104	01-030733	2023	01ST-MPS9700D	2009
00002SC535	2016	0002SC1032C	2016	001-021080	2009	002SC735OY	2009	0051-0130	1104	01-030734	2009	02-004558	038
00002SC536	2009	0002SC1061	2020	001-021090	2009	002SC1061	2017	0051-0160	1104	01-030735	2009	02-2SC458LGC	2009
00002SC537	2009	0002SC1061A	2020	001-021110	2030	002SC1209C	2009	0051-0290	1104 N1	01-030763	2016	02-1001-1/2221-3	1123
00002SC606	2016	0002SC1061B	2020	001-021111	2030	002SC7350Y	2009	0051-0291	1104 N2	01-030784	2058	02-1006-2/2221-3	1122
00002SC644	2016	0002SC1061C	2020	001-021130	2009	002SD235RY	2020	0051-0340	1104	01-030785	2058	02-1006-22221-3	1122
00002SC668	2016	0003-009700	563	001-021131	2009	003	1123	0051-0400	1020	01-030828	2009	02-3002-2/2221-3	1104
00002SC735	2009	000157GN	1123	001-021132	2009	003-00	2058	0054-0020	565	01-030829	2009	02-3002-22221-3	1104
00002SC772	2058	000188GN	1123	001-021133	2009	003-00200	1123	0054-0191	565	01-030900	2016	02-33379-6	2030
00002SC828	2009	000546-1	1617	001-021134	2009	003-004200	1123	0054-0240	563	01-030930	2016	02-124422	705
00002SC829	2016	000704	2009	001-021135	2009	003-005400	1123	0054-0240(,RD-12EB)	563	01-030945	2009	02-257205	705
00002SC838	2009	0001849	1104	001-021136	2016	003-006700	1123			01-031047	2016	02-437205	705
00002SC858	2016	0001849R	1104	001-021172	2023	003-007500	1123	0054-0250	1122	01-031166	2009	02-455804	038
00002SC870	1617	00023645	2009	001-021180	2041	003-009000	1123	0099-1030	1101	01-031173	2020	02 RECT-UG-1004	1173
00002SC870A	1617	00031011049	2009	001-021190	2030	003-009100	564	0099-1040	1122	01-031175	2009	02 ST-2SC1815Y	2009
00002SC870B	1617	00031013045	2009	001-021200	2041	003-009200	1123	001422	2009	01-031213	2009	02BZ4 7	565
00002SC870C	1617	00031014021	1123	001-021210	1617	003-009400	1104	003002	1123	01-031293	2016	02P1B	2023
00002SC929	2016	00031014022	1122	001-021218	1617	003-009600	1123	003007	1104	01-031317	2009	02RECT-UG-1004	1173
00002SC930	2016	000WG1010	1122	001-021270-1	2041	003-009700	563	003008	1122	01-031318	2009	02ST-2SC1815	2009
00002SC945	2009	00	2016	001-021290	2030	003-009900	1104	003015	1104	01-031327	2016	02ST-2SC1815Y	2009
00002SC968	1617	001-0000-00	1123	001-022010	2023	003-0	1067	003016	1123	01-031359	2009	02ST-2SC1875	2055
00002SC1023	2009	001-00	1617	001-022020	2023	003-01	2058	003017	1122	01-031360	2016	02Z-6.2A	561
00002SC1026	2016	001-007-00	1104	001-023030	565	003-02000	1123	003023	1102	01-031364	2009	02Z6.2A	561
00002SC1032	2016	001-0010-00	1123	001-023033	561	003-010000	563	003102	562	01-031674	2016	02Z6.2W	561
00002SC1061	2020	001-0020-00	1123	001-023034	564	004-00	1617	003111	562	01-031675	2009	02Z9.1	562
00002SD235	2020	001-0020-0	1123	001-023037	565	004-0027-00	1104	003113	565	01-031685	2009	02Z-9.1A	562
000071150	2023	001-0022-00	1123	001-024010	1104	004-00900	1122	003114	563	01-031686	2058	02Z9.1A	562
000071151	2023	001-0072-00	1104	001-024020	1104	004-002000	1104	003307	1122	01-031687	2058	02Z12A	563
000072020	1104	001-0077-00	1104	001-024030	1104	004-002700	1104	003449	2058	01-031688	2058	02Z12GR	563
000072050	1104	001-0081	1123	001-024050	1104	004-002800	1104	003460	2016	01-031815	2009	02Z15	564
000072090	1123	001-0082-00	561	001-024051	1104	004-003000	1104	003461	2016	01-031855	2058	02Z15A	564
000072150	562	001-0095-00	1122	001-024052	1104	004-003300	1104	004567	1104	01-031906	2016	02Z62A	561
000072160	1123	001-0095-02	1122	001-024060	1143	004-003400	1104	004746	2023	01-031923	2058	03-0018-0	1104
000072190	562	001-02	2023	001-024061	1143	004-003600	1104	004763	1122	01-032057	2058	03-160	1123
000073070	2016	001-03	2023	001-024080	2009	004-003700	1101	004792	2016	01-032076	2009	03-460C	2016
000073080	2016	001-04	2023	001-026010	1122	004-003900	1104	004987	563	01-040234	2020	03-461B	2016
000073090	1617	001-0101-01	562	001-026030	1122	004-004000	1114	0023645	2016	01-040243	2020	03-535A	2016
000073100	1617	001-0112-00	1122	001-026060	1122	004-004100	1104	0023820	1617	01-040313	2020	03-1585/G	1617
000073110	2020	001-0125-00	1122	001-027030	2035	004-009200	1123	0023829	2016	01-040389	2020	03-3016	1104
000073120	1617	001-0151-00	1122	001-044272-002	2009	004-03300	1104	0044028-014	1617	01-040476	2020	03-931051	1123
000073130	1617	001-0151-01	1122	001-044273-002	2030	004-03500	1104	0044020-14	1617	01-070030	2035	03-931601	1104
000073140	2058	001-0152-00	1104	001-044277-002	1104	004-03600	1104	0099201-325	562	01-0318145	2016	03-931609	1104

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
03-931642	1122	05-429602	1104	07-28777-100	561	09-302012	2009	09-302220	2016	09-306034	1104	09-306229	1123
03-931645	1122	05-480086	562	07-28778-80	2009	09-302014	2016	09-302222	2009	09-306036	1123	09-306231	1122
03-931771	1123	05-480205	565	07-28778-82	2023	09-302016	2009	09-302224	2016	09-306037	1123	09-306236	1122
03-931971	1104	05-480306	561	07-28815-75	2023	09-302017	2016	09-302225	2009	09-306040	1123	09-306239	562
03-933943	563	05-490090	1123	07-28815-76	2023	09-302020	2009	09-302227	2009	09-306042	1104	09-306241	562
03 SZ-RD12EB(AU)	563	05-490091	1123	07-28815-77	2023	09-302028	2016	09-302236	2020	09-306042(DIO)	1114	09-306244	1122
03A03	1617	05-490095	1123	07-28815-82	2009	09-302032	2016	09-302238	2055	09-306047	1123	09-306245	1104
03A04	2023	05-540001	1104	07-28815-83	2016	09-302033	2009	09-302240	2016	09-306049	1123	09-306247	562
03A05	1617	05-540091	562	07-28815-84	2009	09-302034	2009	09-302241	2058	09-306050	1104	09-306248	1122
03A09	2035	05-540094	562	07-28815-86	2009	09-302036	2016	09-302242	2058	09-306051	1123	09-306249	1104
03A11	2009	05-540112	1104	07-28815-89	2016	09-302037	2016	09-302244	2009	09-306053	1114	09-306250	1104
03A12	2009	05-610046	1123	07-28815-92	1104	09-302038	2009	09-302245	2055	09-306054	1104	09-306254	1104
03P05M	1067	05-750010	1104	07-28815-103	2027	09-302039	2009	09-302246	2055	09-306055	561	09-306255	1104
03P1M	1067	05-860002	1104	07-28815-108	2023	09-302040	2009	09-302325	561	09-306057	1123	09-306257	1114
03P2M	1067	05-860091	562	07-28815-116	1122	09-302041	2009	09-303018	2020	09-306058	1123	09-306263	1104
03P3M	1020	05-900006	1102	07-28815-118	1114 N2	09-302044	2016	09-303020	2020	09-306059	1104	09-306264	1104
03P4M	1020	05-931601	1104	07-28815-119	1114 N1	09-302045	1617	09-303021	2020	09-306061	1123	09-306266	1122
03SZ-RD12EB	563	05-931609	1104	07-28816-75	2009	09-302045-12	1617	09-303022	2017	09-306062	1122	09-306270	1123
03SZ-RD12EB(AO)	563	05-931642	1122	07-28816-76	1123	09-302053	2009	09-303031	2020	09-306063	1104	09-306274	1104
03SZ-RD12EB(AU)	563	05-931645	1122	07-28816-77	1104	09-302054	2009	09-303032	2020	09-306073	561	09-306283	1122
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023606	2035
023762	2041
025026	1104
025056	1104
025072	1114
026337	2009
030010	2009
030010-1	2009
030011	2030
030011-1	2030
030011-2	2030
030387	1067
030512-1	2009
030512-2	2009
030515	2009
030515-4	2009
030527	2009
030536	2009
030536-1	2009
030537	2009
030537-1	2009
030537-2	2009
030538	2009
030539-1	2041
030542	2009
030542-1	2009
030543	2009
030543-1	2009
030543-2	2009
030548	2009
030828	2016
030930	2058
031033	1123
031034	1104
031040	1123
031450	1143
033370	1101
033421	1101
033549	1101
033563	2016
035569	2023
037065	2041
040001	2016
041001	2023
041200-30110	1122
041616	1122
043001	2016
053480	2016
055210H	1104
055228	1114
055228H	1114
057001	1123
057001H	1123
057002	1123
057002H	1123
057019H	1123
057500	1123
059395	1123
061366	2009
062971	1000
071964-001	2041
075001	1123
080006	2016
080021	2016
080022	2016
080023	2016
080040	1104
080041	2016
080042	2016
080050	1104
080051	2016
080064	2016
082006	2009
082018	2009
082020	2009
082028	2009
084001	2023
085002	1123
085003	1122
085004	1123
085005	1123
085006	1123
085016	1123
085026	1123
0112945	1171
0112945(ELGIN)	1171
0170301	1122
0207205	705
0260540	562
0320031	2009
0320044	2009
0330303	562
0444026-01E	1617
0444026-01H	1617
0510006	1104
0517022	1123
0517132	1122
0517133	1122
0517550	1104
0517550-3	1104
0517730	1104
0517730H	1104
0517826	1123
0517828	1123
0517829	1123
0518926	1122
0525002	1123
0525002H	1123
0526224	1123
0526232	1122
0535001	1123
0535005	1123
0537640(DIO)	1104
0537620	1123
0551029	1171
0551029H	1171
0552006	1104
0552006H	1104
0552010	1104
0552010H	1104
0573519	1123
0573488	2009
0573064	1617
0573082	1617
0573418	1617
0573430	1617
0573448	1617

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
0573468(HITACHI)	2016	06100032	2023	06120619	2009	06200202(,RH-1ZV)		0F160	1104	.7ZM12C	563	1/2Z9.1T5	562
0573469	1617	06100033	2027	06130019	2055		1104	0F162	1122	.7ZM12D	563	1/2Z12T5	563
0573469H	1617	06100034	2023	06130033	2020	06200203	1104	0F173	1123	.7ZM15	564	1/2Z15T5	564
0573474	2016	06100035	2023	06130033(,KTD880-O)		06200203(,RU-1AV)		0N271	2009	.7ZM15A	564	1/2Z27.5T5	562
0573474H	2016	06100047	2023		2020		1104	0N186320-2	2401	.7ZM15B	564	3/4T12D5	563
0573475	2016	06100053	2023	06130033(,KTD880-Y)		06200207	1104	0.5Z5.1U	565	.7ZM15C	564	3/4Z12D5	563
0573479	2009	06100061	2023		2020	06200207(,SIB01-01V)		.4M4.7AZ5	565	.7ZM15D	564	3/4Z12D10	563
0573479H	1617	06100062	2023	06130037	2055		1104	.4M4.7AZ10	565	.25N9.1	562	1/042/2207	2009
0573480	2009	06100081	2023	06150031	2009	06200207(,SIB01-01W)		.4T9.1	562	.25N12	563	1-00004-064	1122
0573480(,2SC458C)		06100081		06150031(,KTC9014A)			1104	.4T9.1A	562	.25N15	564	1-00006-003	2009
	2009	(,KTA562TM-O)	2023		2009	06200226	1122	.4T9.1B	562	.25NN15	564	1-00005-007	1123
0573480(,2SC458D)		06100082	2023	06160008	2016	06200226(,1S2471)		.4T12A	563	.25T8.8A	562	1-00006-281	1122
	2009	06100083	2023	06170014	2009		1122	.4T12B	563	.25T9.1	562	1-080-199-00	1808
0573480H	2030	06100084	2023	06200001	1123	06200229	1102	.4T15	564	.25T9.1A	562	1-0002-001	1122
0573481	2009	06100085	2023	06200002	1123	06200229(,W03BTA)		.4T15A	564	.25T9.1B	562	1-00011-043	562
0573481H	1617	06100086	2023	06200003	1123		1104	.4T15B	564	.25T12	563	1-00038-008	1122
0573485	2016	06100094	2023	06200005	1114	06200230	1104	.5E05	1104	.25T12A	563	1-001/2207	1122
0573486	2016	06120003	2020	06200009	1114	06200230(,V09G-TA)		.5E1	1104	.25T12B	563	1-001-003-15	1617
0573486H	2009	06120005	2009	06200010	1102		1104	.5E2	1104	.25T15	564	1-014/2207	1122
0573487	2009	06120005(,2SC458(B))		06200013	1122	06200231	1104	.5E3	1104	.25T15A	564	1-034/2207	2023
0573487H	2009		2009	06200017	1123	06200231(,V09ETA)		.5E4	1104	.25T15B	564	1-035/2207	2030
0573490	1617	06120005(,2SC458-B)		06200027	1102		1104	.5E5	1104	.75N5	564	1-037/2207	1123
0573491	2009		2009	06200030	1104	06200232	1104	.5E6	1104	.75N5.1	565	1-041/2207	2016
0573491H	2009	06120005(,2SC458B)		06200039	1104	06200232(,UF-1)	1104	.5E7	1114	.75N6.2	561	1-042/2207	1617
0573492	2009		2009	06200044	1122	06200272	565	.5E8	1114	.75N12	563	1-043/2207	2023
0573494	2016	06120006	2009	06200045	1123	06200283	1104	.5E10	1114	1/47M.1AZ5	565	1-044/2207	1617
0573495	2016	06120006(,2SC458(C))		06200048	1122	06200284	1104	.5J05	1104	1/4A9.1	562	1-20-001-890	1104
0573506	2016		2009	06200051	1104	06200285	1104	.5J1	1104	1/4A9.1A	562	1-20-001890	1104
0573506H	2016	06120006(,2SC458-C)		06200052	1104	06200286	1104	.5J2	1104	1/4A9.1B	562	1-21-276	1617
0573507	2016		2009	06200055	561	06200288	1104	.5J3	1104	1/4A12	563	1-21-277	1617
0573507H	2016	06120006(,2SC458C)		06200058	563	06200295	565	.5J4	1104	1/4A12A	563	1-21-278	1617
0573508	2016		2009	06200059	563	06200323	1104	.5J5	1104	1/4A12B	563	1-21-279	1617
0573509	2058	06120008	2009	06200060	1173	06220069	1104	.5J6	1104	1/4A15	564	1-101	1104
0573509H	2016	06120009	2016	06200062	1102	06220069(,1N4002TA)		.5J7	1114	1/4A15A	564	1-425-636	1123
0573510	2016	06120015	2016	06200065	1114		1104	.5J8	1114	1/4A15B	564	1-506-319	1114
0573510H	2016	06120018	2020	06200071	1103	06220070	1102	.5J10	1114	1/4AZ4.7D	565	1-530-012-11	1104
0573511	2016	06120021	2020	06200072	1104	06220070(,1N4003)		.5M4.7Z55	565	1/4AZ4.7D5	565	1-531-016	1104
0573511H	2016	06120025	2009	06200073	1122		1102	.5M4.7Z510	565	1/4AZ4.7D10	565	1-531-027	1104
0573523	1617	06120025(,KTC388A)		06200085	562	06220071	1103	.5M5.1Z53	565	1/4AZ5.1D	565	1-531-105	1104
0573527	2030		2009	06200088	1104	06220071(,1N4004TA)		.5M8.7Z55	562	1/4AZ5.1D5	565	1-531-105-11	1104
0573529	1617	06120026	2009	06200095	1123		1103	.7E05	1104	1/4AZ5.1D10	565	1-531-105-13	1104
0573532	1617	06120028	2009	06200096	1123	06220167	1122	.7E1	1104	1/4AZ6.2D	561	1-531-106	1104
0573534	1617	06120030	2020	06200102	1104	06300039	1770	.7E2	1104	1/4AZ6.2D5	561	1-531-106-13	1104
0573547	2030	06120063	2009	06200103	1104	06300089	1770	.7E3	1104	1/4AZ6.2D10	561	1-531-106-17	1104
0573562	2041	06120073	2058	06200104	1104	06300219	1771	.7E4	1104	1/4LZ4.7D	565	1-534-105-13	1104
0573570	2016	06120085	2058	06200105	1104	06300316	2413	.7E5	1104	1/4LZ4.7D5	565	1-534-106-13	1104
0573607	2016	06120087	2009	06200107	1114	06400001	1067	.7E6	1104	1/4LZ4.7D10	565	1-801-003	1617
0573981	1617	06120087(,2SC1685Q)		06200108	561	07011751	2023	.7E7	1114	1/4LZ5.1D	565	1-801-003-12	2016
0575001	1123		2009	06200112	561	07227851	2009	.7E8	1114	1/4LZ5.1D5	565	1-801-003-13	2016
0575001H	1123	06120087(,2SC1685R)		06200113	562	07312771	2068	.7E10	1114	1/4LZ5.1D10	565	1-801-003-14	2016
0575002	1123		2009	06200113(,RD9.1EB)	562	08000001	1122	.7J05	1104	1/4LZ6.2D	561	1-801-003-15	2016
0575002AH	1123	06120096	2016	06200115	1122	08000015	1122	.7J1	1104	1/4LZ6.2D5	561	1-801-004	1617
0575002H	1123	06120151	2009	06200116	1122	08000016	1114	.7J2	1104	1/4LZ6.2D10	561	1-801-304-17	1617
0575004	1123	06120153	2055	06200117	1122	08000017(,GP-30B)		.7J3	1104	1/4M4.7AZ	565	1-801-309-11	1000
0575005	1123	06120168	2009	06200118	1104		1143	.7J5	1104	1/4M4.7AZ5	565	1-801-304-15	2016
0575005(,1N60)	1123	06120168(,GS9023-H)		06200119	1103	08000017(,GP-300)		.7J6	1104	1/4M4.7AZ10	565	1-801-305-13	2016
0575005H	1123		2009	06200122	1104		1143	.7J7	1114	1/4M5.1	565	1-801-306	2016
0575007	1123	06120168		06200123	1104	08020025	1102	.7J8	1114	1/4M5.1AZ	565	1-801-306-13	2016
0575019	1123	(,KTA562TM-O)	2023	06200124	1104	08020030	565	.7J10	1114	1/4M5.1AZ5	565	1-801-306-14	2016
0575019H	1123	06120168(,KTA562TM-Y)		06200129	561	08200043	1770	.7JZ9.1	562	1/4M5.1AZ10	565	1-801-306-15	2016
0575050	1114		2023	06200130	1122	08200043(,UPC7805H)		.7JZ12	563	1/4M5.1AZ25	565	1-801-314	1617
0575051	1104	06120168(,KTC1815-D)		06200130(,1S2473TA)			1770	.7JZ15	564	1/4M6.2AZ	561	1-801-314-15	1617
0575067	1123		2009		1122	08210047	2520	.7Z9.1	562	1/4M6.2AZ5	561	1-801-314-16	1617
0575099	1123	06120169	2009	06200130(,MA150)	1122	08210048	2521	.7Z9.1A	562	1/4M6.2AZ10	561	1-6732	2020
0576054	1104	06120169(,KTC1815-O)		06200158	1122	08220033	1251	.7Z9.1B	562	1/4M9.1Z	562	1-0259	1104
0576054(BIAS)	1104		2009	06200167	1122	08990208	1171	.7Z9.1C	562	1/4M9.1Z5	562	1-12689	1123
0576054(SW)	1122	06120169(,KTC1815Y)		06200167(,1N4148)		09302090	2009	.7Z9.1D	562	1/4M9.1Z10	562	1-16549	1122
0577001	1123		2009		1122	09306244	1122	.7Z12	563	1/4M12Z	563	1-20363	562
0620017	1123	06120170	2009	06200167(,1S2471A)		0A70	1123	.7Z12A	563	1/4M12Z5	563	1-79990A	2030
0622070	1102	06120171	2009		1122	0A90	1123	.7Z12B	563	1/4M12Z10	563	1-522223720	1617
01310131-0035	1104	06120172	2009	06200167(,1S2471TA)		0A90A-G	1123	.7Z12C	563	1/4M15Z	564	1-6147191221	1617
02600043	1123	06120173	2009		1122	0A90A-M	1123	.7Z12D	563	1/4M15Z5	564	1-4171191368	2009
04440028-002	1617	06120174	2009	06200168	563	0A90AM	1123	.7Z14A	564	1/4M15Z10	564	1-6501190016	1104
04440028-007	1617	06120227	2009	06200168(,RD12FBT)		0A90FM	1123	.7Z14C	564	1/4Z9.1D	562	1+12/1	1104
05320023	1617	06120229	2009		563	0A90G	1123	.7Z15	564	1/4Z9.1D5	565	1A0021	2009
05320074	1617	06120229(,KTC9014(C))		06200170	1114	0A90LF	1123	.7Z15A	564	1/4Z9.1D10	562	1A0022	2009
05750011	1123		2009	06200179	1122	0A90M	1123	.7Z15B	563	1/4Z12D	563	1A0024	2016
06100015	2023	06120229(,KTC9014A)		06200180	563	0A90MLF	1123	.7Z15C	564	1/4Z12D5	563	1A0025	2009
06100015(,2SA673(D))			2009	06200182	1104	0A90Z	1123	.7Z15D	564	1/4Z12D10	563	1A0029	2009
	2023	06120230	2009	06200182(,1S5295J)		0A90ZA	1123	.7ZM9.1	562	1/4Z12T5	563	1A0032	2009
06100015(,2SA673-C)		06120230(,KTC9014A)			1104	0A91	1123	.7ZM9.1A	562	1/4Z15D	564	1A0033	2009
	2023		2009	06200183	1104	0A95	1123	.7ZM9.1B	562	1/4Z15D5	564	1A0034	1617
06100016	2023	06120233	2009	06200183(,1S5295G)		0A99	1123	.7ZM9.1C	562	1/4Z15D10	564	1A0035	1617
06100016(,2SA673(C))		06120239	2009		1104	0A126/12	563	.7ZM9.1D	562	1/4Z15T5	564	1A0037	2009
	2023	06120240	2009	06200189	1104	0AZ209	565	.7ZM12	563	1/2Z4.7T5	565	1A0042	1617
06100016(,2SA673-D)		06120240(,KTC1815-Y		06200189(,RU-1V)	1104	0AZ243	561	.7ZM12A	563	1/2Z5.1T5	565	1A0044	2016
	2023	TA))	2009	06200202	1104	0AZ269	565	.7ZM12B	563	1/2Z6.2T5	561	1A0045	2009

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1A0046	2020	1BZ61-OR	1104	1E535B	2016	1HC-80F	1114	1M12Z	563	1N60AM	1123	1N96A	1123
1A0051	2009	1BZ61-Y	1104	1EA100A	1114	1HC-80R	1114	1M12Z3	563	1N60B	1123	1N97	1123
1A0058	2020	1C0009	1104	1ET02	1104	1HC-100F	1114	1M12Z5	563	1N60C	1123	1N97A	1123
1A0059	2020	1C0017	1122	1ET05	1104	1HC-100R	1114	1M12Z10	563	1N60D	1123	1N98	1123
1A0063	1617	1C0025	1104	1ET1	1104	1HY40	1104	1M12ZS5	563	1N60F	1123	1N98A	1123
1A0066	2030	1C0026	1104	1ET2	1104	1HY50	1104	1M12ZS10	563	1N60FA1	1123	1N99	1123
1A0067	2009	1C0029	1123	1ET3	1104	1HY80	1114	1M15Z	564	1N60FD1	1123	1N99A	1123
1A0070	2009	1C0031	1104	1ET4	1104	1HY100	1114	1M15Z3	564	1N60FM	1123	1N100	1123
1A0076	2009	1C0038	561	1ET5	1104	1J1	1617	1M15Z5	564	1N60FM-1	1123	1N100A	1123
1A0077	2009	1C03	2020	1ET6	1104	1J2C1	1114 N2	1M15Z10	564	1N60FM1	1123	1N103	1123
1A0078	2009	1C05	1104	1ET7	1114	1J2Z1	1114 N1	1M15ZS5	564	1N60FMX	1123	1N104	1123
1A0079	1617	1C09	2020	1ET8	1114	1JH11F	1104	1M15ZS10	564	1N60G	1123	1N105	1123
1A0080	1617	1C2	1104	1ET10	1114	1JH62	1104	1M383T	703	1N60GA	1123	1N107	1123
1A0081	1617	1C4	1104	1EZ4.7D	565	1JL50	1104	1M2086	1104	1N60GB	1123	1N108	1123
1A0083	2009	1C9.1Z	562	1EZ4.7D5	565	1JL51	1104	1M8513A	1104	1N60M	1123	1N109	1123
1A0084	2009	1C9.1ZA	562	1EZ4.7D10	565	1JL52	1104	1MA4	1104	1N60M3	1123	1N111	1123
1A01	2030	1C10	1114	1EZ4.7T10	565	1JL53	1104	1MJJ6.2	561	1N60MP	1123	1N112	1123
1A03	2030	1C12Z	563	1EZ5.1	565	1JL56	1104	1MJJ6.2A	561	1N60N	1123	1N113	1123
1A06	2030	1C12ZA	563	1EZ5.1D	565	1JL57	1104	1MJJ12	563	1N60P	1123	1N114	1123
1A07	2030	1C14	2020	1EZ5.1D5	565	1JL58	1114	1MJJ12A	563	1N60R	1123	1N115	1123
1A9.1M	562	1C15A	564	1EZ5.1D10	565	1JL59	1114	1MZ9.1T5	562	1N605	1123	1N116	1123
1A9.1MA	562	1C15Z	564	1EZ5.1T10	565	1JL63	1114	1MZ9.1T10	562	1N605D60	1123	1N116A	1123
1A9.1MB	562	1C15ZA	564	1EZ6.2D	561	1JL64	1114	1MZ9.1T20	562	1N60T	1123	1N117	1123
1A12M	563	1C73045	2020	1EZ6.2D5	561	1JZ61	1114	1N-22	1123	1N60TPGL	1123	1N117A	1123
1A12MA	563	1C744005	2016	1EZ6.2D10	561	1JZ61-A	1104	1N25	565	1N60TV	1123	1N118	1123
1A12MB	563	1D08	564	1EZ6.2T10	561	1JZ61-B	1104	1N25A	1122	1N60TVGL	1123	1N118A	1123
1A15M	564	1D2	1104	1EZ9.1	562	1JZ61-C	1104	1N31A	1123	1N60TV-TOGL	1123	1N119	1123
1A15MA	564	1D2C1	1114 N2	1EZ9.1D	562	1JZ61-D	1104	1N34	1123	1N60TVTP	1123	1N119A	1123
1A15MB	564	1D2C1LC2	1114 N2	1EZ9.1D5	562	1JZ61-K	1104	1N34A	1123	1N60TV-TPGL	1123	1N120	1123
1A17	2030	1D2Z1	1104	1EZ9.1D10	562	1JZ61-L	1104	1N34A(AU)	1123	1N60TVTPGL	1123	1N120A	1123
1A18	2030	1D4B1	1173	1EZ9.1T10	562	1JZ61-OR	1104	1N34AM	1123	1N60Z	1123	1N125	1123
1A59	565	1D4.7	565	1EZ12	563	1JZ61-Y	1104	1N34AS	1123	1N61A	1123	1N126	1123
1A60	565	1D4.7A	565	1EZ12D	563	1K2	1143	1N34A-T	1123	1N62	1123	1N126A	1123
1A62	561	1D4.7B	565	1EZ12D5	563	1K34A	1123	1N34A-Z	1123	1N63	1123	1N127	1123
1A10425	1104	1D5.1A	565	1EZ12D10	563	1K60	1123	1N34G	1123	1N63A	1123	1N128	1123
1A11184	1104	1D6.2A	561	1EZ12T10	563	1K60A	1123	1N34GA	1123	1N64	1123	1N128A	1123
1A11306	1123	1D6.2B	561	1EZ15	564	1K60R	1123	1N34M	1123	1N64A	1123	1N132	1123
1A11671	1104	1D6.25A	561	1EZ15D	564	1K90	1123	1N34N	1123	1N64B	1123	1N133	1123
1A12214	1104	1D6.25B	561	1EZ15D5	564	1K110	1123	1N34Z	1123	1N64G	1123	1N134	1123
1A12407	1104	1D8	1114	1EZ15D10	564	1K188	1123	1N35	1123	1N64GA	1123	1N135	1122
1A12688	562	1D10	1114	1EZ15T10	564	1K188FM	1123	1N36	1123	1N64P	1123	1N136	1123
1A12689	1123	1D100	1067	1F05	1104	1K188FM-1	1123	1N38	1123	1N65	1123	1N137	1123
1A12690	1104	1D101	1067	1F2	1104	1K261	1123	1N38A	1123	1N65A	1123	1N137A	1122
1A13219	1104	1D102	1067	1F8	1114	1KF20-04	1123	1N38B	1123	1N66	1123	1N137B	1122
1A13719	1104	1D103	1067	1F10	1114	1LE11	1114	1N39A	1102	1N66A	1123	1N138	1122
1A13720	1104	1D104	1067	1F14A	1104	1LE11-A	1114	1N40	1123	1N67	1123	1N138A	1122
1A14384	1123	1D261	1104	1FM2	1104	1LE11-B	1114	1N41	1123	1N67A	1123	1N138B	1122
1A15790	1104	1DC1	1104	1G01	1123	1LE11-C	1114	1N42	1123	1N67D	1123	1N139	1123
1A16549	1122	1DG2	1123	1G2Z	1104	1LE11-D	1114	1N43	1123	1N68	1123	1N140	1123
1A16550	1104	1DH62	1102	1G2Z1	1104 N1	1LE11-K	1114	1N44	1123	1N68A	1123	1N141	1123
1A16551	1122	1DZ12	563	1G4B1	1173	1LE11-L	1114	1N45	1123	1N69	1123	1N142	1123
1AC12	563	1DZ61	1104	1G4B41	1173	1LE11-OR	1114	1N46	1123	1N69A	1123	1N143	1123
1AC12A	563	1DZ61-A	1104	1G8	1114	1LE11-Y	1114	1N46A	1123	1N70	1123	1N144	1123
1AC12B	563	1DZ61-B	1104	1G25	1123	1LE11A	1114	1N47	1123	1N70A	1123	1N145	1123
1AC15	564	1DZ61-C	1104	1G86	1123	1LE11B	1114	1N48	1123	1N71	1123	1N148	1123
1AC15A	564	1DZ61-D	1104	1GD2	1123	1LE11C	1114	1N48A	1123	1N72	1123	1N151	1104
1AC15B	564	1DZ61-K	1104	1GD4	1123	1LE11D	1114	1N48N	1123	1N72G	1123	1N152	1104
1A5027	1114	1DZ61-L	1104	1GD5X	1123	1LE11K	1114	1N49	1123	1N73	1123	1N153	1104
1A5029	1114	1DZ61-OR	1104	1GD6	1123	1LE11L	1114	1N50	1123	1N74	1123	1N158	1104
1AZ9.1	562	1DZ61-Y	1104	1GD10	1123	1LE11R	1114	1N51	1123	1N75	1123	1N169	1104
1AZ12	563	1E02	1104	1GH62	1104	1LE11Y	1114	1N52	1123	1N75A	1123	1N191	1123
1AZ15	564	1E05	1104	1GZ61	1104	1LF11	1114	1N52A	1123	1N76	1123	1N192	1123
1B05	1171	1E-1	2030	1GZ61-A	1104	1LH62	1114	1N54	1123	1N76A	1123	1N194	1122
1B05J05	1171	1E1	1104	1GZ61-B	1104	1LM340T12	1771	1N54A	1123	1N76C	1123	1N194A	1122
1B05J20	1104	1E2	1104	1GZ61-C	1104	1LZ61	1114	1N54G	1123	1N76G	1123	1N194B	1122
1B05J40	1104	1E3	1104	1GZ61-D	1104	1LZ61-A	1114	1N54GA	1123	1N81	1123	1N195	1122
1B06	2041	1E4	1104	1GZ61-K	1104	1LZ61-B	1114	1N56	1123	1N81A	1123	1N196	1122
1B08T05	1171	1E5	1104	1GZ61-L	1104	1LZ61-C	1114	1N56A	1123	1N84	1123	1N198	1123
1B08T10	1171	1E6	1104	1GZ61-OR	1104	1LZ61-D	1114	1N57	1123	1N86	1123	1N198A	1123
1B1	1171	1E7	1114	1GZ61-Y	1104	1LZ61-K	1114	1N57A	1123	1N86AG	1123	1N198B	1123
1B1.1	1173	1E8	1114	1GZZ1	1104	1LZ61-L	1114	1N58	1123	1N87	1123	1N198N	1123
1B2Z1	1104	1E9.1D	562	1HC-10F	1104	1LZ61-OR	1114	1N58A	1123	1N87A	1123	1N200	1122
1B2Z1AY	1104	1E9.1D5	562	1HC-10R	1104	1LZ61-Y	1114	1N60	1123	1N87G	1123	1N200AR	1122
1B4	1173	1E9.1D10	562	1HC-15F	1104	1M4.7AZ10	565	1N60(GA)	1123	1N87GA	1123	1N201	1122
1B4B1	1173	1E9.1Z	562	1HC-1SR	1104	1M4.7ZS5	565	1N60(GB)	1123	1N87S	1123	1N202	1122
1B4B41	1171	1E9.1Z5	562	1HC-20F	1104	1M4.7ZS10	565	1N60/7825B	1123	1N87T	1123	1N203	1122
1B4.1	1173	1E9.1Z10	562	1HC-20R	1104	1M5.1AZ3	565	1N60-1	1123	1N88	1123	1N204	1122
1B10J20	1104	1E10	1114	1HC-25F	1104	1M5.1AZ10	565	1N60-5	1123	1N89	1123	1N205	1122
1B759	563	1E11Z	563	1HC-25R	1104	1M5.1ZS10	565	1N60-FA1	1123	1N90	1123	1N206	1122
1BH62	1104	1E11Z10	563	1HC-30F	1104	1M6.2AZ3	561	1N60-FD1	1123	1N90G	1123	1N207	1122
1BZ61	1104	1E12Z	563	1HC-30R	1104	1M6.2AZ10	561	1N60-FM	1123	1N90GA	1123	1N208	1122
1BZ61-A	1104	1E12Z5	563	1HC-40F	1104	1M6.2ZS10	561	1N60-M3	1123	1N91	1123	1N209	1122
1BZ61-B	1104	1E12Z10	563	1HC-40R	1104	1M9.1Z	562	1N60-S	1123	1N92	1104	1N210	1122
1BZ61-C	1104	1E15Z	564	1HC-50F	1104	1M9.1Z5	562	1N60-T	1123	1N93	1104	1N211	1122
1BZ61-D	1104	1E15Z5	564	1HC-50R	1104	1M9.1Z10	562	1N60-TF1	1123	1N93A	1104	1N212	1122
1BZ61-K	1104	1E15Z10	564	1HC-60F	1104	1M9.1ZS5	562	1N60-Z	1123	1N95	1123	1N213	1122
1BZ61-L	1104	1E535A	2058	1HC-60R	1104	1M9.1ZS10	562	1N60A	1123	1N96	1123	1N214	1122

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
1N215	1122	1N325	1104	1N451	1123	1N508	1104	1N643A	1122	1N761A	565	1N839	1122
1N216	1122	1N325A	1104	1N452	1123	1N509	1114	1N645	1104	1N764	562	1N840	1122
1N217	1122	1N326	1104	1N453	1123	1N510	1114	1N645-1	1104	1N764-2	562	1N840M	1122
1N218	1122	1N326A	1104	1N454	1123	1N511	1104	1N645A	1103	1N764-3	562	1N841	1122
1N219	1103	1N327	1104	1N455	1123	1N512	1104	1N645B	1103	1N764-4	562	1N842	1122
1N220	1103	1N327A	1104	1N456	1122	1N513	1104	1N645J	1103	1N764A	562	1N843	1122
1N221	1103	1N328	1114	1N456A	1122	1N514	1104	1N645TH	1104	1N766-1	563	1N844	1122
1N222	1103	1N328A	1114	1N457	1122	1N515	1104	1N646	1104	1N767-1	564	1N845	1122
1N225	562	1N329	1114	1N457A	1122	1N516	1104	1N646TH	1104	1N770	1123	1N846	1104
1N225A	562	1N329A	1114	1N457AM	1104	1N517	1114	1N647	1104	1N771	1123	1N847	1104
1N251	1122	1N330	1122	1N457M	1122	1N518	1114	1N647-1	1104	1N771A	1123	1N848	1104
1N251A	1122	1N331	1122	1N458	1122	1N519	1104	1N647TH	1104	1N771B	1123	1N849	1104
1N252	1122	1N350	1122	1N458A	1122	1N520	1104	1N648	1104	1N772	1122	1N850	1104
1N252A	1122	1N351	1122	1N458AM	1122	1N521	1104	1N648TH	1104	1N772A	1123	1N851	1104
1N265	1123	1N352	1122	1N458M	1122	1N522	1104	1N649	1104	1N773	1123	1N852	1104
1N266	1123	1N353	1122	1N459	1122	1N523	1104	1N649-1	1104	1N773A	1123	1N853	1114
1N267	1123	1N354	1103	1N459A	1122	1N524	1104	1N649TH	1104	1N774	1123	1N854	1114
1N268	1123	1N355	1123	1N459M	1122	1N525	1114	1N658	1122	1N774A	1123	1N855	1114
1N270	1123	1N359	1104	1N460	1122	1N526	1114	1N658A	1122	1N775	1123	1N856	1114
1N273	1123	1N359A	1104	1N460A	1122	1N527	1123	1N658M	1122	1N776	1123	1N857	1104
1N276	1123	1N360	1104	1N460B	1122	1N530	1104	1N659	1122	1N777	1123	1N858	1104
1N277	1123	1N360A	1104	1N461	1122	1N531	1104	1N659/A	1122	1N778	1122	1N859	1104
1N278	1123	1N361	1104	1N461A	1122	1N532	1104	1N659A	1122	1N779	1122	1N860	1104
1N279	1123	1N361A	1104	1N462	1122	1N533	1104	1N660	1122	1N781	1123	1N861	1104
1N281	1123	1N362	1104	1N462A	1104	1N534	1104	1N660A	1122	1N781A	1123	1N862	1104
1N282	1123	1N362A	1104	1N462AM	1104	1N535	1104	1N661	1122	1N788	1122	1N863	1104
1N283	1123	1N363	1104	1N462M	1122	1N536	1104	1N661A	1122	1N789	1122	1N864	1114
1N285	1123	1N363A	1104	1N463	1122	1N537	1104	1N662	1122	1N789M	1122	1N865	1114
1N287	1123	1N364	1114	1N463A	1122	1N538	1104	1N662A	1122	1N790	1122	1N866	1114
1N288	1123	1N364A	1114	1N464	1122	1N539	1104	1N663	1122	1N790M	1122	1N867	1114
1N289	1123	1N365	1114	1N464A	1122	1N540	1104	1N663A	1122	1N791	1122	1N868	1104
1N290	1123	1N365A	1114	1N468	565	1N541	1123	1N663M	1122	1N791M	1122	1N869	1104
1N291	1123	1N367	1123	1N468A	565	1N542	1123	1N665	563	1N792	1122	1N870	1104
1N292	1123	1N367B	1123	1N473	565	1N542A	1123	1N666	564	1N792M	1122	1N871	1104
1N294	1123	1N368	1104	1N473A	565	1N542MP	1123	1N673	1104	1N793	1122	1N872	1104
1N294A	1123	1N376	565	1N473B	565	1N547	1104	1N674	565	1N793M	1122	1N873	1104
1N295	1123	1N377	561	1N476	1123	1N548	1114	1N675	561	1N794	1122	1N874	1104
1N295A	1123	1N379	1122	1N477	1123	1N560	1114	1N676	1104	1N795	1122	1N875	1114
1N2955	1123	1N380	1122	1N478	1123	1N561	1114	1N677	1104	1N796	1122	1N876	1114
1N295X	1123	1N381	1122	1N479	1123	1N564	1123	1N678	1104	1N797	1122	1N877	1114
1N296	1123	1N382	1122	1N480	1123	1N568	1123	1N679	1104	1N798	1122	1N878	1114
1N297	1123	1N383	1122	1N480B	1104	1N569	1123	1N681	1104	1N799	1122	1N879	1104
1N297A	1123	1N384	1122	1N482	1122	1N571	1123	1N682	1104	1N800	1122	1N880	1104
1N298	1123	1N385	1122	1N482A	1122	1N596	1104	1N683	1104	1N801	1122	1N881	1104
1N298A	1123	1N386	1122	1N482AM	1122	1N597	1114	1N684	1104	1N802	1122	1N881B	1104
1N300	1122	1N387	1122	1N482B	1122	1N598	1114	1N685	1104	1N803	1122	1N882	1104
1N300A	1122	1N388	1122	1N482BM	1122	1N599	1104	1N686	1104	1N804	1122	1N883	1104
1N300B	1122	1N389	1122	1N482C	1122	1N599A	1104	1N687	1104	1N805	1123	1N884	1104
1N301	1122	1N390	1122	1N482M	1122	1N600	1104	1N689	1104	1N806	1122	1N885	1104
1N301A	1122	1N391	1122	1N482TH	1104	1N600A	1104	1N690	1122	1N807	1122	1N886	1114
1N301B	1122	1N392	1122	1N483	1122	1N600KB	1122	1N691	1122	1N808	1122	1N887	1114
1N302	1122	1N393	1122	1N483A	1122	1N601	1104	1N692	1122	1N809	1122	1N888	1114
1N302A	1122	1N394	1122	1N483AM	1122	1N601A	1104	1N693	1122	1N810	1122	1N889	1114
1N302B	1122	1N400	1104	1N483B	1122	1N601S34	1123	1N695	1123	1N811	1122	1N890	1122
1N303	1122	1N400B	1104	1N483BM	1122	1N602	1104	1N695A	1123	1N811M	1122	1N890M	1122
1N303A	1122	1N417	1123	1N483C	1122	1N602A	1104	1N696	1122	1N812	1122	1N891	1122
1N303B	1122	1N418	1123	1N483M	1104	1N603	1104	1N697	1122	1N812M	1122	1N892	1122
1N304	1123	1N419	1123	1N483TH	1104	1N603A	1104	1N698	1123	1N813	1122	1N897	1122
1N305	1123	1N429	561	1N484	1122	1N604	1104	1N699	1123	1N813M	1122	1N898	1122
1N306	1123	1N431	1122	1N484A	1122	1N604A	1104	1N705	565	1N814	1122	1N899	1122
1N307	1123	1N432	1122	1N484B	1122	1N605	1104	1N705A	565	1N814M	1122	1N900	1122
1N308	1123	1N432A	1122	1N484C	1122	1N605A	1104	1N709	561	1N815	1122	1N901	1122
1N309	1123	1N432B	1122	1N484TH	1104	1N606	1104	1N709A	561	1N815M	1122	1N902	1122
1N310	1123	1N433	1122	1N485	1122	1N606A	1104	1N709B	561	1N816	1122	1N903	1122
1N312	1123	1N433A	1122	1N485A	1122	1N616	1123	1N713	562	1N817	1122	1N903/A	1122
1N313	1123	1N433B	1122	1N485B	1122	1N617	1123	1N713A	562	1N818	1122	1N903A	1122
1N314	1123	1N434	1122	1N485C	1122	1N618	1123	1N713B	562	1N818M	1122	1N903AM	1122
1N315	1104	1N434A	1122	1N485TH	1104	1N619	1122	1N716	563	1N819	1104	1N903M	1122
1N315A	1104	1N434B	1122	1N486	1122	1N622	1122	1N716A	563	1N821	561	1N904	1122
1N316	1104	1N435	1123	1N486A	1122	1N625	1122	1N716B	563	1N821A	561	1N904/A	1122
1N316A	1104	1N440	1104	1N486B	1122	1N625A	1122	1N718	564	1N822	561	1N904A	1122
1N317	1104	1N440B	1104	1N486TH	1104	1N625M	1122	1N718A	564	1N822A	561	1N904AM	1122
1N317A	1104	1N441	1104	1N487TH	1104	1N626	1122	1N718B	564	1N822AG	561	1N904M	1122
1N318	1104	1N441B	1104	1N488TH	1104	1N626A	1122	1N750	565	1N823	561	1N905	1122
1N318A	1104	1N442	1104	1N490	1123	1N626M	1122	1N750A	565	1N823A	561	1N905/A	1122
1N319	1104	1N442B	1104	1N492	563	1N627	1122	1N751	565	1N824	561	1N905A	1122
1N319A	1104	1N443	1104	1N493	563	1N627A	1122	1N751A	565	1N824A	561	1N905AM	1122
1N320	1104	1N443B	1104	1N497	1123	1N628	1122	1N753	561	1N825	561	1N905M	1122
1N320A	1104	1N444	1104	1N498	1123	1N628A	1122	1N753A	561	1N825A	561	1N906	1122
1N321	1114	1N444B	1104	1N499	1123	1N629	1122	1N757	562	1N827	561	1N906/A	1122
1N321A	1114	1N445	1104	1N500	1123	1N629A	1122	1N757A	562	1N827A	561	1N906A	1122
1N322	1114	1N445B	1104	1N501	1123	1N631	1123	1N759	563	1N829	561	1N906AM	1122
1N322A	1114	1N446	1123	1N503	1104	1N632	1123	1N759A	563	1N829A	561	1N906M	1122
1N323	1104	1N447	1123	1N504	1104	1N633	1122	1N760	1122	1N835	1123	1N907	1122
1N323A	1104	1N448	1123	1N505	1104	1N636	1123	1N761	565	1N837	1122	1N907/A	1122
1N324	1104	1N449	1123	1N506	1104	1N636A	1123	1N761-1	565	1N837A	1122	1N907A	1122
1N324A	1104	1N450	1123	1N507	1104	1N643	1122	1N761-2	565	1N838	1122	1N907AM	1122

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1N907M	1122	1N995M	1123	1N1440	1104	1N1766	561	1N2076	1104	1N2615	1104	1N3184	1104
1N908	1122	1N996	1123	1N1441	1104	1N1766A	561	1N2077	1104	1N2616	1114	1N3185	1114
1N908/A	1122	1N997	1122	1N1442	1104	1N1770	562	1N2078	1104	1N2617	1114	1N3186	1114
1N908A	1122	1N998	1104	1N1443	1114	1N1770A	562	1N2079	1104	1N2620	562	1N3189	1104
1N908AM	1122	1N999	1122	1N1443A	1114	1N1773	563	1N2080	1104	1N2620A	562	1N3190	1104
1N908M	1122	1N1008	1104	1N1443B	1114	1N1773A	563	1N2081	1104	1N2620B	562	1N3191	1104
1N909	1123	1N1028	1104	1N1484	565	1N1775	564	1N2082	1104	1N2621	562	1N3193	1104
1N910	1123	1N1029	1104	1N1485	561	1N1775A	564	1N2083	1104	1N2621A	562	1N3194	1104
1N911	1123	1N1030	1104	1N1486	1104	1N1779	561	1N2084	1104	1N2621B	562	1N3195	1104
1N914	1122	1N1031	1104	1N1487	1104	1N1839	1122	1N2085	1104	1N2622	562	1N3196	1114
1N914/A/B	1122	1N1032	1104	1N1488	1104	1N1840	1122	1N2086	1104	1N2622A	562	1N3197	1122
1N914A	1122	1N1033	1104	1N1489	1104	1N1841	1122	1N2088	1104	1N2622B	562	1N3203	1104
1N914B	1122	1N1052	1104	1N1490	1104	1N1842	1122	1N2089	1104	1N2623	562	1N3204	1123
1N914F	1122	1N1053	1104	1N1491	1104	1N1843	1122	1N2090	1104	1N2623A	562	1N3206	1122
1N914M	1122	1N1054	1114	1N1492	1104	1N1844	1122	1N2091	1104	1N2623B	562	1N3207	1122
1N915	1122	1N1055	1143	1N1508	565	1N1845	1122	1N2092	1104	1N2624	562	1N3221	1114
1N916	1122	1N1056	1114	1N1508A	565	1N1846	1122	1N2093	1104	1N2624A	562	1N3223	1122
1N916A	1122	1N1057	1114	1N1513	563	1N1847	1122	1N2094	1104	1N2624B	562	1N3227	1143
1N916B	1122	1N1081	1104	1N1513A	563	1N1848	1122	1N2095	1104	1N2638	1104	1N3228	1143
1N917	1122	1N1081A	1104	1N1514	564	1N1849	1103	1N2096	1104	1N2650	1104	1N3237	1141
1N919	1122	1N1082	1104	1N1514A	564	1N1850	1103	1N2103	1104	1N2653	1114	1N3238	1143
1N920	1122	1N1082A	1104	1N1519	565	1N1877	563	1N2104	1104	1N2790	562	1N3239	1143
1N921	1122	1N1083	1104	1N1519A	565	1N1877A	563	1N2105	1104	1N2801	1123	1N3240	1144
1N922	1122	1N1083A	1104	1N1524	563	1N1878	564	1N2106	1104	1N2858	1104	1N3246	1141
1N923	1122	1N1084	1104	1N1524A	563	1N1878A	564	1N2107	1104	1N2858A	1141	1N3247	1143
1N924	1122	1N1084A	1104	1N1525	564	1N1907	1104	1N2108	1104	1N2859	1143	1N3248	1143
1N925	1122	1N1093	1123	1N1525A	564	1N1908	1104	1N2115	1104	1N2859A	1143	1N3249	1144
1N926	1122	1N1095	1104	1N1530	562	1N1909	1104	1N2116	1104	1N2860	1104	1N3253	1104
1N927	1122	1N1096	1104	1N1530A	562	1N1910	1144	1N2117	1104	1N2860A	1143	1N3254	1104
1N928	1122	1N1100	1104	1N1556	1143	1N1911	1104	1N2163	562	1N2861	1104	1N3255	1104
1N929	1122	1N1101	1104	1N1557	1143	1N1912	1104	1N2163A	562	1N2861A	1144	1N3256	1114
1N930	1122	1N1102	1104	1N1558	1144	1N1913	1104	1N2164	562	1N2862	1104	1N3257	1122
1N931	1122	1N1103	1104	1N1559	1144	1N1914	1114	1N2164A	562	1N2862A	1144	1N3258	1122
1N932	1122	1N1104	1104	1N1561	1123	1N1915	1114	1N2165	562	1N2863	1104	1N3277	1104
1N933	1122	1N1104R	1104	1N1562	1123	1N1916	1114	1N2165A	562	1N2864	1104	1N3278	1104
1N934	1122	1N1105	1104	1N1563	1143	1N1928	565	1N2166	562	1N2878	1114	1N3279	1104
1N935	562	1N1108	1114	1N1563A	1104	1N1928A	565	1N2166A	562	1N2879	1114	1N3280	1114
1N935A	562	1N1122A	1104	1N1564	1143	1N1933	563	1N2167	562	1N2880	1114	1N3281	1114
1N935B	562	1N1169	1104	1N1564A	1104	1N1933A	563	1N2167A	562	1N2881	1114	1N3282	1114
1N936	562	1N1169A	1104	1N1565	1144	1N1934	564	1N2168	562	1N2882	1114	1N3287	1123
1N936A	562	1N1217	1114	1N1565A	1104	1N1934A	564	1N2168A	562	1N2883	1114	1N3287N	1123
1N936B	562	1N1217A	1114	1N1566	1144	1N1934B	564	1N2169	562	1N3019	562	1N3287W	1123
1N937	562	1N1217B	1114	1N1566A	1104	1N1955	565	1N2169A	562	1N3019A	562	1N3298	1104
1N937A	562	1N1218	1114	1N1567A	1104	1N1955A	565	1N2170	562	1N3019B	562	1N3381	1101
1N937B	562	1N1218A	1114	1N1568A	1104	1N1960	563	1N2170A	562	1N3022	563	1N3382	1122
1N938	562	1N1218B	1114	1N1617	1143	1N1960A	563	1N2171	562	1N3022A	563	1N3383	1101
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1N939B	562	1N1220A	1143	1N1630	1122	1N1987A	563	1N2391	1143	1N3062	1122	1N3388	1103
1N940	562	1N1220B	1143	1N1638	1122	1N1987B	563	1N2392	1143	1N3063	1122	1N3389	1103
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1N940B	562	1N1221A	1144	1N1645	1143	1N1988A	564	1N2394	1144	1N3065	1122	1N3403	563
1N941	563	1N1221B	1144	1N1646	1143	1N1988B	564	1N2399	1141	1N3066	1122	1N3404	564
1N941A	563	1N1222	1144	1N1647	1143	1N2013	1141	1N2400	1143	1N3067	1122	1N3411	561
1N941B	563	1N1222A	1144	1N1648	1144	1N2014	1143	1N2401	1143	1N3068	1122	1N3416	563
1N942	563	1N1222B	1144	1N1649	1144	1N2015	1143	1N2402	1144	1N3069	1122	1N3417	564
1N942A	563	1N1225	1114	1N1650	1144	1N2016	1143	1N2403	1144	1N3069M	1122	1N3465	1123
1N942B	563	1N1225A	1114	1N1651	1144	1N2017	1144	1N2408	1141	1N3070	1122	1N3466	1123
1N943	563	1N1225B	1114	1N1692	1104	1N2018	1144	1N2409	1143	1N3071	1122	1N3467	1123
1N943A	563	1N1226	1114	1N1693	1104	1N2019	1144	1N2410	1143	1N3072	1141	1N3468	1123
1N943B	563	1N1226A	1114	1N1694	1104	1N2020	1144	1N2411	1144	1N3073	1143	1N3469	1123
1N944	563	1N1226B	1114	1N1695	1104	1N2026	1141	1N2412	1144	1N3074	1143	1N3470	1123
1N944A	563	1N1251	1104	1N1696	1104	1N2032	565	1N2417	1114	1N3075	1143	1N3471	1122
1N944B	563	1N1252	1104	1N1697	1104	1N2032-1	565	1N2418	1114	1N3076	1144	1N3473	1104
1N945	563	1N1253	1104	1N1701	1104	1N2032-2	565	1N2419	1114	1N3077	1144	1N3474	1104
1N945A	563	1N1254	1104	1N1702	1104	1N2032A	565	1N2420	1114	1N3078	1144	1N3475	1104
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1N946	563	1N1255A	1104	1N1704	1104	1N2033-2	561	1N2422	1114	1N3082	1143	1N3482	1123
1N946A	563	1N1256	1104	1N1705	1104	1N2035	562	1N2423	1114	1N3083	1144	1N3483	1123
1N946B	563	1N1257	1104	1N1706	1104	1N2035-2	562	1N2424	1114	1N3094	1104	1N3484	1123
1N947	1104	1N1258	1114	1N1707	1104	1N2035-3	562	1N2425	1114	1N3108	562	1N3486	1143
1N948	1122	1N1259	1114	1N1708	1104	1N2035-4	562	1N2482	1104	1N3110	1123	1N3496	561
1N949	1123	1N1260	1114	1N1709	1104	1N2037-1	563	1N2483	1104	1N3112	2030	1N3497	561
1N960	562	1N1261	1114	1N1710	1104	1N2037A	563	1N2484	1104	1N3121	1123	1N3498	561
1N960A	562	1N1313	562	1N1711	1104	1N2038-1	564	1N2485	1104	1N3122	1123	1N3499	561
1N960B	562	1N1313A	562	1N1712	1104	1N2069	1104	1N2486	1104	1N3123	1122	1N3500	561
1N963	563	1N1337-5	1104	1N1713	563	1N2069A	1104	1N2487	1104	1N3124	1122	1N3510	565
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1N963B	563	1N1406	1104	1N1730A	1114	1N2070A	1104	1N2489	1104	1N3146	1123	1N3513	561
1N965	564	1N1407	1114	1N1735	561	1N2071	1104	1N2609	1104	1N3147	1122	1N3517	562
1N965A	564	1N1408	1114	1N1736	563	1N2071A	1104	1N2610	1104	1N3148	562	1N3520	563
1N965B	564	1N1415	1104	1N1736A	563	1N2072	1104	1N2611	1104	1N3160	1104	1N3522	564
1N993	1122	1N1426	563	1N1763	1104	1N2073	1104	1N2612	1104	1N3179	1102	1N3537	563
1N994	1123	1N1427	564	1N1763A	1144	1N2074	1104	1N2613	1144	1N3180	1102	1N3544	1104
1N995	1123	1N1439	1104	1N1764	1104	1N2075	1104	1N2614	1104	1N3183	1104	1N3545	1104

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
1N3546	1104	1N3728	1103	1N4093	1122	1N4368	1104	1N4583B	561	1N4776A	562	1N5194	1122
1N3547	1104	1N3731	1104	1N4095	565	1N4369	1104	1N4584	561	1N4777	562	1N5195	1122
1N3548	1104	1N3732	565	1N4102	562	1N4375	1122	1N4584A	561	1N4777A	562	1N5196	1122
1N3549	1104	1N3736A	561	1N4103	562	1N4376	1122	1N4585GP	1114	1N4778	562	1N5197	1141
1N3550	1122	1N3748	1143	1N4103A	562	1N4382	1122	1N4586GP	1114	1N4778A	562	1N5199	1143
1N3553	561	1N3749	1144	1N4106	563	1N4383	1104	1N4606	1122	1N4779	562	1N5200	1144
1N3559	1123	1N3753	1123	1N4106A	563	1N4383GP	1102	1N4606R	1122	1N4779A	562	1N5208	1122
1N3564	1123	1N3754	1104	1N4109	564	1N4384	1104	1N4607	1122	1N4780	562	1N5209	1122
1N3575	1122	1N3755	1143	1N4139	1141	1N4384GP	1103	1N4608	1122	1N4780A	562	1N5210	1122
1N3576	1122	1N3756	1144	1N4140	1143	1N4385	1104	1N4610	1122	1N4781	562	1N5211	1104
1N3577	1122	1N3757	1143	1N4141	1143	1N4385GP	1104	1N4624	565	1N4781A	562	1N5212	1104
1N3578	1103	1N3758	1144	1N4142	1144	1N4389	1122	1N4625	565	1N4782	562	1N5213	1104
1N3579	1103	1N3769	1123	1N4147	1122	1N4392	1122	1N4627	561	1N4782A	562	1N5214	1114
1N3580	563	1N3773	1123	1N4148	1122	1N4395	1122	1N4631	562	1N4783	562	1N5215	1104
1N3580A	563	1N3782	563	1N4148(AU)	1122	1N4395A	1122	1N4634	563	1N4783A	562	1N5216	1104
1N3580B	563	1N3782A	563	1N4148F	1122	1N4403	562	1N4636	564	1N4784	562	1N5217	1104
1N3581	563	1N3782B	563	1N4148TD	1122	1N4403A	562	1N4653	565	1N4784A	562	1N5218	1114
1N3581A	563	1N3784	563	1N4148TE	1122	1N4403B	562	1N4654	565	1N4816	1141	1N5219	1122
1N3581B	563	1N3784A	563	1N4148V	1122	1N4406	563	1N4656	561	1N4817	1114	1N5220	1122
1N3582	563	1N3784B	563	1N4149	1122	1N4406A	563	1N4660	562	1N4818	1114	1N5230	565
1N3582A	563	1N3825	565	1N4150	1122	1N4406B	563	1N4663	563	1N4819	1144	1N5230A	565
1N3582B	563	1N3825A	565	1N4150V	1122	1N4408	564	1N4665	564	1N4820	1144	1N5230B	565
1N3583	563	1N3826	565	1N4151	1122	1N4408A	564	1N4688	565	1N4823	1104	1N5231	565
1N3583A	563	1N3826A	565	1N4152	1122	1N4408B	564	1N4689	565	1N4824	1104	1N5231A	565
1N3583B	563	1N3828	561	1N4153	1122	1N4444	1122	1N4691	561	1N4825	1104	1N5231B	565
1N3584	563	1N3828A	561	1N4154	1122	1N4446	1122	1N4695	562	1N4827	1122	1N5234	561
1N3584A	563	1N3855A	562	1N4156	1122	1N4447	1122	1N4696	562	1N4828	1122	1N5234A	561
1N3584B	563	1N3864	1122	1N4157	1122	1N4448	1122	1N4699	563	1N4829	1122	1N5234B	561
1N3592	1123	1N3865	1101	1N4161	562	1N4449	1122	1N4702	564	1N4830	1122	1N5238	562
1N3593	1122	1N3866	1143	1N4161A	562	1N4450	1122	1N4718	1101	1N4861	1122	1N5238-BRL	562
1N3594	1122	1N3867	1144	1N4161B	562	1N4451	1122	1N4719	1141	1N4862	1122	1N5238A	562
1N3595	1122	1N3872	1122	1N4164	563	1N4453	1122	1N4719R	1114	1N4863	1122	1N5238B	562
1N3596	1122	1N3873	1122	1N4164A	563	1N4454	1122	1N4720	1143	1N4864	1122	1N5239	562
1N3598	1122	1N3874	1101	1N4164B	563	1N4455	1122	1N4720R	1114	1N4933	1104	1N5239A	562
1N3599	1122	1N3875	1104	1N4166	564	1N4499	561	1N4721	1143	1N4933GP	1104	1N5239B	562
1N3600	1122	1N3894	1103	1N4166A	564	1N4502	1123	1N4721R	1143	1N4934	1104	1N5242	563
1N3601	1122	1N3895	1103	1N4166B	564	1N4512	1101	1N4722	1144	1N4934GP	1104	1N5242A	563
1N3602	1122	1N3914	1101	1N4242	1122	1N4517	1143	1N4722R	1114	1N4935	1104	1N5242B	563
1N3603	1122	1N3929	1114	1N4243	1122	1N4523	1123	1N4723R	1114	1N4935GP	1104	1N5245	564
1N3604	1122	1N3938	1143	1N4244	1122	1N4531	1122	1N4724R	1114	1N4936	1104	1N5245A	564
1N3605	1122	1N3939	1144	1N4245	1102	1N4532	1122	1N4725R	1114	1N4936GP	1104	1N5245B	564
1N3606	1122	1N3947	561	1N4245GP	1102	1N4533	1122	1N4726	1122	1N4937	1104	1N5282	1122
1N3607	1122	1N3952	1143	1N4246	1104	1N4534	1122	1N4727	1122	1N4937GP	1104	1N5315	1122
1N3608	1122	1N3953	1122	1N4246GP	1103	1N4536	1122	1N4732	565	1N4938	1122	1N5316	1122
1N3609	1122	1N3954	1122	1N4247	1104	1N4541	1103	1N4732A	565	1N4942	1104	1N5317	1122
1N3611	1102	1N3956	1122	1N4247GP	1104	1N4542	1103	1N4733	565	1N4942GP	1104	1N5318	1122
1N3611GP	1102	1N3957	1114	1N4248	1114	1N4545	1114	1N4735	561	1N4943	1114	1N5319	1122
1N3612	1103	1N3957GP	1114	1N4248GP	1114	1N4547	1122	1N4735A	561	1N4944	1104	1N5320	1122
1N3612GP	1103	1N3981	1143	1N4249	1114	1N4548	1122	1N4739	562	1N4944GP	1104	1N5324	561
1N3613	1104	1N3982	1144	1N4249GP	1114	1N4565	561	1N4739A	562	1N4946	1104	1N5324A	561
1N3613GP	1104	1N3991	1123	1N4250	1114	1N4565A	561	1N4742	563	1N4946GP	1104	1N5391	1141
1N3614	1114	1N4001	1101	1N4251	1114	1N4566	561	1N4742A	563	1N4949	1122	1N5391GP	1114
1N3614GP	1114	1N4001A	1101	1N4297	562	1N4566A	561	1N4744	564	1N4950	1122	1N5392	1114
1N3621	1122	1N4001G	1101	1N4297A	562	1N4567	561	1N4744A	564	1N4951	1122	1N5392G2	1143
1N3624	1122	1N4001GP	1101	1N4298	562	1N4567A	561	1N4765	562	1N4952	1122	1N5392GP	1114
1N3629	1104	1N4002	1104	1N4298A	562	1N4568	561	1N4765A	562	1N4997	1141	1N5393	1143
1N3630	1104	1N4002A	1104	1N4299B	563	1N4568A	561	1N4765B	562	1N4997R	1114	1N5393GP	1114
1N3631	1104	1N4002G	1104	1N4300B	563	1N4569	561	1N4766	562	1N4998	1143	1N5394	1144
1N3632	1104	1N4002GP	1104	1N4302	562	1N4569A	561	1N4766A	562	1N4998R	1114	1N5394GP	1114
1N3633	1104	1N4002L	1104	1N4302A	562	1N4570	561	1N4766B	562	1N4999	1143	1N5395	1144
1N3634	1104	1N4002TA	1104	1N4303B	563	1N4570A	561	1N4767	562	1N4999R	1114	1N5395GP	1114
1N3635	1114	1N4003	1102	1N4304B	563	1N4571	561	1N4767A	562	1N5000	1144	1N5396GP	1114
1N3636	1114	1N4003A	1102	1N4305	1122	1N4571A	561	1N4767B	562	1N5000R	1114	1N5397GP	1114
1N3637	1114	1N4003G	1102	1N4305F	1122	1N4572	561	1N4768	562	1N5001R	1114	1N5398GP	1114
1N3638	1114	1N4003GP	1102	1N4306	1122	1N4572A	561	1N4768A	562	1N5002R	1114	1N5399GP	1114
1N3639	1104	1N4003PX	1102	1N4307	1122	1N4573	561	1N4768B	562	1N5003R	1114	1N5400	1141
1N3640	1104	1N4003RL	1102	1N4308	1122	1N4573A	561	1N4769	562	1N5004	1143	1N5401	1143
1N3641	1104	1N4003TA	1102	1N4309	1122	1N4574	561	1N4769A	562	1N5005	1143	1N5402	1143
1N3642	1114	1N4004	1103	1N4311	1122	1N4574A	561	1N4769B	562	1N5006	1144	1N5403	1144
1N3643	1114	1N4004A	1103	1N4315	1122	1N4575	561	1N4770	562	1N5054	1114	1N5404	1144
1N3653	1122	1N4004G	1103	1N4318	1122	1N4575A	561	1N4770A	562	1N5055	1143	1N5413	1122
1N3654	1122	1N4004GP	1103	1N4322	1122	1N4576	561	1N4770B	562	1N5056	1143	1N5414	1122
1N3656	1143	1N4004TA	1103	1N4326	562	1N4576A	561	1N4771	562	1N5057	1144	1N5415	1101
1N3657	1144	1N4005	1104	1N4326A	562	1N4577	561	1N4771A	562	1N5058	1144	1N5420	1114
1N3666	1122	1N4005GP	1104	1N4326B	562	1N4577A	561	1N4771B	562	1N5059GP	1102	1N5426	1122
1N3668	1122	1N4006	1114	1N4329	563	1N4578	561	1N4772	562	1N5060GP	1103	1N5522	565
1N3669	1104	1N4006GP	1114	1N4329A	563	1N4578A	561	1N4772A	562	1N5061GP	1104	1N5522A	565
1N3678	562	1N4007	1114	1N4329B	563	1N4579	561	1N4772B	562	1N5062GP	1114	1N5522B	565
1N3678A	562	1N4007GP	1114	1N4331	564	1N4579A	561	1N4773	562	1N5170	1114	1N5523	565
1N3678B	562	1N4009	1122	1N4331A	564	1N4580	561	1N4773A	562	1N5171	1141	1N5523A	565
1N3681	563	1N4010	561	1N4331B	564	1N4580A	561	1N4773B	562	1N5172	1114	1N5523B	565
1N3681A	563	1N4011	1114	1N4361	1114	1N4581	561	1N4774	562	1N5173	1144	1N5525	561
1N3681B	563	1N4043	1122	1N4363	1122	1N4581A	561	1N4774A	562	1N5174	1144	1N5525A	561
1N3683	564	1N4087	1122	1N4364	1104	1N4582	561	1N4774B	562	1N5177	1114	1N5525B	561
1N3683A	564	1N4088	1123	1N4365	1171	1N4582A	561	1N4775	562	1N5178	1114	1N5529	562
1N3683B	564	1N4089	1144	1N4366	1171	1N4583	563	1N4775A	562	1N5179	1122	1N5529A	562
1N3722	1122	1N4092	1122	1N4367	1104	1N4583A	563	1N4776	562	1N5190GP	1114	1N5529B	562

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
1N5532	563	1N5855	562	1NZ61-B	1114	1R5JZ61-K	1114	1S50	1123	1S116	1104	1S208	1104
1N5532A	563	1N5855A	562	1NZ61-C	1114	1R5JZ61-L	1114	1S51	565	1S117	1114	1S209	1104
1N5532B	563	1N5855B	562	1NZ61-D	1114	1R5JZ61-OR	1114	1S55	562	1S118	1104	1S210	1114
1N5532C	563	1N5858	563	1NZ61-K	1114	1R5JZ61-V	1114	1S56	562	1S119	1104	1S210/2SJ6A	1114
1N5535	564	1N5858A	563	1NZ61-L	1114	1R5.1	565	1S58	1123	1S120	1104	1S211	1114
1N5535A	564	1N5858B	563	1NZ61-OR	1114	1R9	1104	1S60	1123	1S121	1104	1S211/2SJ8A	1114
1N5535B	564	1N5861	564	1NZ61-Y	1114	1R9D	1104	1S60(RECT)	1104	1S121(RECT)	1104	1S211A	1114
1N5550	1114	1N5861A	564	1P20-0006	2030	1R9H	1104	1S60P	1123	1S122	1104	1S212	562
1N5551	1114	1N5861B	564	1P20-0029	2016	1R9I	1104	1S61	1104	1S123	1104	1S213	562
1N5552	1114	1N5898	1141	1P20-0032	2009	1R9J	1104	1S62	1104	1S124	1104	1S214	562
1N5562	562	1N5899	1143	1P20-0034	2016	1R9L	1104	1S63	1104	1S125	1104	1S217	562
1N5562A	562	1N5900	1143	1P20-0036	2020	1R9P	1104	1S64	1104	1S126	1104	1S218	1122
1N5563B	562	1N5901	1144	1P20-0037	2016	1R9U	1104	1S65	1104	1S127	1123	1S224	562
1N5565	563	1N5992	565	1P20-0041	2009	1R9.1A	562	1S66	1104	1S128	1123	1S227	563
1N5565A	563	1N5992A	565	1P20-0046	2023	1R9.1B	562	1S71	1104	1S128FM	1123	1S230	564
1N5565B	563	1N5992B	565	1P20-0060	1123	1R10D3K	1122	1S72	1123	1S129	1123	1S268AA,T	1104
1N5567	564	1N5993	565	1P20-0061	1122	1R12	563	1S73	1123	1S130	1122	1S268T	1104
1N5567A	564	1N5993A	565	1P20-0083	2020	1R12A	563	1S73A	1123	1S131	1122	1S301.5	564
1N5567B	564	1N5995	561	1P20-0086	565	1R12B	563	1S74	1123	1S132	1122	1S304	562
1N5605	1122	1N5995A	561	1P20-0110	2016	1R15	564	1S75	1123	1S133	562	1S306	1122
1N5606	1122	1N5995B	561	1P20-0120	1104	1R15A	564	1S77	1123	1S134	565	1S306M	1122
1N5607	1122	1N5999	562	1P20-0122	2009	1R15B	564	1S77H	1123	1S136(RECT)	1104	1S307	1122
1N5608	1122	1N5999A	562	1P20-0159	2023	1R81	1104	1S78	1123	1S136Q	1103	1S309	1104
1N5609	1122	1N5999B	562	1P20-0213	2023	1R90	1104	1S78H	1123	1S138	562	1S310	1104
1N5610	1122	1N6002	563	1P20-0214	1617	1R96	1114	1S79	1123	1S138(RECT)	1114	1S310H	1104
1N5614	1104	1N6002A	563	1P60F	1123	1R106B1	1067	1S79H	1123	1S138(ZENER)	562	1S311H	1104
1N5614GP	1104	1N6002B	563	1P100	1067	1R106B1-C	1067	1S80	1123	1S139	562	1S311N	1104
1N5615	1104	1N6004	564	1P101	1067	1R106B2	1067	1S81	1104	1S141	563	1S312	1104
1N5615GP	1104	1N6004A	564	1P102	1067	1R106B3	1067	1S82	1123	1S142	564	1S312A	1104
1N5616	1104	1N6004B	564	1P103	1067	1R106B4	1067	1S83	1104	1S144	1122	1S312H	1104
1N5616GP	1104	1N6083	565	1P541	1123	1R106B41	1067	1S84	1122	1S147	1104	1S313	1104
1N5617	1104	1N6083A	565	1PS42	1123	1R106D1	1020	1S84H	1104	1S148	1104	1S313H	1104
1N5617GP	1104	1N6083B	565	1P643	1141	1R106D2	1020	1S85V	1104	1S149	1104	1S314	1104
1N5624	1143	1N6084	565	1P644	1143	1R106D3	1020	1S87	1123	1S150	1104	1S314H	1104
1N5624GP	1143	1N6084A	565	1P645	1144	1R106D4	1020	1S88	1123	1S155	1122	1S314N	1104
1N5625	1144	1N6084B	565	1P646	1144	1R106D41	1020	1S89	1122	1S155-1	1122	1S315	1104
1N5625GP	1144	1N6086	561	1P647	1144	1R914	1122	1S90	1104	1S180	1122	1S315FR1MD	1114
1N5679	1104	1N6086A	561	1R0	1122	1RC5	1067	1S90R	1122	1S180/5GB	1104	1S315H	1104
1N5680	1104	1N6086B	561	1R01	1104	1RC10	1067	1S91	1104	1S180-M	1104	1S316	1114
1N5711	1122	1N6090	562	1R0E	1114	1RC20	1067	1S91R	1104	1S180B	1122	1S317	1114
1N5713	1122	1N6090A	562	1R0F	1114	1RC30	1020	1S92	1104	1S181	1122	1S318	1123
1N5719	1122	1N6090B	562	1R0H	1104	1RC40	1020	1S92R	1104	1S181-M	1104	1S319	1123
1N5720	1122	1N33974	562	1R1D	1104	1RE10	1104	1S93	1104	1S181FA	1122	1S320	565
1N5721	1122	1N36001	1122	1R1K	1104	1ROE	1122	1S93/SGJ	1104	1S182	1122	1S322	1122
1N5726	1122	1N70980	1122	1R2	1122	1ROF	1104	1S93R	1104	1S182-M	1104	1S323	1123
1N5727	1122	1N601000-17	1123	1R2A	1104	1ROH	1104	1S94	1104	1S183	1104	1S324	1122
1N5728	565	1NA4	1123	1R2D	1104	1R-TR24	2016	1S94R	1104	1S183-M	1104	1S325	1122
1N5728B	565	1NA4G	1123	1R2E	1104	1R-TR25	2016	1S95	1104	1S184	1122	1S326	1122
1N5729	565	1NAG1	1123	1R3A	1122	1RTR51	2016	1S95R	1104	1S185	1123	1S327	1104
1N5729B	565	1NC61684	1104	1R3D	1104	1S005	1104	1S96	1114	1S186	1123	1S328	1104
1N5731	561	1NE11	1114	1R3G	1104	1S016	1104	1S96R	1114	1S186(FM)	1123	1S329	1114
1N5731B	561	1NE11-0R	1114	1R3J	1104	1S020	1143	1S97	1114	1S186FM	1123	1S330	565
1N5735B	562	1NE11-A	1114	1R5B	1104	1S021	1143	1S97R	1114	1S186G	1104	1S330A	565
1N5736B	563	1NE11-B	1114	1R5BZ61	1114	1S023	1144	1S98	1114	1S187	1123	1S-331	561
1N5738	563	1NE11-C	1114	1R5BZ61-A	1114	1S030	1141	1S98R	1114	1S187S	1123	1S331	561
1N5738B	563	1NE11-D	1114	1R5BZ61-B	1114	1S031	1143	1S99	1114	1S-188	1123	1S334	562
1N5740	564	1NE11-K	1114	1R5BZ61-C	1114	1S032	1143	1S99A	1104	1S188	1123	1S334M	562
1N5740B	564	1NE11-L	1114	1R5BZ61-D	1114	1S034	1144	1S99R	1104	1S188(AM)	1123	1S334N	562
1N5767	1122	1NE11-Y	1114	1R5BZ61-K	1114	1S054	1104	1S100	1104	1S188-FM	1123	1S337	563
1N5802	1122	1NE11A	1114	1R5BZ61-L	1114	1S058	1114	1S100R	1104	1S188A	1123	1S337-Y	563
1N5803	1122	1NE11B	1114	1R5BZ61-OR	1114	1S1Z09	1104	1S101	1104	1S188AM	1123	1S337A	563
1N5804	1122	1NE11C	1114	1R5BZ61-Y	1114	1S11	1123	1S101R	1104	1S188AR	1123	1S337E	563
1N5805	1122	1NE11D	1114	1R5DZ61	1143	1S12	1123	1S102	1104	1S188F	1123	1S337Y	563
1N5806	1122	1NE11K	1114	1R5DZ61-A	1114	1S13	1123	1S102R	1104	1S188FM	1123	1S347	561
1N5807	1122	1NE11L	1114	1R5DZ61-B	1114	1S14	1123	1S103	1104	1S188FM-1	1123	1S354	1123
1N5808	1122	1NE11R	1114	1R5DZ61-C	1114	1S15	1123	1S103R	1104	1S188FM1	1123	1S355	1123
1N5809	1122	1NE11Y	1114	1R5DZ61-D	1114	1S16	1123	1S104	1104	1S188FM1A	1123	1S356	1123
1N5810	1122	1NF11	1114	1R5DZ61-L	1114	1S17	1123	1S104R	1104	1S188FM-2	1123	1S357	1123
1N5811	1122	1NH61	1114	1R5DZ61-OR	1114	1S17D1	1123	1S105	1104	1S188FM2	1123	1S358	1104
1N5817	1101	1NJ27	1114	1R5DZ61-Y	1114	1S18	1123	1S105R	1104	1S188FMA	1123	1S358A	1104
1N5818	1101	1NJ33233	1123	1R5G	1114	1S19	1123	1S106	1104	1S188FMI	1123	1S358S	1104
1N5819	1101	1NJ60284	1123	1R5GZ61	1114	1S20	1123	1S106A	1104	1S188MPX	1123	1S359	1104
1N5820	1114	1NJ61224	1123	1R5GZ61-A	1114	1S32	1123	1S106R	1104	1S188P	1123	1S367	1104
1N5821	1114	1NJ61433	1122	1R5GZ61-B	1114	1S33	1123	1S107	1114	1S188S	1123	1S368	1104
1N5822	1114	1NJ61675	1123	1R5GZ61-C	1114	1S34	1123	1S107R	1114	1S108TV	1123	1S369	1104
1N5846	565	1NJ61676	1104	1R5GZ61-D	1114	1S34(TV)	1123	1S108	1114	1S188TV(MP)	1123	1S370	1104
1N5846A	565	1NJ61677	1122	1R5GZ61-K	1114	1S34S	1123	1S108R	1114	1S189	1123	1S371	1104
1N5846B	565	1NJ61725	1122	1R5GZ61-L	1114	1S35	1123	1S109	1114	1S189FM	1123	1S372	1104
1N5847	565	1NJ70973	1123	1R5GZ61-OR	1114	1S36	1104	1S109R	1114	1S189FM(MP)	1123	1S373	1104
1N5847A	565	1NJ70980	1122	1R5GZ61-Y	1114	1S37	561	1S110	1104	1S190	565	1S374	1104
1N5847B	565	1NJ70989	1123	1R5GZ61FA-1	1114	1S38	1122	1S110A	1104	1S194	562	1S375	1104
1N5850	561	1NJ71126	1101	1R5GZ61FA1	1114	1S39	1114	1S111	1104	1S197	563	1S376	1104
1N5850A	561	1NJ71185	1123	1R5H	1104	1S40	1143	1S112	1104	1S200	1123	1S377	1104
1N5850B	561	1NJ71186	1101	1R5JZ61-A	1114	1S42	1144	1S113	1104	1S204	1104	1S378	1104
1N5854	562	1NJ71224	1122	1R5JZ61-B	1114	1S43	1144	1S113A	1104	1S205	1104	1S379	1104
1N5854A	562	1NZ61	1114	1R5JZ61-C	1114	1S44	1104	1S114	1104	1S206	1104	1S380	1104
1N5854B	562	1NZ61-A	1114	1R5JZ61-D	1114	1S47	1104	1S115	1104	1S207	1104	1S381	1104

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
1S382	1104	1S755H	565	1S954(2)	1122	1S1219H	1122	1S1473	1122	1S1694A	1104	1S1850R	1104
1S390	1104	1S757A	562	1S955	1122	1S1220	1122	1S1474	1143	1S1695	1114	1S1851	1104
1S393	1104	1S758	562	1S956	1143	1S1221	1104	1S1475	1144	1S1695A	1104	1S1851R	1104
1S394	1104	1S758(H)	562	1S957	1144	1S1222	1104	1S1486	1104	1S1696	1104	1S1855	1122
1S395	1104	1S758GS	562	1S961	1122	1S1223	1114	1S1487	1104	1S1696A	1104	1S1881AM	1104
1S396	1104	1S758H	562	1S977	1122	1S1224	1104	1S1488	1143	1S1697	1104	1S1885	1102
1S397	1114	1S773	1122	1S978	1122	1S1225	1114	1S1489	1144	1S1698	1104	1S1885-3	1104
1S398	1114	1S773A	1122	1S981	1122	1S1225A	1114	1S1514	1122	1S1701	1122	1S1885A	1102
1S399	1104	1S774	1122	1S982	1122	1S1230	1104	1S1515	1122	1S1710	1122	1S1885FA	1102
1S400	1104	1S774A	1122	1S983	1122	1S1230H	1104	1S1516	1122	1S1711	1122	1S1886	1102
1S401	1114	1S775	1122	1S984	1122	1S1231	1104	1S1532	1122	1S1712	1122	1S1886A	1102
1S402	1114	1S775FA-1	1104	1S985	1122	1S1231H	1104	1S1546	1104	1S1712A	1122	1S1887	1103
1S404	1104	1S776	1122	1S986	1122	1S1232	1104	1S1547	1104	1S1713	1122	1S1887(AU)	1103
1S405	1114	1S776A	1122	1S987	1122	1S1232H	1104	1S1548	1104	1S1714	1122	1S1887(FA)	1103
1S406	1114	1S777	1104	1S988	1122	1S1232N	1104	1S1552	1122	1S1715	561	1S1887A	1103
1S426	1122	1S788	1123	1S990	1122	1S1233	1114	1S1553	1122	1S1717	562	1S1887A(FA-1)	1103
1S426G	1123	1S801	1122	1S990-AM	1122	1S1233H	1114	1S1553(TV)	1122	1S1717L	562	1S1887AFA	1104
1S426GFM	1123	1S802	1122	1S990A	1122	1S1233N	1114	1S1553V	1122	1S1718	562	1S1887AFA-1	1103
1S428	1123	1S803	1122	1S990AM	1123	1S1234	1114	1S1553V(TV)	1122	1S1720	1114	1S1887A-Z	1103
1S430	1141	1S804	1122	1S990S	564	1S1234H	1114	1S1554	1122	1S1720R	1114	1S1887FA	1104
1S431	1143	1S805	1122	1S994A	1122	1S1234N	1114	1S1554(TV)	1122	1S1723	1104	1S1887FA-1	1104
1S441	1123	1S806	1122	1S994S	565	1S1239	1123	1S1554V	1122	1S1724	1104	1S1888	1104
1S442	1123	1S807	1122	1S1001	1122	1S1244	1123	1S1555	1122	1S1724R	1104	1S1888V	1104
1S444	1122	1S808	1122	1S1004	1104	1S1245	1123	1S1555(TV)	1122	1S1725	1104	1S1891	1114
1S446	1123	1S811	1104	1S1005	1123	1S1246	1123	1S1555-1	1122	1S1725R	1104	1S1892	1114
1S446D	1123	1S812	1104	1S1006	1123	1S1255A	1114	1S1555-S	1122	1S1726	1104	1S1906	1104
1S447	1123	1S813	1114	1S1007	1123	1S1295	1122	1S-1555-Z	1122	1S1726R	1104	1S1914	1143
1S448	1123	1S814	1114	1S1007S	1123	1S1296	1122	1S1555FA-1	1122	1S1727	1104	1S1915	1143
1S449	1123	1S816	1104	1S1008	1123	1S1297	1171	1S1555FA1	1122	1S1727R	1104	1S1916	1144
1S451	1123	1S817	1104	1S1009	1123	1S1298	1104	1S1555TP	1122	1S1728	562	1S1921A	1104
1S452	1123	1S818	1114	1S1010	1123	1S1299	1104	1S-1555V	1122	1S1728R	1104	1S1921B	1104
1S453	1123	1S819	1114	1S1012	1104	1S1301	1122	1S1555V	1122	1S1729	1104	1S1921C	1104
1S454	1123	1S841	1104	1S1013	1104	1S1302	1122	1S1555V(TV)	1122	1S1729R	1104	1S1921D	1104
1S455	1123	1S842	1104	1S1014	1114	1S1303	1122	1S1555Z	1122	1S1730	1104	1S1921E	1104
1S456	1122	1S843	1104	1S1015	1114	1S1304	1122	1S1579	1122	1S1730R	1104	1S1921F	1104
1S457	1122	1S844	1104	1S1021	1104	1S1305	1122	1S1580	1122	1S1731	1114	1S1941	1104
1S458	1104	1S844N	1104	1S1022	1104	1S1314	1101	1S1585	1122	1S1731R	1114	1S1941B	1122
1S459	1104	1S845	1104	1S1023	1114	1S1316	1122	1S1586	1122	1S1732	1114	1S1941L	1101
1S460	1122	1S846	1104	1S1024	1114	1S1317	1122	1S1587	1122	1S1732R	1114	1S1942	1104
1S461	1122	1S846N	1104	1S1027	1104	1S1318	1104	1S1588	1122	1S1734	565	1S1943	1104
1S462	1122	1S847	1114	1S1028	1104	1S1319	1104	1S1588-FM	1123	1S1735	561	1S1944	1114
1S463	1143	1S848	1114	1S1029	1114	1S1320	1104	1S1588V	1122	1S1737	562	1S1948	1104
1S464	1122	1S848N	1114	1S1030	1114	1S1333	1104	1S1589	1122	1S1739	563	1S1949	1104
1S465	1122	1S849	1104	1S1039	1144	1S1341	1104	1S1597	1104	1S1740	564	1S1950	1104
1S467R	1123	1S849,R	1104	1S1043	1104	1S1342	1104	1S1598	1104	1S1766	565	1S1955	565
1S468	1122	1S849R	1104	1S1044	1104	1S1343	1104	1S1599	1104	1S1767	561	1S1956	561
1S472	562	1S850	1114	1S1045	1114	1S1344	1104	1S1600	1104	1S1769	562	1S1959	562
1S480	561	1S850N	1114	1S1046	1114	1S1345	1114	1S1601	1104	1S1772	564	1S1962	563
1S482	562	1S851	1123	1S1052	1122	1S1346	1104	1S1602	1104	1S1781	562	1S1964	564
1S500	1122	1S854	1144	1S-1053	1122	1S1347	1114	1S1604	1104	1S1782	562	1S1972	1122
1S501	1122	1S871	1104	1S1053	1122	1S1348	1114	1S1605	1114	1S1783	562	1S1972-M	1122
1S501M	1122	1S871A	1104	1S1061	1104	1S1359	1104	1S1608	1114	1S1796	1122	1S1973	1122
1S542	1123	1S871B	1114	1S1062	1104	1S1359A	1104	1S1621	1122	1S1801-02	1122	1S1973-M	1122
1S548	1122	1S871C	1114	1S1063	1104	1S1360	1104	1S1621-O	1122	1S1821	1114	1S1991	1143
1S552	1122	1S872	1104	1S1064	1104	1S1360A	1104	1S1621-R	1122	1S1821R	1114	1S2019	1114
1S557	1114	1S872A	1104	1S1065	1114	1S1361	1104	1S1621-Y	1122	1S1829	1114	1S2047	565
1S557H	1114	1S872B	1114	1S1066	1114	1S1361A	1104	1S1622	1104	1S1829A	1114	1S2047A	565
1S558	1104	1S872C	1114	1S1071	1114	1S1362	1114	1S1623	1104	1S1829B	1114	1S2051	565
1S559	1104	1S881	1104	1S1072	1143	1S1362A	1114	1S1624	1104	1S1829C	1114	1S2051A	565
1S560	1122	1S881A	1104	1S1073	1144	1S1363	1114	1S1625	1104	1S1829D	1114	1S2051B	565
1S560H	1122	1S881B	1114	1S1076	1114	1S1363A	1114	1S1664	1104	1S1829K	1114	1S2062	561
1S568	1122	1S881C	1114	1S1076TF1	1122	1S1365	1104	1S1666	1104	1S1829L	1114	1S2062A	561
1S588	1104	1S882	1104	1S1095	562	1S1365A	1104	1S1667	1104	1S1829Y	1114	1S2063	1114
1S589	1123	1S882A	1104	1S1096	1104	1S1366	1104	1S1668	1104	1S1830	1114	1S2067	562
1S593	1104	1S882B	1114	1S1121	1171	1S1366A	1104	1S1668F	1104	1S1830A	1114	1S2068	562
1S597	564	1S882C	1114	1S1123	1173	1S1367	1104	1S1669	1114	1S1830B	1114	1S2069	562
1S633	565	1S885	1104	1S1124	1173	1S1367A	1104	1S1670	1171	1S1830C	1114	1S2070	1122
1S634	565	1S887	1104	1S1146	1104	1S1368	1114	1S1672	1173	1S1830D	1114	1S2071	1122
1S635	561	1S920	1122	1S1147	1122	1S1368A	1114	1S1678	1104	1S1830K	1114	1S2071A	1122
1S661	1104	1S921	1122	1S1148	1122	1S1369	1114	1S1679	1104	1S1830L	1114	1S2072	1122
1S662	1114	1S921(RECT)	1143	1S1149	1122	1S1369A	1114	1S1680	1104	1S1830Y	1114	1S2074	1122
1S663	1114	1S922	1144	1S1161	565	1S1375	561	1S1681	1104	1S1834	1104	1S2074H	1122
1S685	1104	1S922(DIODE)	1122	1S1172	565	1S1375A	561	1S1682	1114	1S1835	1104	1S2075	1122
1S686	1114	1S922(RECT)	1144	1S1173	561	1S1377	562	1S1683	1114	1S1845	1104	1S2075K	1122
1S687	1114	1S923	1122	1S1175	562	1S1377A	562	1S1684	1104	1S1845A	1104	1S2076	1122
1S691	565	1S941	1122	1S1177	564	1S1390	561	1S1685	1104	1S1845B	1104	1S2076-27	1122
1S693	1122	1S942	1122	1S1201	561	1S1390A	561	1S1686	1104	1S1845C	1114	1S2076-TF1	1122
1S696	563	1S943	1104	1S1201(H)	561	1S1392	562	1S1687	1104	1S1845D	1114	1S2076-TFI	1122
1S697	564	1S946	1104	1S1207	1122	1S1392A	562	1S1688	1114	1S1846	1104	1S2076A	1122
1S731	1122	1S947	1104	1S1208	1122	1S1404	565	1S1689	1114	1S1846A	1104	1S2076A/-07-27	1122
1S744	1123	1S948	1104	1S1213	1122	1S1404R	565	1S1690	1123	1S1846B	1104	1S2076A-07	1122
1S745	1123	1S949	1114	1S1214	1122	1S1406	561	1S1690A	1104	1S1846C	1114	1S2076A-07-27	1122
1S746	1123	1S950	1114	1S1215	1122	1S1406R	561	1S1691	1104	1S1846D	1114	1S2076T	1122
1S747	1123	1S951	1122	1S1216	1122	1S1408	562	1S1691A	1104	1S1848	1104	1S2076TF1	1122
1S748	1123	1S952	1122	1S1217	1122	1S1408R	562	1S1692A	1104	1S1849	1104	1S2080	1104
1S755	565	1S953	1122	1S1218	1122	1S1420H	1122	1S1693	1104	1S1849R	1104	1S2081	1104
1S755(H)	565	1S954	1122	1S1219	1122	1S1471	1114	1S1693A	1104	1S1850	1104	1S2091	1122

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
1S2091-BK	1122	1S2357	1104	1S2550	562	1SD2	1104	1SR91-400	1114	1SS135	1122	1SZ26	561
1S2091-BL	1122	1S2358	1104	1S2553	563	1SD1212	1104	1SR96-200	1102	1SS136	1122	1SZ39	561
1S2091-W	1122	1S2359	1104	1S2588	1122	1SIZ09	1104	1SR96-400	1103	1SS137	1122	1SZ40-12	563
1S2091A	562	1S2361	1104	1S2589	1104	1SM1	1104	1SR96-600	1104	1SS138	1122	1SZ40-15	564
1S2091BK	1122	1S2362	1104	1S2590	1104	1S-M2511-80105035B		1SR97-800	1114	1SS139	1122	1SZ50	561
1S2091BL	1122	1S2363	1104	1S2591	1104		1122	1SR97-1000	1114	1SS140	1122	1SZ51	561
1S2091W	1122	1S2364	1114	1S2596	1143	1SO30	1104	1SR99-100	1104	1SS141	1122	1SZ52	561
1S2092	1122	1S2365	1114	1S2597	1122	1SO31	1104	1SR99-200	1102	1SS142	1104	1SZ53	561
1S2095	1122	1S2367	1104	1S2602	1104	1SO32	1104	1SR99-400	1103	1SS143	1104	1SZ55-C4V7	565
1S2095A	1122	1S2371	1171	1S2603	1104	1SO34	1104	1SR99A-100	1104	1SS144	1104	1SZ55-C5V1	565
1S2097	1122	1S2371A	1171	1S2604	1104	1SO36	1104	1SR99A-200	1102	1SS145	1104	1SZ55-C6V2	561
1S2098	1122	1S2372	1104	1S2605	1104	1SO38	1114	1SR99A-400	1103	1SS146	1104	1SZ55-C9V1	562
1S2099	1122	1S2373	1104	1S2606	1104	1SO58	1114	1SR100-200	1102	1SS147	1104	1SZ55-C12	563
1S2109	565	1S2373A	1173	1S2607	1114	1SR1FM4	1104	1SR100-400	1103	1SS148	1122	1SZ55-C15	564
1S2109A	565	1S2374	1104	1S2608	1114	1SR1K	1104	1SR100-600	1104	1SS149	1104	1SZ61	561
1S2112AFA-1	561	1S2375	1104	1S2609	1114	1SR11-100	1114	1SR100-800	1114	1SS150	1122	1SZ63	563
1S2116	562	1S2376	1104	1S2610	1114	1SR11-200	1104	1SR101-800	1114	1SS150(A)	1122	1T2C1	1104
1S2116A	562	1S2376A	1173	1S2618	1114	1SR11-400	1114	1SR112-800	1114	1SS152	1122	1T2Z1	1104
1S2119	563	1S2377	1114	1S2675	1104	1SR11-600	1104	1SR112-1000	1114	1SS152(A)	1122	1T6.2	561
1S2119A	563	1S2379	1144	1S2676	1104	1SR11-800	1114	1SR117-100	1114	1SS163	1122	1T6.2A	561
1S2120	563	1S2390	1104	1S2692AB	1122	1SR11-1000	1114	1SR117-200	1114	1SS164	1122	1T6.2B	561
1S2120A	563	1S2391	1104	1S2757	1104	1SR12-50	1114	1SR117-400	1114	1SS168(A)	1122	1T9.1	562
1S2121	564	1S2392	1104	1S2760	1141	1SR12-100	1114	1SR117-600	1114	1SS169	1122	1T9.1A	562
1S2121A	564	1S2393	1104	1S2761	1143	1SR12-200	1104	1SR117-800	1114	1SS170	1122	1T9.1B	562
1S2124	1104	1S2394	1104	1S2762	1143	1SR12-400	1114	1SR119-100	1104	1SS171	1122	1T11.5A	563
1S2126	562	1S2395	1104	1S2763	1144	1SR12-600	1104	1SR119-200	1102	1SS172	1104	1T12	563
1S2127	563	1S2396	1104	1S2764	1144	1SR12-800	2023	1SR119-400	1103	1SS173A	1122	1T12A	563
1S2128	561	1S2397	1114	1S2768A	1114	1SR12-1000	1114	1SR124-50	1101	1SS175	1122	1T12B	563
1S2129	562	1S2398	1114	1S2769	561	1SR13-50	1114	1SR124-50A	1101	1SS175A	1122	1T15	564
1S2130	563	1S2399	1114	1S2770	561	1SR13-100	1114	1SR124-100	1104	1SS176	1122	1T15B	564
1S2134	1122	1S2400	1114	1S2771	561	1SR13-200	1104	1SR124-100A	1104	1SS176FA	1122	1T19-15B	564
1S2135	1122	1S2401	1104	1S2774	561	1SR13-400	1114	1SR124-200	1104	1SS177	1122	1T22	1123
1S2137	562	1S2402	1104	1S2775FA1	1104	1SR13-600	1104	1SR124-200A	1104	1SS178	1122	1T22(A)	1123
1S2138	563	1S2403	1114	1S2776	1114	1SR13-800	2023	1SR124-400	1104	1SS178FA	1122	1T22A	1123
1S2140	1104	1S2404	1104	1S2777	1104	1SR13-1000	1114	1SR124-400A	1104	1SS181	1122	1T22AJ	1123
1S2144	1122	1S2405	1114	1S2779	1144	1SR14-50	1114	1SR138	1122	1SS184	1122	1T22AM	1123
1S2144A	1122	1S2406	1114	1S2787	1122	1SR14-100	1114	1SS19	1122	1SS187	1122	1T22B	1123
1S-2144Z	1122	1S2408	1141	1S2788	1122	1SR14-200	1104	1SS24	1122	1SS190	1122	1T22G	1123
1S2144Z	1122	1S2409	1114	1S2788B	1122	1SR14-400	1114	1SS25	1122	1SS193	1122	1T23	1123
1S2145	1122	1S2410	1143	1S2827A	1143	1SR15-50	1141	1SS26	1122	1SS196	1122	1T23A	1123
1S2150	564	1S2411	1144	1S2828A	1144	1SR15-100	1143	1SS27	1122	1SS200	1122	1T23B	1123
1S2150A	564	1S2412	1144	1S2832	1104	1SR15-200	1143	1SS28	1122	1SS201	1122	1T23G	1123
1S2195	562	1S2415	1141	1S2833	2023	1SR15-400	1144	1SS29	1122	1SS202	1122	1T23J	1123
1S2196	563	1S2416	1143	1S3009	562	1SR16-50	1141	1SS30	1122	1SS203	1122	1T23M	1123
1S2204	1122	1S2417	1143	1S3012	563	1SR16-100	1143	1SS31	1122	1SS204	1122	1T23S	1123
1S2212	1122	1S2418	1144	1S3016	564	1SR16-200	1143	1SS41	1122	1SS205	1122	1T26	1123
1S2226	1104	1S2419	1144	1S3016(RECT)	1104	1SR16-400	1144	1SS49	1122	1SS206	1122	1T26-2	1123
1S2227	1104	1S2452	561	1S3016R	1104	1SR17-50	1141	1SS50	1122	1SS207	1122	1T40	1122
1S2228	1104	1S2453	561	1S3195	1104	1SR17-100	1143	1SS51	1122	1SS208	1122	1T188	1123
1S2229	1104	1S2454	561	1S3305	565	1SR17-200	1143	1SS-53	1122	1SS209	1122	1T213	1123
1S2230	1104	1S2455	1143	1S3585	1123	1SR17-400	1144	1SS53	1122	1SS210	1122	1T220	2035
1S2231	1114	1S2456	1143	1S4266	1123	1SR30-200	1104	1SS54	1122	1SS211	1122	1T229-2	1104
1S2238	1114	1S2457	1144	1S4266FM	1123	1SR30-400	1114	1SS54-T4	1122	1SS212	1122	1T231	1123
1S2239	1114	1S2460	1122	1S4736	565	1SR30-600	1104	1SS55	1122	1SS213	1122	1T236	1123
1S2240	1114	1S2461	1122	1S5277B	1104	1SR31-800	2023	1SS68	1122	1SS214	1122	1T240	1123
1S2241	1114	1S2461V-Y	1122	1S5295G	1104	1SR31-1000	1114	1SS81	1122	1SS215	1122	1T240A	1123
1S2242	1114	1S2462	1122	1S5295J	1104	1SR34	1122	1SS-82	1104	1SS217	1122	1T243	1122
1S2243	1114	1S2463	1104	1S5454	1123	1SR35	1122	1SS82	1104	1SS218	1122	1T243M	562
1S2244	1104	1S2471	1122	1S7047	565	1SR35-50	1101	1SS83	1122	1SS219	1122	1T261	1123
1S2245	1104	1S2471A	1122	1S7047A	565	1SR35-50A	1101	1SS84	1122	1SS220	1122	1T262	1123
1S2246	1104	1S2471TA	1122	1S7047B	565	1SR-35-100	1104	1SS92	1122	1SS221	1122	1T378	1104
1S2269	1104	1S-2472	1122	1S7051	565	1SR35-100	1104	1SS93	1122	1SS222	1122	1T501	1104
1S2271	1104	1S2472	1122	1S7051A	565	1SR35-100-Z	1104	1SS94	1122	1SS223	1122	1T502	1104
1S2272	1104	1S2473	1122	1S7051B	565	1SR35-100A	1104	1SS95	1122	1SS226	1122	1T503	1104
1S2273	1114	1S2473*7A	1122 N8	1S7062	561	1SR35-200	1102	1SS102	1122	1SS227	1122 N3	1T504	1104
1S2274	1114	1S2473*7K	1122 N8	1S7062A	561	1SR35-200A	1102	1SS104	1122	1SS229	1122 N2	1T505	1104
1S2275FA-1	1104	1S2473-K	1122	1S7062B	561	1SR-35-400	1103	1SS109	1122	1SS230	1122 N2	1T506	1104
1S2276	1122	1S2473-T72	1122	1S7091	562	1SR35-400	1103	1SS110	1122	1SS231	1122 N1	1T507	1114
1S2277	1104	1S2473H	1122	1S7091A	562	1SR35-400A	1103	1SS110FQ	1122	1SS232	1122 N1	1T508	1114
1S2278	1104	1S2473HC	1122	1S7091B	562	1SR55-50	1114	1SS110T	1122	1SS233	1122 N2	1T509	1114
1S2279	1104	1S2473H-Y	1122	1S7120	563	1SR55-100	1114	1SS110Y	1122	1SS234	1122 N2	1T510	1114
1S2304	565	1S2473I	1122	1S7120A	563	1SR55-200	1104	1SS117	1122	1SS235	1122 N1	1T929	2009
1S2310	1104	1S2473K	1122	1S7120B	563	1SR68	1114	1SS118	1122	1SS236	1122 N1	1T930	2009
1S2311	1114	1S2473T	1122	1S7150	564	1SR69	1104	1SS119	1122	1SS240	1122	1T1331	1123
1S2312	1114	1S2473TA	1122	1S7150A	564	1SR70-100	1171	1SS119-041T	1122	1SS243	1122	1T2011	1104
1S2313	1104	1S2473VE	1122	1S7150B	564	1SR70-400	1173	1SS119-14	1122	1SS250	1122	1T2012	1104
1S2314	1114	1S2479	1123	1S9413	1104	1SR77-200	1104	1SS119-14FQ	1122	1SS251	1104	1T2013	1104
1S2315	1114	1S2486	565	1S9908	1123	1SR77-400	1114	1SS120	1122	1SS252	1122	1T2014	1104
1S2316	1104	1S2486R	565	1S15188	1122	1SR77-600	1104	1SS121	1122	1SS253	1122	1T2015	1104
1S2317	1104	1S2487	565	1S19413	1104	1SR77-800	1114	1SS122	1104	1SS254	1122	1T2016	1104
1S2348	1122	1S2489	561	1S19413T	1104	1SR77-1000	1114	1SS123	1122	1SS267	1104	1T20105	1104
1S2350	1144	1S2493	562	1S21447	1122	1SR78-200	1104	1SS130	1122	1SS270	1122	1TA6.2	561
1S2351	1104	1S2496	563	1SB01-02	1104	1SR78-400	1114	1SS131	1122	1SS270A	1122	1TA6.2A	561
1S2352	1104	1S2543	565	1SC683	2016	1SR79-800	2023	1SS132	1122	1SS272	1122	1TA6.2B	561
1S2353	1114	1S2543R	565	1SC929	2016	1SR79-1000	1114	1SS133	1122	1SS273	1122	1TA9.1	562
1S2354	1114	1S2546	561	1SC2367	1122	1SR91-100	1114	1SS133-Y	1122	1SV34	1122	1TA9.1A	562
1S2356	1104	1S2547	561	1SD-2	1104	1SR91-200	1114	1SS134	1122	1SV3[illegible]	1122	1TA12	563

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
1TA12A	563	1Z15D5	564	2A21	565	2E8DM	1114 N1	2N343	2030	2N709A	2016	2N835/51	1617
1TA15	564	1Z15D10	564	2A21(ZENER)	565	2E10	1114	2N343A	2030	2N711/46	2016	2N839	1617
1TA134	564	1Z15D20	564	2A22	565	2E10DM	1114 N1	2N385/46	2009	2N715	1617	2N840	1617
1T806	1104	1Z15T5	564	2A22(ZENER)	565	2E12DM	1114 N1	2N422/A	2035	2N716	2009	2N841	1617
1T905	1104	1Z15T10	564	2A30	1114	2E16DM	1114 N1	2N431	1617	2N717	1617	2N841/46	1617
1TV24237	1101	1Z15T20	564	2A50	1122	2E20DM	1114 N1	2N432	1617	2N717A	2016	2N841/KVT	1617
1TWC8H	562	1Z91.1D10	562	2A100	1114	2EM03	1114	2N433	1617	2N718	1617	2N842	1617
1TWC8L	562	1Z91.D10	562	2A119	1123	2EM05	1114	2N470	1617	2N718A	1617	2N843	1617
1TWC8M	562	1ZB12	563	2A200	1114	2EM015	1114	2N471	1617	2N721	2023	2N844	1617
1U585F	1617	1ZB12B	563	2A400	1114	2EM6	1114	2N471A	1617	2N721A	2023	2N845	2030
1V3074A20	1104	1ZB15	564	2A500	1114	2EM8	1114	2N472	1617	2N721AB	2023	2N849	2016
1V3074A21	1104	1ZB15B	564	2A600	1114	2EM10	1114	2N472A	1617	2N722	2023	2N850	2016
1V7002	1133	1ZC5.1	565	2A800	1114	2F05	1141	2N473	1617	2N722A	2023	2N851	2016
1V68611A47	2023	1ZC6.2	561	2A1000	1114	2F2CN1	1114	2N474	1617	2N722AB	2023	2N852	2016
1V68611A47A	2023	1ZC9.1	562	2AA112	1123	2F2CN5	1114	2N474A	1617	2N728	1617	2N858	2023
1VA10	1104	1ZC9.1T5	562	2AA113	1123	2F4	1104	2N475	1617	2N729	1617	2N858C	2023
1W1706	2035	1ZC9.1T10	562	2AA116	1123	2F5CN1	1114	2N475A	1617	2N730	2030	2N859	2023
1W9640	2023	1ZC12	563	2AA119	1123	2F6	1114	2N476	1617	2N731	2030	2N859D	2023
1W9640A	2023	1ZC12T5	563	2AA119(MP)	1123	2F8	1114	2N476A	2016	2N734	2030	2N860	2023
1W9728	2023	1ZC12T10	563	2AG	2016	2F10	1114	2N477	1617	2N734A	2030	2N860A	2023
1W9728A	2023	1ZC12T20	563	2AH	2016	2FB050	1171	2N478	1617	2N735	2030	2N861	2023
1W9782	2023	1ZC15	564	2AM-1	1067	2FB100	1171	2N479	1617	2N735A	2030	2N861A	2023
1W9782A	2023	1ZC15T5	564	2B2DM	1171	2G8	1104	2N479A	1617	2N736	2030	2N862	2023
1W9787	1617	1ZC15T10	564	2B2M	1171	2G13	1104	2N480	1617	2N736A	2030	2N862A	2023
1W9810	2023	1ZD12	563	2B2MS	1171	2G805	1104	2N480A	1617	2N736B	2030	2N863	2023
1W9810A	2023	1ZF5.1T5	565	2B6DM	1173	2GA	1104	2N480B	2030	2N739	2030	2N863A	2023
1W9810S	2023	1ZF5.1T10	565	2B6M	1173	2GG2C41	1114 N2	2N497	2030	2N739A	2030	2N864	2023
1W9810SA	2023	1ZF5.1T20	565	2B6MS	1173	2GG2Z41	1114 N1	2N497A	2030	2N740	2030	2N866	1617
1W11700	2023	1ZF9.1T5	562	2B8DM	1173	2H1254	2023	2N498	2030	2N740A	2030	2N867	1617
1W11700A	2023	1ZF9.1T10	562	2B8M	1173	2H1255	2023	2N541	1617	2N742	1617	2N870	2030
1W11702	2023	1ZF9.1T20	562	2B8MS	1173	2H1258	2023	2N541A	2016	2N742A	1617	2N871	2030
1W11702A	2023	1ZF12T5	563	2BG2C41	1114 N2	2H1259	2023	2N542	2030	2N743	1617	2N876	1067
1W11706	2035	1ZF12T10	563	2BG2Z41	1114 N1	2HR3J	1114	2N542A	1617	2N744	1617	2N877	1067
1W11708-1	1617	1ZF12T20	563	2C05	1114	2HR3M	1114	2N543	1617	2N745	1617	2N878	1067
1W11708-2	1617	1ZF15T5	564	2C2DM	1114 N2	2ISD235-R	2020	2N543A	1617	2N746	1617	2N879	1067
1W11711	2023	1ZF15T10	564	2C2M	1114 N2	2J8138	1104	2N545	2030	2N747	1617	2N880	1067
1W11711A	2023	1ZF15T20	564	2C4DM	1114 N2	2JG2C41	1114 N2	2N546	1617	2N748	1617	2N881	1067
1WB-5A	565	1ZM4.7T5	565	2C4M	1114 N2	2JG2Z41	1114 N1	2N547	2030	2N749	1617	2N885	1067
1WB-9D	562	1ZM4.7T10	565	2C6	1114	2K02	1114	2N548	1617	2N752	2030	2N885A	1067
1WB-15D	564	1ZM4.7T20	565	2C6DM	1114 N2	2K19H	2035	2N549	2030	2N753	1617	2N888A	1067
1WM6	1104	1ZM5.1T5	565	2C6M	1114 N2	2KBP005	1171	2N550	1617	2N753/46	2009	2N902	2016
1WS1	1114	1ZM5.1T10	565	2C8	1114	2KBP01	1171	2N551	1617	2N754	1617	2N903	2016
1WS2	1114	1ZM5.1T20	565	2C8DM	1114 N2	2KBP04	1173	2N552	1617	2N755	2030	2N904	2016
1WS4	1144	1ZM6.2T5	561	2C8M	1114 N2	2M214	562	2N560	2030	2N756	1617	2N905	2016
1WS6	1114	1ZM6.2T10	561	2C10	1114	2M6219	2016	2N619	1617	2N756A	1617	2N906	2009
1WS10	1114	1ZM6.2T20	561	2C10DM	1114 N2	2MN6374	2016	2N620	1617	2N757	1617	2N908	2030
1X9179	1122	1ZM9.1T5	562	2C10M	1114 N2	2MW665	1123	2N621	1617	2N757A	1617	2N909	1617
1X9805	1122	1ZM9.1T10	562	2C12DM	1114 N2	2N2J324	2030	2N622	1617	2N757B	2009	2N910	2030
1X9809	1122	1ZM9.1T20	562	2C12M	1114 N2	2N117	2009	2N655A	2030	2N758	1617	2N911	2030
1Z4.7	565	1ZM12T5	563	2C16DM	1114 N2	2N118	2009	2N656	2030	2N758A	1617	2N912	2030
1Z4.7A	565	1ZM12T10	563	2C16M	1114 N2	2N118A	2009	2N656A	2030	2N758B	1617	2N913	1617
1Z4.7B	565	1ZM12T20	563	2C20DM	1114 N2	2N119	2009	2N6565	2030	2N759	1617	2N914	1617
1Z5.1	565	1ZM15T5	564	2C20M	1114 N2	2N120	2009	2N657	2030	2N759A	1617	2N914/46	1617
1Z5.1A	565	1ZM15T10	564	2CS537FC	2016	2N160	2009	2N657S	2030	2N759B	1617	2N914/51	2016
1Z5.1B	565	1ZM15T20	564	2CY38	2023	2N160A	2009	2N696	1617	2N760	1617	2N914A	1617
1Z5.1T5	565	1ZT12	563	2CY39	2023	2N161	2009	2N696A	2030	2N760A	1617	2N915	1617
1Z6.2	561	1ZT12B	563	2D002	2009	2N161A	2009	2N696S	2030	2N760B	1617	2N915A	1617
1Z6.2A	561	1ZT15	564	2D002-41	2009	2N162	2009	2N697	2030	2N761	1617	2N916	1617
1Z6.2B	561	1ZT15B	564	2D002-168	1617	2N162A	2016	2N697A	2030	2N762	1617	2N916A	1617
1Z6.2T5	561	1.000.111.00	2023	2D002-169	1617	2N163	2009	2N699	2030	2N770	1617	2N916B	1617
1Z6.2T20	561	1.5B05	1114	2D002-170	2009	2N163A	2009	2N699A	2030	2N771	1617	2N917	2016
1Z9.1	562	1.5C05	1114	2D002-175	2009	2N263	2009	2N699A,B	2030	2N772	1617	2N917/46	2058
1Z9.1A	562	1.5E05	1141	2D010	2041	2N264	2009	2N699B	2030	2N773	1617	2N917/51	2016
1Z9.1B	562	1.5E1	1143	2D017-165	2023	2N332	1617	2N701	1617	2N774	1617	2N917A	2016
1Z9.1C	562	1.5E2	1143	2D017-166	2023	2N332A	1617	2N702	1617	2N775	1617	2N918	2016
1Z9.1D	562	1.5E3	1114	2D017-167	2023	2N333	1617	2N703	1617	2N776	1617	2N918/46	2016
1Z9.1D5	562	1.5E4	1144	2D017-169	2023	2N333A	1617	2N706	1617	2N777	1617	2N918/51	2016
1Z9.1D10	562	1.5E7	1114	2D026	2009	2N334	1617	2N706/46	1617	2N778	1617	2N919	1617
1Z9.1D15	562	1.5E8	1114	2D026-274	2009	2N334A	1617	2N706/51	1617	2N780	1617	2N920	1617
1Z9.1T5	562	1.5E10	1114	2D027	2023	2N334B	1617	2N706/TNT	1617	2N783	1617	2N921	1617
1Z9.1T10	562	1.5J05	1141	2D031	2062	2N335	1617	2N706A	1617	2N784	1617	2N922	1617
1Z9.1T20	562	1.5J1	1143	2D033	2009	2N335A	1617	2N706A/46	1617	2N784/51	1617	2N923	2023
1Z12	563	1.5J2	1143	2D41	1067	2N335B	1617	2N706A/51	1617	2N784A	1617	2N923A	2023
1Z12A	563	1.5J3	1144	2D84A	1173	2N336	1617	2N706A/TNT	1617	2N784A/46	1617	2N924	2023
1Z12B	563	1.5J4	1144	2DG2	1123	2N336A	1617	2N706B	1617	2N784A/51	1617	2N924A	2023
1Z12C	563	1.5J7	1114	2DG2C41	1114 N2	2N337	1617	2N706B/46	1617	2N784A46	2009	2N925	2023
1Z12D	563	1.5J8	1114	2DG2Z41	1114 N1	2N337A	1617	2N706B/51	1617	2N789	1617	2N925A	2023
1Z12D5	563	1.5J10	1114	2DO33	2009	2N338	1617	2N706C	1617	2N790	1617	2N926	2023
1Z12D10	563	2(3395	2009	2E05	1104	2N338A	1617	2N706M-JAN	1617	2N791	1617	2N926A	2023
1Z12T5	563	2-00045-345	2009	2E1	1104	2N339	2030	2N707A	1617	2N792	1617	2N927	2023
1Z12T10	563	2-00045-424	2009	2E2	1114	2N339A	2030	2N708	1617	2N793	1617	2N927A	2023
1Z12T20	563	2-0A90	1123	2E2DM	1114 N1	2N339O-U29	2009	2N708/46	1617	2N834	1617	2N928	2023
1Z15	564	2-55R3	2009	2E4	1104	2N340	2030	2N708/51	1617	2N834/46	1617	2N928A	2023
1Z15A	564	2-D2K	1104	2E4DM	1114 N1	2N340A	2030	2N708/TNT	1617	2N834/51	1617	2N929	1617
1Z15B	564	2-D2L	1104	2E6	1114	2N342	2030	2N708A	1617	2N834A	1617	2N929/46	1617
1Z15C	564	2-D2R	1104	2E6DM	1114 N1	2N342A	2030	2N709	2016	2N835	1617	2N929A	1617
1Z15D	564	2-0A95	1122	2E8	1114	2N342B	2030	2N709/52	2016	2N835/46	1617	2N930	1617

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
2N930/46	1617	2N1132A	2023	2N1487	2041	2N1920	2023	2N2185	2023	2N2315	1617	2N2501	1617
2N930/KVT	1617	2N1132A/46	2023	2N1488	2041	2N1921	2023	2N2186	2023	2N2317	2030	2N2510	2030
2N930/TNT	1617	2N1132A/51	2023	2N1489	2041	2N1923	2030	2N2187	2023	2N2318	1617	2N2511	2030
2N930A	1617	2N1132A46	2023	2N1491	2030	2N1929	1067	2N2192	2030	2N2319	1617	2N2514	1617
2N930A/46	1617	2N1132AC	2023	2N1492	2030	2N1941	2030	2N2192A	2030	2N2320	1617	2N2515	1617
2N930B	1617	2N1132B	2023	2N1505	1617	2N1943	2030	2N2192B	2030	2N2322	1067	2N2516	2030
2N935	2023	2N1132B/46	2023	2N1506	1617	2N1944	1617	2N2193	2030	2N2323	1067	2N2523	1617
2N935A	2023	2N1132B/51	2023	2N1506A	1617	2N1945	1617	2N2193A	2030	2N2324	1067	2N2524	1617
2N936	2023	2N1132B46	2023	2N1507	2030	2N1946	1617	2N2193AS	2030	2N2325	1067	2N2529	1617
2N936A	2023	2N1135	2023	2N1508	2030	2N1947	1617	2N2193B	2030	2N2326	1067	2N2530	1617
2N937	2023	2N1135A	2023	2N1509	2030	2N1948	1617	2N2194	2030	2N2327	1020	2N2531	1617
2N937A	2023	2N1139	1617	2N1528	1617	2N1949	1617	2N2194A	2030	2N2328	1020	2N2532	1617
2N938	2023	2N1140	1617	2N1564	2030	2N1950	1617	2N2194B	2030	2N2329	1020	2N2533	1617
2N938A	2023	2N1149	2009	2N1565	2030	2N1951	1617	2N2195	2030	2N2330	1617	2N2534	1617
2N939	2023	2N1150	2009	2N1566	2030	2N1952	1617	2N2195A	2030	2N2331	1617	2N2537	2030
2N939A	2023	2N1150/904	2009	2N1566A	2030	2N1953	2030	2N2195B	2030	2N2331S	1617	2N2538	2030
2N940	2023	2N1151	2009	2N1586	2016	2N1958	2030	2N2197	2016	2N2332	2023	2N2539	1617
2N940A	2023	2N1151/904A	2009	2N1587	2009	2N1958/18	2030	2N2198	2030	2N2333	2023	2N2540	1617
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2N941A	2023	2N1153	2009	2N1589	2016	2N1958A/51	2030	2N2206	1617	2N2335	2023	2N2570	1617
2N942	2023	2N1153/910	2009	2N1590	2009	2N1959	2030	2N2214	1617	2N2336	2023	2N2571	1617
2N943	2023	2N1156	2030	2N1591	2009	2N1959/18	2030	2N2217	2030	2N2337	2023	2N2572	1617
2N943A	2023	2N1156/953	2030	2N1592	2016	2N1959A	2030	2N2217/51	2009	2N2339	2020	2N2586	1617
2N944	2023	2N1196	2023	2N1593	2009	2N1959A/51	2030	2N2218	2030	2N2342	2035	2N2594	2030
2N944A	2023	2N1199	1617	2N1594	2009	2N1962	1617	2N2218/51	2009	2N2343	2035	2N2595	2023
2N945	2023	2N1199A	1617	2N1595	1067	2N1962/46	1617	2N2218/TNT	2009	2N2349	1617	2N2596	2023
2N945A	2023	2N1200	1617	2N1595A	1067	2N1963	1617	2N2218A	2030	2N2350	2030	2N2597	2023
2N946	2023	2N1201	1617	2N1596	1067	2N1963/46	1617	2N2218AS	1617	2N2350A	2030	2N2600A	2023
2N946A	2023	2N1205	1617	2N1596A	1067	2N1964	1617	2N2218S	1617	2N2351	2030	2N2601	2023
2N947	1617	2N1219	2023	2N1597	1067	2N1964/46	1617	2N2219	2030	2N2351A	2030	2N2602	2023
2N951	2009	2N1220	2023	2N1597A	1067	2N1965	1617	2N2219/51	2009	2N2352	2030	2N2603	2023
2N956	1617	2N1221	2023	2N1598	1020	2N1965/46	1617	2N2219/TNT	2009	2N2352A	2030	2N2604	2023
2N957	1617	2N1222	2023	2N1598A	1020	2N1972	2030	2N2219A	2030	2N2353	2030	2N2605	2023
2N958	2009	2N1223	2023	2N1599	1020	2N1973	2030	2N2219AS	1617	2N2353A	2030	2N2605A	2023
2N959	2009	2N1247	1617	2N1599A	1020	2N1974	2030	2N2219S	1617	2N2358	1617	2N2610	2016
2N981	2030	2N1248	1617	2N1603	1020	2N1975	1617	2N2220	1617	2N2369	1617	2N2615	2016
2N988	1617	2N1249	1617	2N1607	2023	2N1983	2030	2N2220A	1617	2N2369/46	1617	2N2616	2016
2N989	1617	2N1252	1617	2N1608	2023	2N1984	2030	2N2221	1617	2N2370	2023	2N2617	2009
2N1005	2016	2N1252A	1617	2N1613	2030	2N1985	2030	2N2221A	1617	2N2371	2023	2N2618/46	2009
2N1006	1617	2N1253	1617	2N1613/46	1617	2N1986	2030	2N2222	1617	2N2372	2023	2N2645	1617
2N1025	2023	2N1253A	1617	2N1613A	1617	2N1987	2030	2N2222A	1617	2N2373	2023	2N2651	1617
2N1025A	2023	2N1256	2023	2N1613B	1617	2N1988	2030	2N2224	1617	2N2377	2023	2N2655	2016
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2SA467L	2023	2SA493	2023	2SA495O	2023	2SA522K	2023	2SA550C	2023	2SA564(P)	2023	2SA567B	2023
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2SA467OR	2023	2SA493-O	2023	2SA495OR	2023	2SA522M	2023	2SA550P	2023	2SA564(R)	2023	2SA567D	2023
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2SA473-R	2027	2SA493G-GR	2023	2SA495X	2023	2SA530B	2023	2SA556	2023	2SA564-P	2023	2SA567L	2023
2SA473-Y	2027	2SA493GN	2023	2SA495Y	2023	2SA530C	2023	2SA558	2023	2SA564-Q	2023	2SA567M	2023
2SA473B	2027	2SA493G-Y	2023	2SA495YEL	2023	2SA530D	2023	2SA559	2023	2SA564-Q.R	2023	2SA567OR	2023
2SA473D	2027	2SA493H	2023	2SA495YEL-G	2023	2SA530E	2023	2SA559A	2023	2SA564-R	2023	2SA567R	2023
2SA473GR	2027	2SA493J	2023	2SA495YL	2023	2SA530F	2023	2SA561	2023	2SA564A	2023	2SA567X	2023
2SA473R	2027	2SA493K	2023	2SA502	2023	2SA530G	2023	2SA561(O)	2023	2SA564A(P)	2023	2SA567Y	2023
2SA473Y	2027	2SA493L	2023	2SA502-O	2023	2SA530GN	2023	2SA561-0	2023	2SA564A(Q)	2023	2SA568	2023
2SA480	2023	2SA493M	2023	2SA502-OR	2023	2SA530GR	2023	2SA561-GR	2023	2SA564A(R)	2023	2SA568-OR	2023
2SA480-OR	2023	2SA493OR	2023	2SA502-R	2023	2SA530H	2023	2SA561-GRN	2023	2SA564A(S)	2023	2SA568A	2023
2SA480A	2023	2SA493R	2023	2SA502-Y	2023	2SA530H1	2023	2SA561-O	2023	2SA564A2	2023	2SA568B	2023
2SA480B	2023	2SA493X	2023	2SA502A	2023	2SA530HA	2023	2SA561-OR	2023	2SA564ABQ-1	2023	2SA568C	2023
2SA480C	2023	2SA493Y	2023	2SA502B	2023	2SA530HB	2023	2SA561-ORG	2023	2SA564AG	2023	2SA568D	2023
2SA480D	2023	2SA494	2023	2SA502C	2023	2SA530HC	2023	2SA561-R	2023	2SA564AK	2023	2SA568E	2023
2SA480E	2023	2SA494(Y)	2023	2SA502D	2023	2SA530J	2023	2SA561-RD	2023	2SA564AL	2023	2SA568F	2023
2SA480F	2023	2SA494-GR	2023	2SA502E	2023	2SA530K	2023	2SA561-RED	2023	2SA564AP	2023	2SA568G	2023
2SA480G	2023	2SA494-GR-1	2023	2SA502F	2023	2SA530L	2023	2SA561-Y	2023	2SA564A-Q	2023	2SA568GN	2023
2SA480GN	2023	2SA494-O	2023	2SA502G	2023	2SA530M	2023	2SA561-YEL	2023	2SA564AQ	2023	2SA568H	2023
2SA480H	2023	2SA494-OR	2023	2SA502GN	2023	2SA530OR	2023	2SA561-YL	2023	2SA564AQ-(HD)	2023	2SA568I	2023
2SA480J	2023	2SA494-Y	2023	2SA502H	2023	2SA530R	2023	2SA561GRN	2023	2SA564AQR	2023	2SA568K	2023
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2SA480L	2023	2SA494B	2023	2SA502K	2023	2SA530Y	2023	2SA561RD	2023	2SA564AR	2023	2SA568M	2023
2SA430M	2023	2SA494C	2023	2SA502L	2023	2SA535	2023	2SA561RED	2023	2SA564A-S	2023	2SA568OR	2023
2SA430OR	2023	2SA494D	2023	2SA502M	2023	2SA539	2023	2SA561Y	2023	2SA564AS	2023	2SA568R	2023
2SA480R	2023	2SA494E	2023	2SA502OR	2023	2SA539(K)	2023	2SA561YEL	2023	2SA564B	2023	2SA568X	2023

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2SA568Y	2023	2SA608J	2023	2SA629R	2023	2SA666R	2023	2SA678J	2023	2SA720-Q	2023	2SA798-G-OU	2023
2SA569	2023	2SA608K	2023	2SA629X	2023	2SA666S	2023	2SA678K	2023	2SA720-R	2023	2SA811	2023
2SA569A	2023	2SA608K(E)	2023	2SA629Y	2023	2SA666Y	2023	2SA678L	2023	2SA720A	2023	2SA811A	2023
2SA569B	2023	2SA608K(F)	2023	2SA638E,F	2023	2SA670	2027	2SA678M	2023	2SA720B	2023	2SA811C5	2023
2SA569C	2023	2SA608KE	2023	2SA640	2023	2SA670A	2027	2SA678OR	2023	2SA720C	2023	2SA811C6	2023
2SA569D	2023	2SA608KF	2023	2SA640(M)	2023	2SA670B	2027	2SA678R	2023	2SA720D	2023	2SA811C7	2023
2SA569E	2023	2SA608KNP-T	2023	2SA640A	2023	2SA670C	2027	2SA678X	2023	2SA720L	2023	2SA811C8	2023
2SA569F	2023	2SA608L	2023	2SA640B	2023	2SA672	2023	2SA678Y	2023	2SA720NC	2023	2SA812	2023
2SA569G	2023	2SA608M	2023	2SA640C	2023	2SA672(B)	2023	2SA679	2043	2SA720Q	2023	2SA812M3	2023
2SA569GN	2023	2SA608NP	2023	2SA640D	2023	2SA672A	2023	2SA679-R	2043	2SA720QR	2023	2SA812M4	2023
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2SA569J	2023	2SA608NP(G)	2023	2SA641	2023	2SA672C	2023	2SA680	2043	2SA720RST	2023	2SA812M6	2023
2SA569K	2023	2SA608NP-T	2023	2SA641A	2023	2SA673	2023	2SA680-R	2043	2SA720S	2023	2SA812M7	2023
2SA569L	2023	2SA608OR	2023	2SA641B	2023	2SA673(B)	2023	2SA680-Y	2043	2SA720Y	2023	2SA825	2023
2SA569M	2023	2SA608P	2023	2SA641BL	2023	2SA673(C)	2023	2SA685	2023	2SA721	2023	2SA825Q	2023
2SA569OR	2023	2SA608R	2023	2SA641C	2023	2SA673(D)	2023	2SA693	2023	2SA721Q	2023	2SA825R	2023
2SA569R	2023	2SA608SP	2023	2SA641D	2023	2SA673-C	2023	2SA693C	2023	2SA721R	2023	2SA825S	2023
2SA569X	2023	2SA608SP(F)	2023	2SA641G	2023	2SA673-D	2023	2SA696	2023	2SA721S	2023	2SA826	2023
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2SA570A	2023	2SA608Y	2023	2SA641L	2023	2SA673A	2023	2SA697C	2023	2SA722	2023	2SA826R	2023
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2SA570E	2023	2SA609C	2023	2SA641R	2023	2SA673AC	2023	2SA701	2023	2SA725	2023	2SA836(D)	2023
2SA570F	2023	2SA609D	2023	2SA641Y	2023	2SA673AD	2023	2SA701F	2023	2SA725Y	2023	2SA836(E)	2023
2SA570G	2023	2SA609E	2023	2SA642	2023	2SA673AK	2023	2SA701F0	2023	2SA726	2023	2SA836C	2023
2SA570GN	2023	2SA609F	2023	2SA642A	2023	2SA673AKA	2023	2SA701FJ	2023	2SA726Y	2023	2SA836D	2023
2SA570H	2023	2SA609G	2023	2SA642B	2023	2SA673AKB	2023	2SA701FO	2023	2SA728	2023	2SA836E	2023
2SA570J	2023	2SA609GN	2023	2SA642C	2023	2SA673AKC	2023	2SA702	2023	2SA728A	2023	2SA836F	2023
2SA570K	2023	2SA609J	2023	2SA642D	2023	2SA673AKD	2023	2SA704	2023	2SA733	2023	2SA838	2023
2SA570L	2023	2SA609K	2023	2SA642E	2023	2SA673AS	2023	2SA704A	2023	2SA733(E)	2023	2SA838B	2023
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2SA570OR	2023	2SA609M	2023	2SA642G	2023	2SA673B	2023	2SA704C	2023	2SA733(P)	2023	2SA841	2023
2SA570R	2023	2SA609OR	2023	2SA642GN	2023	2SA673C	2023	2SA704D	2023	2SA733(Q)	2023	2SA841-BL	2023
2SA570X	2023	2SA609R	2023	2SA642H	2023	2SA673C2	2023	2SA704E	2023	2SA733-P	2023	2SA841-GR	2023
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2SA572	2023	2SA610	2023	2SA642K	2023	2SA673E	2023	2SA704G	2023	2SA733A	2023	2SA842-BL	2023
2SA572Y	2023	2SA611	2023	2SA642L	2023	2SA673F	2023	2SA704GN	2023	2SA733AK	2023	2SA842-GR	2023
2SA573	2023	2SA620	2023	2SA642M	2023	2SA673G	2023	2SA704H	2023	2SA733AP	2023	2SA844	2023
2SA575	2023	2SA621	2023	2SA642OR	2023	2SA673GN	2023	2SA704J	2023	2SA733APT	2023	2SA844(D)	2023
2SA578	2023	2SA628	2023	2SA642R	2023	2SA673H	2023	2SA704K	2023	2SA733AQ	2023	2SA844(E)	2023
2SA579	2023	2SA628(EF)	2023	2SA642S	2023	2SA673J	2023	2SA704L	2023	2SA733AR	2023	2SA844C	2023
2SA603	2023	2SA628(F)	2023	2SA642V	2023	2SA673K	2023	2SA704M	2023	2SA733H	2023	2SA844CD	2023
2SA603A	2023	2SA628-O	2023	2SA642W	2023	2SA673L	2023	2SA704OR	2023	2SA733IO	2023	2SA844D	2023
2SA603B	2023	2SA628-OR	2023	2SA642X	2023	2SA673M	2023	2SA704R	2023	2SA733IQ	2023	2SA844E	2023
2SA603C	2023	2SA628A	2023	2SA642Y	2023	2SA673OR	2023	2SA704X	2023	2SA733K	2023	2SA844F	2023
2SA603D	2023	2SA628A(E)	2023	2SA648	2043	2SA673R	2023	2SA704Y	2023	2SA733P	2023	2SA844O	2023
2SA603E	2023	2SA628AA	2023	2SA649	2043	2SA673X	2023	2SA705	2023	2SA733PQ	2023	2SA850	2023
2SA603F	2023	2SA628AD	2023	2SA649A	2043	2SA673Y	2023	2SA705A	2023	2SA733Q	2023	2SA-854	2023
2SA603G	2023	2SA628A-E	2023	2SA650	2043	2SA675	2023	2SA705B	2023	2SA733Q1P	2023	2SA854	2023
2SA603GN	2023	2SA628AE	2023	2SA651	2043	2SA677	2023	2SA705C	2023	2SA733QP	2023	2SA854(Q)	2023
2SA603H	2023	2SA628A-F	2023	2SA659	2023	2SA677-0	2023	2SA705D	2023	2SA733QT	2023	2SA854-Q	2023
2SA603J	2023	2SA628AF	2023	2SA659(D)	2023	2SA677-O	2023	2SA705E	2023	2SA733R	2023	2SA854G	2023
2SA603K	2023	2SA628B	2023	2SA659(E)	2023	2SA677-OR	2023	2SA705F	2023	2SA735	2023	2SA-854Q	2023
2SA603L	2023	2SA628C	2023	2SA659A	2023	2SA677A	2023	2SA705G	2023	2SA744	2043	2SA854Q	2023
2SA603M	2023	2SA628D	2023	2SA659B	2023	2SA677B	2023	2SA705GN	2023	2SA745	2043	2SA854QE	2023
2SA603OR	2023	2SA628E	2023	2SA659D	2023	2SA677C	2023	2SA705H	2023	2SA745A	2043	2SA854QV	2023
2SA603R	2023	2SA628E,F	2023	2SA659E	2023	2SA677D	2023	2SA705J	2023	2SA746	2043	2SA854QY	2023
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2SA608	2023	2SA628G	2023	2SA659L	2023	2SA677G	2023	2SA705M	2023	2SA750	2023	2SA856	2023
2SA608(C)	2023	2SA628GN	2023	2SA659P	2023	2SA677GN	2023	2SA705OR	2023	2SA753	2043	2SA856A	2023
2SA608(D)	2023	2SA628H	2023	2SA659R	2023	2SA677H	2023	2SA705R	2023	2SA754	2027	2SA859	2023
2SA608(E)	2023	2SA628J	2023	2SA659Y	2023	2SA677HL	2023	2SA705X	2023	2SA755	2027	2SA866	2023
2SA608(F)	2023	2SA628K	2023	2SA661	2023	2SA677J	2023	2SA705Y	2023	2SA755B	2027	2SA866V	2023
2SA608-0	2023	2SA628L	2023	2SA661-GR	2023	2SA677K	2023	2SA709	2023	2SA755C	2027	2SA866VG	2023
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2SA608-E	2023	2SA628OR	2023	2SA661-R	2023	2SA677M	2023	2SA714-L	2043	2SA759	2023	2SA869	2023
2SA608-F	2023	2SA628R	2023	2SA661-Y	2023	2SA677OR	2023	2SA714L	2043	2SA760	2023	2SA870	2023
2SA608-O	2023	2SA628X	2023	2SA661Y	2023	2SA677R	2023	2SA718	2023	2SA763	2023	2SA876HA	2023
2SA608-OR	2023	2SA628Y	2023	2SA663	2043	2SA677X	2023	2SA719	2023	2SA767	2023	2SA876HB	2023
2SA608A	2023	2SA629	2023	2SA663-BL	2043	2SA677Y	2023	2SA719(Q)	2023	2SA768	2027	2SA876HC	2023
2SA608A(E)	2023	2SA629A	2023	2SA663-R	2043	2SA678	2023	2SA719-P	2023	2SA768G	2027	2SA880	2023
2SA608A(F)	2023	2SA629B	2023	2SA663-Y	2043	2SA678(C)	2023	2SA719-Q	2023	2SA768O	2027	2SA882	2043
2SA608AE	2023	2SA629C	2023	2SA666	2023	2SA678(SONY)	2023	2SA719-R	2023	2SA768Y	2027	2SA888	2023
2SA608AF	2023	2SA629D	2023	2SA666A	2023	2SA678-O	2023	2SA719,R	2023	2SA774	2023	2SA889	2023
2SA608B	2023	2SA629E	2023	2SA666B	2023	2SA678-OR	2023	2SA719K	2023	2SA774A	2023	2SA890	2023
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2SA608C	2023	2SA629G	2023	2SA666C	2023	2SA678B	2023	2SA719O	2023	2SA786	2023	2SA906	2023
2SA608D	2023	2SA629GN	2023	2SA666D	2023	2SA678C	2023	2SA719PQR	2023	2SA786-Q	2023	2SA927	2023
2SA608D(F)	2023	2SA629H	2023	2SA666E	2023	2SA678D	2023	2SA719Q	2023	2SA786Q	2023	2SA929	2023
2SA608E	2023	2SA629J	2023	2SA666H	2023	2SA678E	2023	2SA719R	2023	2SA786QL	2023	2SA929G	2023
2SA608F	2023	2SA629K	2023	2SA666HR	2023	2SA678F	2023	2SA719S	2023	2SA786R	2023	2SA929H	2023
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2SA608GN	2023	2SA629M	2023	2SA666IQRS	2023	2SA678GN	2023	2SA720-G	2023	2SA788	2023	2SA933	2023
2SA608H	2023	2SA629OR	2023	2SA666QRS	2023	2SA678H	2023	2SA720-O	2023	2SA798	2023	2SA933(Q)	2023

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2SA933(R)	2023	2SA1015-OFA	2023	2SA1246(S)	2023	2SB558-O	2043	2SB745A	2023	2SC17GN	1617	2SC22G	2030
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2SA933LN	2023	2SA1015G	2023	2SA1246S	2023	2SB598F	2023	2SB774	2023	2SC17L	1617	2SC22K	2030
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2SA933QY	2023	2SA1015O	2023	2SA1246U	2023	2SB611A	2043	2SB774(R)	2023	2SC17OR	1617	2SC22M	2030
2SA933R	2023	2SA1015Y	2023	2SA1264T	2023	2SB640	2023	2SB774(S)	2023	2SC17R	1617	2SC22OR	2030
2SA933RK	2023	2SA1016	2023	2SA1305Y	2027	2SB641	2023	2SB774Q	2023	2SC17X	1617	2SC22R	2030
2SA933S	2023	2SA1016(F)	2023	2SA4950	2023	2SB641(P)	2023	2SB774R	2023	2SC17Y	1617	2SC22X	2030
2SA933SQ	2023	2SA1016(G)	2023	2SA4950R	2023	2SB641(Q)	2023	2SB774S	2023	2SC18	2009	2SC22Y	2030
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2SA933SS	2023	2SA1016G	2023	2SA-NJ-101	2023	2SB641(S)	2023	2SB808	2023	2SC18B	1617	2SC23A	2030
2SA-937	2023	2SA1016K	2023	2SANJ101	2023	2SB641(T)	2023	2SB808F	2023	2SC18C	1617	2SC23B	2030
2SA937	2023	2SA1023	2023	2SB434	2027	2SB641-Q	2023	2SB808G1	2023	2SC18D	1617	2SC23D	2030
2SA937(R)	2023	2SA1023P	2023	2SB434(O)	2027	2SB641-QR	2023	2SB856B	2027	2SC18E	1617	2SC23E	2030
2SA937-Q	2023	2SA1023Q	2023	2SB434-O	2027	2SB641-R	2023	2SB856C	2027	2SC18F	1617	2SC23F	2030
2SA937LN	2023	2SA1025D	2023	2SB434-ORG	2027	2SB641-S	2023	2SB2821	2023	2SC18G	1617	2SC23G	2030
2SA937M	2023	2SA1025E	2023	2SB434-R	2027	2SB641P	2023	2SB-C731	1104	2SC18GN	1617	2SC23GN	2030
2SA937M(Q)	2023	2SA1026	2023	2SB434-RED	2027	2SB641Q	2023	2SB-S131	1114	2SC18H	1617	2SC23H	2030
2SA937M(R)	2023	2SA1027	2023	2SB434-Y	2027	2SB641QR	2023	2SB-S851	1171	2SC18J	1617	2SC23J	2030
2SA937M(S)	2023	2SA1027(R)	2023	2SB434-YEL	2027	2SB641QRS	2023	2SC12	2030	2SC18K	1617	2SC23K	2030
2SA937MQRS	2023	2SA1027R	2023	2SB434G-O	2027	2SB641R	2023	2SC12A	2030	2SC18L	1617	2SC23L	2030
2SA937MR	2023	2SA1028	2043	2SB434G-R	2027	2SB641S	2023	2SC12B	2030	2SC18M	1617	2SC23M	2030
2SA937MRS	2023	2SA1029	2023	2SB434G-Y	2027	2SB641T	2023	2SC12C	2030	2SC18OR	1617	2SC23OR	2030
2SA937MS	2023	2SA1029B	2023	2SB434R	2027	2SB642	2023	2SC12D	2030	2SC18R	1617	2SC23R	2030
2SA937Q	2023	2SA1029C	2023	2SB435	2027	2SB642(Q)	2023	2SC12E	2030	2SC18X	1617	2SC23X	2030
2SA937R	2023	2SA1029D	2023	2SB435-0	2027	2SB642(R)	2023	2SC12F	2030	2SC19	2030	2SC23Y	2030
2SA937RZ	2023	2SA1030B	2023	2SB435-O	2027	2SB642(S)	2023	2SC12G	2030	2SC19A	2030	2SC24	2030
2SA941	2023	2SA1030C	2023	2SB435-ORG	2027	2SB642-O	2023	2SC12GN	2030	2SC19B	2030	2SC24A	2030
2SA942	2023	2SA1040	2023	2SB435-R	2027	2SB642-Q	2023	2SC12H	2030	2SC19C	2030	2SC24B	2030
2SA950	2023	2SA1042	2043	2SB435-RED	2027	2SB642-R	2023	2SC12J	2030	2SC19D	2030	2SC24C	2030
2SA950(O)	2023	2SA1045	2043	2SB435-Y	2027	2SB642P	2023	2SC12K	2030	2SC19E	2030	2SC24D	2030
2SA950(Y)	2023	2SA1046	2043	2SB435-YEL	2027	2SB642Q	2023	2SC12L	2030	2SC19F	2030	2SC24E	2030
2SA950-0	2023	2SA1048	2023	2SB435G-O	2027	2SB642QR	2023	2SC12M	2030	2SC19G	2030	2SC24F	2030
2SA950-O	2023	2SA1048-GR	2023	2SB435G-R	2027	2SB642QRS	2023	2SC12OR	2030	2SC19GN	2030	2SC24G	2030
2SA950-Y	2023	2SA1048-O	2023	2SB435G-Y	2027	2SB642R	2023	2SC12R	2030	2SC19H	2030	2SC24GN	2030
2SA950FA	2023	2SA1048GR	2023	2SB435O	2027	2SB642S	2023	2SC12X	2030	2SC19J	2030	2SC24H	2030
2SA950Y	2023	2SA1048O	2023	2SB435R	2027	2SB643	2023	2SC12Y	2030	2SC19K	2030	2SC24J	2030
2SA952	2023	2SA1048Y	2023	2SB435RY	2027	2SB643(Q)	2023	2SC15	1617	2SC19L	2030	2SC24K	2030
2SA952(L)	2023	2SA1049	2023	2SB435Y	2027	2SB643(R)	2023	2SC15-0	1617	2SC19M	2030	2SC24L	2030
2SA952(M)	2023	2SA1050	2023	2SB507	2027	2SB643(S)	2023	2SC15-1	1617	2SC19OR	2030	2SC24M	2030
2SA952K	2023	2SA1081D	2023	2SB507E	2027	2SB643-O	2023	2SC15-2	1617	2SC19R	2030	2SC24OR	2030
2SA952L	2023	2SA1081E	2023	2SB508	2027	2SB643-P	2023	2SC15-3	1617	2SC19X	2030	2SC24R	2030
2SA952LK	2023	2SA1082D	2023	2SB509	2027	2SB643-Q	2023	2SC15A	1617	2SC19Y	2030	2SC24X	2030
2SA953	2023	2SA1082E	2023	2SB511	2027	2SB643-R	2023	2SC15B	1617	2SC20	2030	2SC24Y	2030
2SA953(K)	2023	2SA1083D	2023	2SB511-1	2027	2SB643P	2023	2SC15C	1617	2SC20A	2030	2SC26	1617
2SA953(L)	2023	2SA1083E	2023	2SB511C	2027	2SB643PQR	2023	2SC15D	1617	2SC20B	2030	2SC26A	1617
2SA954	2023	2SA1090	2023	2SB511D	2027	2SB643Q	2023	2SC15E	1617	2SC20C	2030	2SC26B	1617
2SA970	2023	2SA1092	2023	2SB511E	2027	2SB643QRS	2023	2SC15F	1617	2SC20D	2030	2SC26C	1617
2SA970NEW-BL	2023	2SA1100	2023	2SB512	2027	2SB643R	2023	2SC15G	1617	2SC20E	2030	2SC26D	1617
2SA973	2023	2SA1100D	2023	2SB512-0	2027	2SB643S	2023	2SC15GN	1617	2SC20F	2030	2SC26E	1617
2SA978	2023	2SA1100F	2023	2SB512-O	2027	2SB644	2023	2SC15H	1617	2SC20G	2030	2SC26F	1617
2SA980	2043	2SA1100L	2023	2SB512A	2027	2SB644(Q)	2023	2SC15J	1617	2SC20GN	2030	2SC26G	1617
2SA981	2043	2SA1115	2023	2SB512P	2027	2SB644(R)	2023	2SC15K	1617	2SC20H	2030	2SC26GN	1617
2SA982	2043	2SA1115(E)	2023	2SB513	2027	2SB644(S)	2023	2SC15L	1617	2SC20J	2030	2SC26H	1617
2SA984	2023	2SA1115(F)	2023	2SB513A	2027	2SB644-Q	2023	2SC15M	1617	2SC20K	2030	2SC26J	1617
2SA984(E)	2023	2SA1115-E	2023	2SB513P	2027	2SB644-R	2023	2SC15OR	1617	2SC20L	2030	2SC26K	1617
2SA984(F)	2023	2SA1115-F	2023	2SB513Q	2027	2SB644Q	2023	2SC15R	1617	2SC20M	2030	2SC26L	1617
2SA984E	2023	2SA1115E	2023	2SB513R	2027	2SB644QR	2023	2SC15X	1617	2SC20OR	2030	2SC26M	1617
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2SA987	2023	2SA1150Y	2023	2SB520-1	2043	2SB698	2023	2SC16B	1617	2SC21	2041	2SC26Y	1617
2SA990	2023	2SA1152	2023	2SB520-2	2043	2SB698(F)	2023	2SC16C	1617	2SC21A	2041	2SC27	1617
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2SA1001	2043	2SA1175(E)	2023	2SB531	2043	2SB699Q	2027	2SC16GN	1617	2SC21F	2041	2SC27F	1617
2SA1002	2043	2SA1175(F)	2023	2SB531-O	2043	2SB709	2023	2SC16H	1617	2SC21G	2041	2SC27G	1617
2SA1004	2023	2SA1175(H)	2023	2SB531-R	2043	2SB709A	2023	2SC16J	1617	2SC21GN	2041	2SC27GN	1617
2SA1005	2023	2SA1175-F	2023	2SB531-Y	2043	2SB709QR-TX	2023	2SC16K	1617	2SC21H	2041	2SC27H	1617
2SA1012	2027	2SA1175E	2023	2SB532	2043	2SB721	2023	2SC16L	1617	2SC21J	2041	2SC27J	1617
2SA1012-Y	2027	2SA1175F	2023	2SB542	2023	2SB726	2023	2SC16M	1617	2SC21K	2041	2SC27K	1617
2SA1012Y	2027	2SA1175F(H)	2023	2SB542D	2023	2SB726(R)	2023	2SC16OR	1617	2SC21L	2041	2SC27L	1617
2SA-1015	2023	2SA1175FH	2023	2SB555	2043	2SB726(S)	2023	2SC16R	1617	2SC21M	2041	2SC27M	1617
2SA1015	2023	2SA1175H	2023	2SB555-O	2043	2SB726(T)	2023	2SC16X	1617	2SC21OR	2041	2SC27OR	1617
2SA1015(G)	2023	2SA1175J	2023	2SB555-R	2043	2SB726R	2023	2SC16Y	1617	2SC21R	2041	2SC27R	1617
2SA1015(GR)	2023	2SA1198	2023	2SB555R	2043	2SB726S	2023	2SC17	1617	2SC21X	2041	2SC27X	1617
2SA1015(GR)L	2023	2SA1198(E)	2023	2SB556	2043	2SB726T	2023	2SC17A	1617	2SC21Y	2041	2SC27Y	1617
2SA1015(O)	2023	2SA1198(S)	2023	2SB556-O	2043	2SB744	2023	2SC17B	1617	2SC22	2030	2SC28	1617
2SA1015(Y)	2023	2SA1198RS	2023	2SB556-R	2043	2SB744A	2023	2SC17C	1617	2SC22A	2030	2SC28A	1617
2SA1015(Y)L	2023	2SA1198S	2023	2SB557	2043	2SB744Q	2023	2SC17D	1617	2SC22B	2030	2SC28B	1617
2SA1015-0	2023	2SA1199	2023	2SB557-O	2043	2SB744R	2023	2SC17E	1617	2SC22D	2030	2SC28C	1617
2SA1015-GR	2023	2SA1246	2023	2SB557-R	2043	2SB744S	2023	2SC17F	1617	2SC22E	2030	2SC28D	1617
2SA1015-O	2023	2SA1246(R)	2023	2SB558	2043	2SB745	2023	2SC17G	1617	2SC22F	2030	2SC28E	1617

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
2SC28F	1617	2SC33C	2009	2SC45B-O	1617	2SC51X	2030	2SC56Y	2016	2SC64Y-RST	2030	2SC79L	2058
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2SC32F	2030	2SC40D	2016	2SC51A	2030	2SC56B	2016	2SC64B	2030	2SC74R	1617	2SC95D	2030
2SC32G	2030	2SC40E	2016	2SC51B	2030	2SC56C	2016	2SC64C	2030	2SC74X	1617	2SC95E	2030
2SC32GN	2030	2SC40F	2016	2SC51C	2030	2SC56D	2016	2SC64D	2030	2SC74Y	1617	2SC95F	2030
2SC32H	2030	2SC40G	2016	2SC51D	2030	2SC56E	2016	2SC64E	2030	2SC79	2058	2SC95G	2030
2SC32J	2030	2SC40GN	2016	2SC51E	2030	2SC56F	2016	2SC64F	2030	2SC79A	2058	2SC95GN	2030
2SC32K	2030	2SC40H	2016	2SC51F	2030	2SC56G	2016	2SC64G	2030	2SC79B	2058	2SC95H	2030
2SC32L	2030	2SC40J	2016	2SC51G	2030	2SC56GN	2016	2SC64GN	2030	2SC79C	2058	2SC95J	2030
2SC32M	2030	2SC40K	2016	2SC51GN	2030	2SC56H	2016	2SC64H	2030	2SC79D	2058	2SC95K	2030
2SC32OR	2030	2SC40L	2016	2SC51H	2030	2SC56J	2016	2SC64K	2030	2SC79E	2058	2SC95L	2030
2SC32R	2030	2SC40OR	2016	2SC51J	2030	2SC56K	2016	2SC64L	2030	2SC79F	2058	2SC95M	2030
2SC32X	2030	2SC40R	2016	2SC51K	2030	2SC56L	2016	2SC64M	2030	2SC79G	2058	2SC95OR	2030
2SC32Y	2030	2SC40X	2016	2SC51L	2030	2SC56M	2016	2SC64OR	2030	2SC79GN	2058	2SC95R	2030
2SC33	2009	2SC40Y	2016	2SC51M	2030	2SC56OR	2016	2SC64R	2030	2SC79H	2058	2SC95X	2030
2SC33A	2009	2SC45	1617	2SC51OR	2030	2SC56R	2016	2SC64X	2030	2SC79J	2058	2SC95Y	2030
2SC33B	2009	2SC45B-GR	1617	2SC51R	2030	2SC56X	2016	2SC64Y	2030	2SC79K	2058	2SC96	2009

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
2SC97	2030	2SC104	1617	2SC111E	1617	2SC115X	2030	2SC120R	1617	2SC127M	1617	2SC134OR	1617
2SC97A	2030	2SC104A	1617	2SC111F	1617	2SC115Y	2030	2SC120Y	1617	2SC127OR	1617	2SC134R	1617
2SC97B	2030	2SC104B	1617	2SC111G	1617	2SC116	2009	2SC121	2030	2SC127R	1617	2SC134X	1617
2SC97C	2030	2SC104C	1617	2SC111GN	1617	2SC116-OR	2009	2SC121A	2030	2SC127X	1617	2SC134Y	1617
2SC97D	2030	2SC104D	1617	2SC111H	1617	2SC116A	2009	2SC121B	2030	2SC127Y	1617	2SC135	1617
2SC97E	2030	2SC104E	1617	2SC111J	1617	2SC116B	2009	2SC121C	2030	2SC130	2030	2SC135A	1617
2SC97F	2030	2SC104F	1617	2SC111K	1617	2SC116C	2009	2SC121D	2030	2SC130A	2030	2SC135B	1617
2SC97G	2030	2SC104G	1617	2SC111L	1617	2SC116D	2009	2SC121E	2030	2SC130B	2030	2SC135C	1617
2SC97GN	2030	2SC104GN	1617	2SC111M	1617	2SC116E	2009	2SC121F	2030	2SC130C	2030	2SC135D	1617
2SC97H	2030	2SC104H	1617	2SC111OR	1617	2SC116F	2009	2SC121G	2030	2SC130D	2030	2SC135E	1617
2SC97J	2030	2SC104J	1617	2SC111R	1617	2SC116G	2009	2SC121GN	2030	2SC130E	2030	2SC135F	1617
2SC97K	2030	2SC104K	1617	2SC111X	1617	2SC116GN	2009	2SC121H	2030	2SC130F	2030	2SC135G	1617
2SC97L	2030	2SC104L	1617	2SC111Y	1617	2SC116H	2009	2SC121J	2030	2SC130GN	2030	2SC135GN	1617
2SC97M	2030	2SC104M	1617	2SC112	2030	2SC116J	2009	2SC121L	2030	2SC130H	2030	2SC135H	1617
2SC97OR	2030	2SC104OR	1617	2SC112A	2030	2SC116K	2009	2SC121M	2030	2SC130J	2030	2SC135J	1617
2SC97R	2030	2SC104R	1617	2SC112B	2030	2SC116L	2009	2SC121OR	2030	2SC130K	2030	2SC135L	1617
2SC97X	2030	2SC104X	1617	2SC112C	2030	2SC116M	2009	2SC121R	2030	2SC130L	2030	2SC135M	1617
2SC97Y	2030	2SC104Y	1617	2SC112D	2030	2SC116OR	2009	2SC121X	2030	2SC130M	2030	2SC135OR	1617
2SC98	1617	2SC105	1617	2SC112E	2030	2SC116R	2009	2SC121Y	2030	2SC130OR	2030	2SC135R	1617
2SC98A	1617	2SC105B	1617	2SC112F	2030	2SC116T	2009	2SC122	2030	2SC130R	2030	2SC135X	1617
2SC98B	1617	2SC107	2020	2SC112G	2030	2SC116X	2009	2SC122A	2030	2SC130X	2030	2SC135Y	1617
2SC98C	1617	2SC107G4	2020	2SC112GN	2030	2SC116Y	2009	2SC122B	2030	2SC130Y	2030	2SC136	1617
2SC98D	1617	2SC107G5	2020	2SC112H	2030	2SC117	2030	2SC122C	2030	2SC131	1617	2SC136D	1617
2SC98E	1617	2SC107G6	2020	2SC112J	2030	2SC117A	2030	2SC122D	2030	2SC131A	1617	2SC137	1617
2SC98F	1617	2SC108	2030	2SC112K	2030	2SC117B	2030	2SC122E	2030	2SC131B	1617	2SC137A	1617
2SC98G	1617	2SC108A	2030	2SC112L	2030	2SC117C	2030	2SC122F	2030	2SC131C	1617	2SC137B	1617
2SC98GN	1617	2SC108A-O	2030	2SC112M	2030	2SC117D	2030	2SC122G	2030	2SC131D	1617	2SC137C	1617
2SC98H	1617	2SC108A-R	2030	2SC112OR	2030	2SC117F	2030	2SC122GN	2030	2SC131E	1617	2SC137D	1617
2SC98J	1617	2SC108B	2030	2SC112R	2030	2SC117G	2030	2SC122H	2030	2SC131F	1617	2SC137E	1617
2SC98K	1617	2SC108C	2030	2SC112X	2030	2SC117GN	2030	2SC122J	2030	2SC131G	1617	2SC137F	1617
2SC98L	1617	2SC108D	2030	2SC112Y	2030	2SC117H	2030	2SC122K	2030	2SC131GN	1617	2SC137G	1617
2SC98M	1617	2SC108E	2030	2SC113	2030	2SC117J	2030	2SC122L	2030	2SC131H	1617	2SC137GN	1617
2SC98OR	1617	2SC108F	2030	2SC113A	2030	2SC117K	2030	2SC122M	2030	2SC131J	1617	2SC137H	1617
2SC98R	1617	2SC108G	2030	2SC113B	2030	2SC117L	2030	2SC122OR	2030	2SC131L	1617	2SC137J	1617
2SC98X	1617	2SC108GN	2030	2SC113C	2030	2SC117M	2030	2SC122R	2030	2SC131M	1617	2SC137K	1617
2SC98Y	1617	2SC108H	2030	2SC113D	2030	2SC117OR	2030	2SC122X	2030	2SC131OR	1617	2SC137L	1617
2SC99	1617	2SC108J	2030	2SC113E	2030	2SC117R	2030	2SC122Y	2030	2SC131R	1617	2SC137M	1617
2SC99A	1617	2SC108K	2030	2SC113F	2030	2SC117X	2030	2SC123	2030	2SC131T	1617	2SC137OR	1617
2SC99B	1617	2SC108L	2030	2SC113G	2030	2SC117Y	2030	2SC123A	2030	2SC131Y	1617	2SC137R	1617
2SC99C	1617	2SC108M	2030	2SC113GN	2030	2SC118	2030	2SC123B	2030	2SC132	1617	2SC137X	1617
2SC99D	1617	2SC108OR	2030	2SC113H	2030	2SC118A	2030	2SC123C	2030	2SC132A	1617	2SC137Y	1617
2SC99E	1617	2SC108R	2030	2SC113J	2030	2SC118B	2030	2SC123D	2030	2SC132B	1617	2SC138	1617
2SC99F	1617	2SC108X	2030	2SC113K	2030	2SC118C	2030	2SC123E	2030	2SC132C	1617	2SC138A	1617
2SC99G	1617	2SC108Y	2030	2SC113L	2030	2SC118D	2030	2SC123F	2030	2SC132D	1617	2SC138B	1617
2SC99GN	1617	2SC109	2030	2SC113M	2030	2SC118E	2030	2SC123G	2030	2SC132E	1617	2SC138C	1617
2SC99H	1617	2SC109A	2030	2SC113OR	2030	2SC118F	2030	2SC123GN	2030	2SC132F	1617	2SC138D	1617
2SC99J	1617	2SC109A-O	2030	2SC113R	2030	2SC118G	2030	2SC123H	2030	2SC132G	1617	2SC138E	1617
2SC99K	1617	2SC109A-R	2030	2SC113X	2030	2SC118GN	2030	2SC123J	2030	2SC132GN	1617	2SC138F	1617
2SC99L	1617	2SC109A-Y	2030	2SC113Y	2030	2SC118H	2030	2SC123K	2030	2SC132H	1617	2SC138G	1617
2SC99M	1617	2SC109B	2030	2SC114	2030	2SC118J	2030	2SC123L	2030	2SC132J	1617	2SC138GN	1617
2SC99OR	1617	2SC109C	2030	2SC114A	2030	2SC118L	2030	2SC123M	2030	2SC132K	1617	2SC138H	1617
2SC99R	1617	2SC109D	2030	2SC114B	2030	2SC118M	2030	2SC123OR	2030	2SC132L	1617	2SC138J	1617
2SC99X	1617	2SC109E	2030	2SC114C	2030	2SC118OR	2030	2SC123R	2030	2SC132M	1617	2SC138L	1617
2SC99Y	1617	2SC109F	2030	2SC114D	2030	2SC118R	2030	2SC123X	2030	2SC132OR	1617	2SC138M	1617
2SC100	1617	2SC109G	2030	2SC114E	2030	2SC118X	2030	2SC123Y	2030	2SC132R	1617	2SC138OR	1617
2SC100-OY	1617	2SC109G1	2030	2SC114F	2030	2SC118Y	2030	2SC124	2030	2SC132X	1617	2SC138R	1617
2SC100A	1617	2SC109GN	2030	2SC114G	2030	2SC119	2030	2SC124A	2030	2SC132Y	1617	2SC138S	1617
2SC100B	1617	2SC109J	2030	2SC114GN	2030	2SC119A	2030	2SC124B	2030	2SC133	1617	2SC138X	1617
2SC100C	1617	2SC109K	2030	2SC114H	2030	2SC119B	2030	2SC124C	2030	2SC133A	1617	2SC139	1617
2SC100D	1617	2SC109L	2030	2SC114J	2030	2SC119C	2030	2SC124D	2030	2SC133C	1617	2SC139A	1617
2SC100E	1617	2SC109OR	2030	2SC114K	2030	2SC119D	2030	2SC124E	2030	2SC133D	1617	2SC139B	1617
2SC100F	1617	2SC109R	2030	2SC114L	2030	2SC119E	2030	2SC124F	2030	2SC133E	1617	2SC139C	1617
2SC100G	1617	2SC109X	2030	2SC114M	2030	2SC119F	2030	2SC124G	2030	2SC133F	1617	2SC139D	1617
2SC100GN	1617	2SC109Y	2030	2SC114OR	2030	2SC119G	2030	2SC124GN	2030	2SC133G	1617	2SC139E	1617
2SC100J	1617	2SC110	1617	2SC114R	2030	2SC119GN	2030	2SC124H	2030	2SC133GN	1617	2SC139F	1617
2SC100L	1617	2SC110A	1617	2SC114X	2030	2SC119H	2030	2SC124J	2030	2SC133H	1617	2SC139G	1617
2SC100M	1617	2SC110B	1617	2SC114Y	2030	2SC119J	2030	2SC124K	2030	2SC133J	1617	2SC139GN	1617
2SC100OR	1617	2SC110C	1617	2SC115	2030	2SC119K	2030	2SC124L	2030	2SC133K	1617	2SC139H	1617
2SC100R	1617	2SC110D	1617	2SC115-1	2030	2SC119L	2030	2SC124M	2030	2SC133L	1617	2SC139J	1617
2SC100X	1617	2SC110E	1617	2SC115-2	2030	2SC119M	2030	2SC124OR	2030	2SC133M	1617	2SC139K	1617
2SC100Y	1617	2SC110F	1617	2SC115-3	2030	2SC119OR	2030	2SC124R	2030	2SC133OR	1617	2SC139M	1617
2SC103	1617	2SC110G	1617	2SC115-43	2030	2SC119R	2030	2SC124X	2030	2SC133X	1617	2SC139OR	1617
2SC103A	1617	2SC110GN	1617	2SC115A	2030	2SC119X	2030	2SC124Y	2030	2SC133Y	1617	2SC139R	1617
2SC103B	1617	2SC110H	1617	2SC115B	2030	2SC119Y	2030	2SC125	2030	2SC134	1617	2SC139X	1617
2SC103C	1617	2SC110J	1617	2SC115C	2030	2SC120	1617	2SC127	1617	2SC134A	1617	2SC139Y	1617
2SC103D	1617	2SC110K	1617	2SC115D	2030	2SC120A	1617	2SC127A	1617	2SC134B	1617	2SC140	2030
2SC103E	1617	2SC110L	1617	2SC115E	2030	2SC120B	1617	2SC127B	1617	2SC134C	1617	2SC140A	2030
2SC103F	1617	2SC110M	1617	2SC115F	2030	2SC120C	1617	2SC127C	1617	2SC134D	1617	2SC140C	2030
2SC103G	1617	2SC110OR	1617	2SC115G	2030	2SC120D	1617	2SC127D	1617	2SC134E	1617	2SC140D	2030
2SC103GN	1617	2SC110R	1617	2SC115GN	2030	2SC120E	1617	2SC127E	1617	2SC134F	1617	2SC140E	2030
2SC103H	1617	2SC110X	1617	2SC115H	2030	2SC120F	1617	2SC127F	1617	2SC134G	1617	2SC140F	2030
2SC103J	1617	2SC110Y	1617	2SC115J	2030	2SC120G	1617	2SC127G	1617	2SC134GN	1617	2SC140G	2030
2SC103K	1617	2SC111	1617	2SC115K	2030	2SC120GN	1617	2SC127GN	1617	2SC134H	1617	2SC140GN	2030
2SC103L	1617	2SC111A	1617	2SC115L	2030	2SC120H	1617	2SC127H	1617	2SC134J	1617	2SC140H	2030
2SC103M	1617	2SC111B	1617	2SC115M	2030	2SC120J	1617	2SC127J	1617	2SC134K	1617	2SC140J	2030
2SC103X	1617	2SC111C	1617	2SC115OR	2030	2SC120K	1617	2SC127K	1617	2SC134L	1617	2SC140K	2030
2SC103Y	1617	2SC111D	1617	2SC115R	2030	2SC120M	1617	2SC127L	1617	2SC134M	1617	2SC140L	2030

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2SC140M	2030	2SC152M	1617	2SC159M	1617	2SC171H	1617	2SC188B	2030	2SC193A	1617	2SC198	2041
2SC140OR	2030	2SC152OR	1617	2SC159OR	1617	2SC171J	1617	2SC188C	2030	2SC193B	1617	2SC198A	2041
2SC140R	2030	2SC152R	1617	2SC159R	1617	2SC171K	1617	2SC188D	2030	2SC193C	1617	2SC198H	2041
2SC140X	2030	2SC152X	1617	2SC159X	1617	2SC171L	1617	2SC188E	2030	2SC193D	1617	2SC199	1617
2SC140Y	2030	2SC152Y	1617	2SC159Y	1617	2SC171M	1617	2SC188F	2030	2SC193E	1617	2SC199A	1617
2SC141	2009	2SC153	2009	2SC160	1617	2SC171OR	1617	2SC188G	2030	2SC193F	1617	2SC199B	1617
2SC142	2009	2SC155	2016	2SC160A	1617	2SC171R	1617	2SC188GN	2030	2SC193G	1617	2SC199C	1617
2SC143	2009	2SC155A	2016	2SC160B	1617	2SC171X	1617	2SC188J	2030	2SC193GN	1617	2SC199D	1617
2SC144	2009	2SC155B	2016	2SC160C	1617	2SC171Y	1617	2SC188K	2030	2SC193H	1617	2SC199E	1617
2SC144A	2009	2SC155C	2016	2SC160D	1617	2SC172	1617	2SC188L	2030	2SC193J	1617	2SC199F	1617
2SC145	2009	2SC155D	2016	2SC160E	1617	2SC172A	1617	2SC188M	2030	2SC193K	1617	2SC199G	1617
2SC146	2009	2SC155E	2016	2SC160F	1617	2SC172B	1617	2SC188OR	2030	2SC193L	1617	2SC199GN	1617
2SC146A	2009	2SC155F	2016	2SC160G	1617	2SC172C	1617	2SC188R	2030	2SC193M	1617	2SC199H	1617
2SC148	2016	2SC155GN	2016	2SC160GN	1617	2SC172D	1617	2SC188X	2030	2SC193OR	1617	2SC199J	1617
2SC148A	2016	2SC155H	2016	2SC160H	1617	2SC172E	1617	2SC188Y	2030	2SC193R	1617	2SC199K	1617
2SC148B	2016	2SC155J	2016	2SC160J	1617	2SC172F	1617	2SC189	2030	2SC193X	1617	2SC199L	1617
2SC148D	2016	2SC155K	2016	2SC160K	1617	2SC172G	1617	2SC189A	2030	2SC194	1617	2SC199M	1617
2SC148E	2016	2SC155L	2016	2SC160L	1617	2SC172GN	1617	2SC189B	2030	2SC194A	1617	2SC199OR	1617
2SC148F	2016	2SC155M	2016	2SC160M	1617	2SC172H	1617	2SC189C	2030	2SC194B	1617	2SC199R	1617
2SC148G	2016	2SC155OR	2016	2SC160OR	1617	2SC172J	1617	2SC189D	2030	2SC194C	1617	2SC199X	1617
2SC148GN	2016	2SC155R	2016	2SC160R	1617	2SC172K	1617	2SC189E	2030	2SC194D	1617	2SC199Y	1617
2SC148H	2016	2SC155X	2016	2SC160X	1617	2SC172L	1617	2SC189F	2030	2SC194E	1617	2SC200	1617
2SC148J	2016	2SC155Y	2016	2SC160Y	1617	2SC172M	1617	2SC189G	2030	2SC194F	1617	2SC200A	1617
2SC148K	2016	2SC156	2016	2SC162	2009	2SC172OR	1617	2SC189GN	2030	2SC194G	1617	2SC200B	1617
2SC148L	2016	2SC156A	2016	2SC166	1617	2SC172R	1617	2SC189H	2030	2SC194GN	1617	2SC200C	1617
2SC148M	2016	2SC156B	2016	2SC166A	1617	2SC172Y	1617	2SC189J	2030	2SC194H	1617	2SC200D	1617
2SC148OR	2016	2SC156C	2016	2SC166B	1617	2SC174	1617	2SC189K	2030	2SC194J	1617	2SC200E	1617
2SC148R	2016	2SC156D	2016	2SC166C	1617	2SC174A	1617	2SC189L	2030	2SC194K	1617	2SC200F	1617
2SC148X	2016	2SC156E	2016	2SC166D	1617	2SC174B	1617	2SC189M	2030	2SC194L	1617	2SC200G	1617
2SC148Y	2016	2SC156F	2016	2SC166E	1617	2SC174C	1617	2SC189OR	2030	2SC194M	1617	2SC200GN	1617
2SC149	2030	2SC156G	2016	2SC166F	1617	2SC174D	1617	2SC189R	2030	2SC194OR	1617	2SC200H	1617
2SC150	2030	2SC156GN	2016	2SC166G	1617	2SC174E	1617	2SC189X	2030	2SC194X	1617	2SC200J	1617
2SC150 OR	2030	2SC156H	2016	2SC166GN	1617	2SC174F	1617	2SC189Y	2030	2SC194Y	1617	2SC200K	1617
2SC150A	2030	2SC156J	2016	2SC166H	1617	2SC174G	1617	2SC190	2030	2SC195	1617	2SC200L	1617
2SC150B	2030	2SC156K	2016	2SC166J	1617	2SC174GN	1617	2SC190A	2030	2SC195A	1617	2SC200M	1617
2SC150C	2030	2SC156L	2016	2SC166K	1617	2SC174H	1617	2SC190B	2030	2SC195B	1617	2SC200OR	1617
2SC150D	2030	2SC156M	2016	2SC166L	1617	2SC174J	1617	2SC190C	2030	2SC195C	1617	2SC200R	1617
2SC150E	2030	2SC156OR	2016	2SC166M	1617	2SC174K	1617	2SC190D	2030	2SC195D	1617	2SC200X	1617
2SC150F	2030	2SC156R	2016	2SC166OR	1617	2SC174L	1617	2SC190E	2030	2SC195E	1617	2SC200Y	1617
2SC150G	2030	2SC156X	2016	2SC166R	1617	2SC174M	1617	2SC190F	2030	2SC195F	1617	2SC201	1617
2SC150GN	2030	2SC156Y	2016	2SC166X	1617	2SC174OR	1617	2SC190GN	2030	2SC195G	1617	2SC201A	1617
2SC150H	2030	2SC157	1617	2SC166Y	1617	2SC174Q	1617	2SC190H	2030	2SC195GN	1617	2SC201B	1617
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2SC150L	2030	2SC157C	1617	2SC167B	1617	2SC174X	1617	2SC190L	2030	2SC195K	1617	2SC201E	1617
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2SC151HC	1617	2SC158E	1617	2SC170B	1617	2SC186X	2016	2SC191L	1617	2SC196K	1617	2SC202F	1617
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2SC152L	1617	2SC159L	1617	2SC171GN	1617	2SC188AB	2030	2SC193	1617	2SC197Y	1617	2SC204L	1617

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2SC204M	1617	2SC211J	2030	2SC220G	2030	2SC227G	2030	2SC238D	1617	2SC247A	2030	2SC263X	2016
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2SC205A	1617	2SC211X	2030	2SC220OR	2030	2SC227M	2030	2SC238J	1617	2SC247G	2030	2SC267B	1617
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2SC205G	1617	2SC212C	2030	2SC221A	2030	2SC228	2030	2SC238R	1617	2SC247M	2030	2SC267G	1617
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2SC208	2016	2SC216X	2030	2SC222R	2030	2SC234M	2030	2SC240J	2041	2SC249J	2030	2SC269A	2016
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2SC210GN	2030	2SC218F	2030	2SC226F	2030	2SC237C	1617	2SC242A	2041	2SC254	2030	2SC271H	2016
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2SC210K	2030	2SC218H	2030	2SC226H	2030	2SC237F	1617	2SC242D	2041	2SC263	2016	2SC271L	2016
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2SC211GN	2030	2SC220E	2030	2SC227E	2030	2SC238B	1617	2SC243	2041	2SC263OR	2016	2SC272GN	2016
2SC211H	2030	2SC220F	2030	2SC227F	2030	2SC238C	1617	2SC247	2030	2SC263R	2016	2SC272H	2016

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2SC272J	2016	2SC289	2016	2SC302M	1617	2SC310H	2030	2SC318C	1617	2SC344Y	2016	2SC353F	2030
2SC272K	2016	2SC289A	2016	2SC302OR	1617	2SC310J	2030	2SC318D	1617	2SC346	1617	2SC353G	2030
2SC272L	2016	2SC289B	2016	2SC302R	1617	2SC310K	2030	2SC318E	1617	2SC347	1617	2SC353GN	2030
2SC272M	2016	2SC289C	2016	2SC302X	1617	2SC310L	2030	2SC318F	1617	2SC348	1617	2SC353H	2030
2SC272OR	2016	2SC289D	2016	2SC302Y	1617	2SC310M	2030	2SC318G	1617	2SC348A	1617	2SC353J	2030
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2SC272Y	2016	2SC289G	2016	2SC306B	2030	2SC310X	2030	2SC318J	1617	2SC348D	1617	2SC353M	2030
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2SC281(B)	2009	2SC289K	2016	2SC306F	2030	2SC313-OR	2016	2SC318OR	1617	2SC348GN	1617	2SC353Y	2030
2SC281-OR	2009	2SC289L	2016	2SC306G	2030	2SC313A	2016	2SC318R	1617	2SC348H	1617	2SC356	2009
2SC281A	2009	2SC289M	2016	2SC306GN	2030	2SC313B	2016	2SC318X	1617	2SC348J	1617	2SC356A	2009
2SC281B	2009	2SC289OR	2016	2SC306H	2030	2SC313C	2016	2SC318Y	1617	2SC348K	1617	2SC356B	2009
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2SC281C	2009	2SC289X	2016	2SC306K	2030	2SC313E	2016	2SC321A	1617	2SC348M	1617	2SC356D	2009
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2SC281F	2009	2SC291C	2030	2SC306X	2030	2SC313J	2016	2SC321F	1617	2SC349R	2016	2SC356H	2009
2SC281G	2009	2SC291D	2030	2SC306Y	2030	2SC313K	2016	2SC321G	1617	2SC350	1617	2SC356J	2009
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2SC281L	2009	2SC291H	2030	2SC307C	2030	2SC313X	2016	2SC321HC	1617	2SC350E	1617	2SC356R	2009
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2SC281Y	2009	2SC291R	2030	2SC307GN	2030	2SC315C	1617	2SC321OR	1617	2SC350J	1617	2SC360A	1617
2SC282	1617	2SC291X	2030	2SC307H	2030	2SC315D	1617	2SC321R	1617	2SC350K	1617	2SC360B	1617
2SC282A	1617	2SC291Y	2030	2SC307J	2030	2SC315E	1617	2SC321X	1617	2SC350L	1617	2SC360C	1617
2SC282B	1617	2SC295	2009	2SC307K	2030	2SC315F	1617	2SC321Y	1617	2SC350M	1617	2SC360D	1617
2SC282C	1617	2SC296	2020	2SC307L	2030	2SC315G	1617	2SC322	2009	2SC350OR	1617	2SC360E	1617
2SC282D	1617	2SC297	2017	2SC307M	2030	2SC315GN	1617	2SC323	1617	2SC350R	1617	2SC360F	1617
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2SC282F	1617	2SC300A	1617	2SC307R	2030	2SC315J	1617	2SC323B	1617	2SC350Y	1617	2SC360GN	1617
2SC282G	1617	2SC300B	1617	2SC307X	2030	2SC315K	1617	2SC323C	1617	2SC351	2016	2SC360H	1617
2SC282GN	1617	2SC300C	1617	2SC307Y	2030	2SC315L	1617	2SC323D	1617	2SC351(FA)	2016	2SC360J	1617
2SC282H	1617	2SC300D	1617	2SC308	2030	2SC315M	1617	2SC323E	1617	2SC351A	2016	2SC360K	1617
2SC282J	1617	2SC300E	1617	2SC308A	2030	2SC315OR	1617	2SC323F	1617	2SC351B	2016	2SC360L	1617
2SC282K	1617	2SC300F	1617	2SC308B	2030	2SC315R	1617	2SC323G	1617	2SC351C	2016	2SC360M	1617
2SC282L	1617	2SC300G	1617	2SC308C	2030	2SC315X	1617	2SC323GN	1617	2SC351D	2016	2SC360OR	1617
2SC282M	1617	2SC300GN	1617	2SC308D	2030	2SC315Y	1617	2SC323H	1617	2SC351E	2016	2SC360R	1617
2SC282OR	1617	2SC300H	1617	2SC308E	2030	2SC316	1617	2SC323J	1617	2SC351F	2016	2SC360X	1617
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2SC282X	1617	2SC300K	1617	2SC308G	2030	2SC316B	1617	2SC323L	1617	2SC351G	2016	2SC361	2009
2SC282Y	1617	2SC300L	1617	2SC308GN	2030	2SC316C	1617	2SC323M	1617	2SC351GN	2016	2SC361A	2009
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2SC284A	1617	2SC300OR	1617	2SC308J	2030	2SC316E	1617	2SC323R	1617	2SC351J	2016	2SC361C	2009
2SC284B	1617	2SC300R	1617	2SC308K	2030	2SC316F	1617	2SC323X	1617	2SC351K	2016	2SC361D	2009
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2SC284E	1617	2SC301	1617	2SC308OR	2030	2SC316H	1617	2SC324(H)	1617	2SC351OR	2016	2SC361G	2009
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2SC284J	1617	2SC301E	1617	2SC309A	2030	2SC316OR	1617	2SC324E	1617	2SC352-OR	2009	2SC361L	2009
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2SC286B	2016	2SC301R	1617	2SC309K	2030	2SC317F	1617	2SC324OR	1617	2SC352H	2009	2SC362D	2009
2SC286C	2016	2SC301X	1617	2SC309L	2030	2SC317G	1617	2SC324R	1617	2SC352J	2009	2SC362E	2009
2SC286D	2016	2SC301Y	1617	2SC309M	2030	2SC317GN	1617	2SC324X	1617	2SC352K	2009	2SC362F	2009
2SC286E	2016	2SC302	1617	2SC309OR	2030	2SC317H	1617	2SC324Y	1617	2SC352L	2009	2SC362G	2009
2SC286F	2016	2SC302A	1617	2SC309R	2030	2SC317J	1617	2SC332	2009	2SC352M	2009	2SC362GN	2009
2SC286G	2016	2SC302B	1617	2SC309X	2030	2SC317K	1617	2SC333	1617	2SC352OR	2009	2SC362H	2009
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2SC286OR	2016	2SC302H	1617	2SC310E	2030	2SC318	1617	2SC342	2009	2SC353B	2030	2SC362X	2009
2SC286R	2016	2SC302J	1617	2SC310F	2030	2SC318A	1617	2SC343	1617	2SC353C	2030	2SC362Y	2009
2SC286X	2016	2SC302K	1617	2SC310G	2030	2SC318AB	1617	2SC344	2016	2SC353D	2030	2SC363	1617
2SC286Y	2016	2SC302L	1617	2SC310GN	2030	2SC318B	1617	2SC344(Y)	2016	2SC353E	2030	2SC363-OR	1617

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
2SC363A	1617	2SC369	2016	2SC371X	2009	2SC374OR	2016	2SC378GN	2009	2SC380V	2009	2SC383H	2009
2SC363B	1617	2SC369-BL	2016	2SC371Y	2009	2SC374R	2016	2SC378H	2009	2SC380X	2009	2SC383J	2009
2SC363C	1617	2SC369-BLU-G	2016	2SC372	2009	2SC374V	2016	2SC378J	2009	2SC380Y	2009	2SC383K	2009
2SC363D	1617	2SC369-GR	2016	2SC372(H)	2009	2SC374X	2016	2SC378K	2009	2SC380YEL	2009	2SC383L	2009
2SC363E	1617	2SC369-GRN-G	2016	2SC372(O)	2009	2SC374Y	2016	2SC378L	2009	2SC381	2016	2SC383M	2009
2SC363F	1617	2SC369-V	2016	2SC372(Y)	2009	2SC375	2016	2SC378M	2009	2SC381(BN)	2016	2SC383OR	2009
2SC363G	1617	2SC369A	2016	2SC372-0	2009	2SC375-0	2016	2SC378O	2009	2SC381-0	2016	2SC383R	2009
2SC363GN	1617	2SC369B	2016	2SC372-1	2009	2SC375-O	2016	2SC378OR	2009	2SC381-BN	2016	2SC383T	2009
2SC363H	1617	2SC369BL	2016	2SC372-2	2009	2SC375-Y	2016	2SC378R	2009	2SC381-BRN	2016	2SC383TM	2009
2SC363J	1617	2SC369C	2016	2SC372-O	2009	2SC375A	2016	2SC378X	2009	2SC381-O	2016	2SC383W	2009
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2SC363M	1617	2SC369F	2016	2SC372-ORG-G	2009	2SC375D	2016	2SC379A	2009	2SC381-R	2016	2SC384	2016
2SC363OR	1617	2SC369G	2016	2SC372-Y	2009	2SC375E	2016	2SC379B	2009	2SC381-RED	2016	2SC384(O)	2016
2SC363R	1617	2SC369G-BL	2016	2SC372-YEL-G	2009	2SC375F	2016	2SC379C	2009	2SC381A	2016	2SC384(Y)	2016
2SC363X	1617	2SC369G/GR	2016	2SC372A	2009	2SC375G	2016	2SC379D	2009	2SC381B	2016	2SC384-0	2016
2SC363Y	1617	2SC369G-BL	2016	2SC372AR	2009	2SC375GN	2016	2SC379E	2009	2SC381BN	2016	2SC384A	2016
2SC366	2009	2SC369GBL	2016	2SC372B	2009	2SC375H	2016	2SC379F	2009	2SC381BN-1	2016	2SC384B	2016
2SC366-0	2009	2SC369G-GR	2016	2SC372C	2009	2SC375J	2016	2SC379G	2009	2SC381C	2016	2SC384C	2016
2SC366-ORG-G	2009	2SC369GGR	2016	2SC372D	2009	2SC375K	2016	2SC379GN	2009	2SC381D	2016	2SC384D	2016
2SC366-RED-G	2009	2SC369GN	2016	2SC372E	2009	2SC375L	2016	2SC379H	2009	2SC381E	2016	2SC384E	2016
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2SC366G	2009	2SC369M	2016	2SC372K	2009	2SC376B	2009	2SC379X	2009	2SC381L	2016	2SC384L	2016
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2SC366H	2009	2SC369Y	2016	2SC372R	2009	2SC376G	2009	2SC380(Y)	2009	2SC381RED	2016	2SC384Y	2016
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2SC366K	2009	2SC370-0	2009	2SC372Y	2009	2SC376H	2009	2SC380-0/4454C	2009	2SC381X	2016	2SC385A	2016
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2SC366OR	2009	2SC370-T	2009	2SC372YEL-G	2009	2SC376L	2009	2SC380-O/4454C	2009	2SC382(BL)	2009	2SC385D	2016
2SC366X	2009	2SC370A	2009	2SC372Z	2009	2SC376M	2009	2SC380-OR	2009	2SC382(BN)	2009	2SC385E	2016
2SC367	2009	2SC370B	2009	2SC373	2009	2SC376OR	2009	2SC380-ORG	2009	2SC382(R)	2009	2SC385F	2016
2SC367-O	2009	2SC370C	2009	2SC373(GR)	2009	2SC376R	2009	2SC380-R	2009	2SC382-BK(1)	2009	2SC385G	2016
2SC367-ORG-G	2009	2SC370D	2009	2SC373-0	2009	2SC376X	2009	2SC380-RED	2009	2SC382-BK(2)	2009	2SC385GN	2016
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2SC367-RED-G	2009	2SC370F	2009	2SC373-G	2009	2SC377	2009	2SC380-YEL	2009	2SC382-GR	2009	2SC385J	2016
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2SC367-YEL-G	2009	2SC370GN	2009	2SC373-OR	2009	2SC377-BN	2009	2SC380A(D)	2009	2SC382-OR	2009	2SC385L	2016
2SC367A	2009	2SC370H	2009	2SC373A	2009	2SC377-BRN	2009	2SC380A(O)	2009	2SC382-R	2009	2SC385M	2016
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2SC367C	2009	2SC370J	2009	2SC373B	2009	2SC377-OR	2009	2SC380A(Y)	2009	2SC382A	2009	2SC385R	2016
2SC367D	2009	2SC370K	2009	2SC373C	2009	2SC377-ORG	2009	2SC380A+O)	2009	2SC382B	2009	2SC385X	2016
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2SC367G-O	2009	2SC370X	2009	2SC373GN	2009	2SC377BN	2009	2SC380A-O(TV)	2009	2SC382BN	2009	2SC386A-O(TV)	2016
2SC367G-R	2009	2SC370Y	2009	2SC373GR	2009	2SC377BRN	2009	2SC380A-R	2009	2SC382BR	2009	2SC386AO	2016
2SC367G-Y	2009	2SC371	2009	2SC373H	2009	2SC377C	2009	2SC380AR	2009	2SC382C	2009	2SC386B	2016
2SC367H	2009	2SC371(0)	2009	2SC373J	2009	2SC377D	2009	2SC380ATV	2009	2SC382D	2009	2SC386C	2016
2SC367J	2009	2SC371(O)	2009	2SC373K	2009	2SC377E	2009	2SC380A-Y	2009	2SC382E	2009	2SC386D	2016
2SC367K	2009	2SC371-0	2009	2SC373L	2009	2SC377F	2009	2SC380AY	2009	2SC382F	2009	2SC386E	2016
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2SC367M	2009	2SC371-OR	2009	2SC373OR	2009	2SC377GN	2009	2SC380B-Y	2009	2SC382GN	2009	2SC386G	2016
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2SC367X	2009	2SC371-RED-G	2009	2SC373X	2009	2SC377K	2009	2SC380C-Y	2009	2SC382H	2009	2SC386J	2016
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2SC368-BL	2016	2SC371B	2009	2SC374(BL)	2016	2SC377O	2009	2SC380D-Y	2009	2SC382L	2009	2SC386M	2016
2SC368-GR	2016	2SC371C	2009	2SC374(V)	2016	2SC377OR	2009	2SC380DY	2009	2SC382M	2009	2SC386OR	2016
2SC368A	2016	2SC371D	2009	2SC374-BL	2016	2SC377R	2009	2SC380E	2009	2SC382OR	2009	2SC386R	2016
2SC368B	2016	2SC371E	2009	2SC374-OR	2016	2SC377RED	2009	2SC380E-Y	2009	2SC382R	2009	2SC386X	2016
2SC368C	2016	2SC371F	2009	2SC374-V	2016	2SC377X	2009	2SC380EY	2009	2SC382V	2009	2SC386Y	2016
2SC368D	2016	2SC371G	2009	2SC374A	2016	2SC377Y	2009	2SC380F	2009	2SC382W	2009	2SC387	2016
2SC368E	2016	2SC371GN	2009	2SC374B	2016	2SC378	2009	2SC380F-Y	2009	2SC382W,B	2009	2SC387-G	2016
2SC368F	2016	2SC371G-O	2009	2SC374BL	2016	2SC378-O	2009	2SC380FY	2009	2SC382X	2009	2SC387-OR	2016
2SC368G	2016	2SC371G-R	2009	2SC374BLK	2016	2SC378-ORG	2009	2SC380G	2009	2SC382Y	2009	2SC387A	2016
2SC368GN	2016	2SC371H	2009	2SC374C	2016	2SC378-R	2009	2SC380GN	2009	2SC383	2009	2SC387A(FA-3)	2016
2SC368H	2016	2SC371J	2009	2SC374D	2016	2SC378-RED	2009	2SC380H	2009	2SC383(T)	2009	2SC387AG	2016
2SC368J	2016	2SC371K	2009	2SC374E	2016	2SC378-Y	2009	2SC380J	2009	2SC383-OR	2009	2SC387B	2016
2SC368K	2016	2SC371L	2009	2SC374F	2016	2SC378-YEL	2009	2SC380K	2009	2SC383A	2009	2SC387C	2016
2SC368L	2016	2SC371M	2009	2SC374G	2016	2SC378A	2009	2SC380L	2009	2SC383B	2009	2SC387D	2016
2SC368M	2016	2SC371O	2009	2SC374GN	2016	2SC378B	2009	2SC380M	2009	2SC383C	2009	2SC387E	2016
2SC368OR	2016	2SC371OR	2009	2SC374H	2016	2SC378C	2009	2SC380O	2009	2SC383D	2009	2SC387F	2016
2SC368R	2016	2SC371R	2009	2SC374J	2016	2SC378D	2009	2SC380OR	2009	2SC383E	2009	2SC387FA3	2016
2SC368V	2016	2SC371R-1	2009	2SC374K	2016	2SC378E	2009	2SC380R	2009	2SC383F	2009	2SC387G	2016
2SC368X	2016	2SC371RED-G	2009	2SC374L	2016	2SC378F	2009	2SC380RED	2009	2SC383G	2009	2SC387GN	2016
2SC368Y	2016	2SC371Y	2009	2SC374M	2016	2SC378G	2009	2SC380T	2009	2SC383GN	2009	2SC387H	2016

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2SC387J	2016	2SC394-R	2009	2SC398R	2009	2SC403B	2009	2SC423R	1617	2SC455R	2009	2SC460(A)	2009
2SC387K	2016	2SC394-RED	2009	2SC398X	2009	2SC403C	2009	2SC423X	1617	2SC455X	2009	2SC460(B)	2009
2SC387L	2016	2SC394-Y	2009	2SC398Y	2009	2SC403CG	2009	2SC423Y	1617	2SC455Y	2009	2SC460(C)	2009
2SC387M	2016	2SC394-YEL	2009	2SC399	2009	2SC403D	2009	2SC424	1617	2SC457	2009	2SC460-5	2009
2SC387OR	2016	2SC394A	2009	2SC399A	2009	2SC403E	2009	2SC424D	1617	2SC458	2009	2SC460-B	2009
2SC387R	2016	2SC394AP	2009	2SC399B	2009	2SC403F	2009	2SC425	1617	2SC458(A)	2009	2SC460-C	2009
2SC387X	2016	2SC394B	2009	2SC399C	2009	2SC403G	2009	2SC425A	1617	2SC458(B)	2009	2SC460-OR	2009
2SC387Y	2016	2SC394C	2009	2SC399D	2009	2SC403GN	2009	2SC425B	1617	2SC458(C)	2009	2SC460A	2009
2SC388	2009	2SC394D	2009	2SC399E	2009	2SC403H	2009	2SC425C	1617	2SC458(C,D)	2009	2SC460A2302-17	2009
2SC388-A	2009	2SC394E	2009	2SC399F	2009	2SC403J	2009	2SC425D	1617	2SC458(D)	2009	2SC460B	2009
2SC388-O	2009	2SC394F	2009	2SC399FA1	2009	2SC403K	2009	2SC425E	1617	2SC458(LG)	2009	2SC460BL	2009
2SC388-OR	2009	2SC394G	2009	2SC399G	2009	2SC403L	2009	2SC425F	1617	2SC458-4	2009	2SC460C	2009
2SC388A	2009	2SC394GN	2009	2SC399GN	2009	2SC403M	2009	2SC425G	1617	2SC458-5	2009	2SC460D	2009
2SC388A-TM	2009	2SC394GR	2009	2SC399H	2009	2SC403OR	2009	2SC425GN	1617	2SC458-B	2009	2SC460E	2009
2SC388ATM	2009	2SC394GRN	2009	2SC399J	2009	2SC403R	2009	2SC425H	1617	2SC458-C	2009	2SC460F	2009
2SC388ATMFA	2009	2SC394H	2009	2SC399K	2009	2SC403X	2009	2SC425K	1617	2SC458-D	2009	2SC460G	2009
2SC388B	2009	2SC394J	2009	2SC399L	2009	2SC403Y	2009	2SC425L	1617	2SC458-GR	2009	2SC460GB	2009
2SC388C	2009	2SC394K	2009	2SC399M	2009	2SC404	2009	2SC425M	1617	2SC458-O	2009	2SC460GN	2009
2SC388D	2009	2SC394L	2009	2SC399OR	2009	2SC404A	2009	2SC425OR	1617	2SC458-OR	2009	2SC460H	2009
2SC388E	2009	2SC394M	2009	2SC399R	2009	2SC404B	2009	2SC425R	1617	2SC458-Y	2009	2SC460J	2009
2SC388F	2009	2SC394O	2009	2SC399X	2009	2SC404C	2009	2SC425X	1617	2SC458A	2009	2SC460K	2009
2SC388FA	2009	2SC394OR	2009	2SC399Y	2009	2SC404D	2009	2SC425Y	1617	2SC458AD	2009	2SC460L	2009
2SC388G	2009	2SC394R	2009	2SC400	1617	2SC404E	2009	2SC426	2009	2SC458AK	2009	2SC460M	2009
2SC388GN	2009	2SC394RED	2009	2SC400-0	1617	2SC404F	2009	2SC427	2009	2SC458B	2009	2SC460OR	2009
2SC388H	2009	2SC394W	2009	2SC400-GR	1617	2SC404G	2009	2SC428	2009	2SC458BC	2009	2SC460R	2009
2SC388J	2009	2SC394X	2009	2SC400-O	1617	2SC404GN	2009	2SC433	2009	2SC458BD	2009	2SC460X	2009
2SC388K	2009	2SC394Y	2009	2SC400-R	1617	2SC404H	2009	2SC443	2030	2SC458BL	2009	2SC460Y	2009
2SC388L	2009	2SC394YEL	2009	2SC400-Y	1617	2SC404J	2009	2SC443A	2030	2SC458BM	2009	2SC461	2009
2SC388M	2009	2SC395	1617	2SC400A	1617	2SC404K	2009	2SC443B	2030	2SC458C	2009	2SC461(8F)	2009
2SC388OR	2009	2SC395A	1617	2SC400B	1617	2SC404L	2009	2SC443C	2030	2SC458C/L6	2009	2SC461-8F	2009
2SC388R	2009	2SC395A-O	1617	2SC400C	1617	2SC404M	2009	2SC443D	2030	2SC458CD	2009	2SC461-A	2009
2SC388TM	2009	2SC395A-ORG	1617	2SC400D	1617	2SC404OR	2009	2SC443E	2030	2SC458CL	2009	2SC461-B	2009
2SC388X	2009	2SC395A-R	1617	2SC400E	1617	2SC404R	2009	2SC443F	2030	2SC458CLG	2009	2SC461A	2009
2SC388Y	2009	2SC395A-RED	1617	2SC400F	1617	2SC404X	2009	2SC443G	2030	2SC458CM	2009	2SC461AL	2009
2SC389	2016	2SC395A-Y	1617	2SC400G	1617	2SC404Y	2009	2SC443GN	2030	2SC458D	2009	2SC461B	2009
2SC389-O	2016	2SC395A-YEL	1617	2SC400GN	1617	2SC405	1617	2SC443H	2030	2SC458E	2009	2SC461BF	2009
2SC389-OR	2016	2SC395B	1617	2SC400H	1617	2SC405A	1617	2SC443J	2030	2SC458F	2009	2SC461BK	2009
2SC389A	2016	2SC395C	1617	2SC400J	1617	2SC405B	1617	2SC443K	2030	2SC458G	2009	2SC461BL	2009
2SC389AFP	2016	2SC395D	1617	2SC400K	1617	2SC405C	1617	2SC443L	2030	2SC458GN	2009	2SC461C	2009
2SC389B	2016	2SC395E	1617	2SC400L	1617	2SC405D	1617	2SC443M	2030	2SC458H	2009	2SC461E	2009
2SC389BLB-O	2016	2SC395F	1617	2SC400M	1617	2SC405E	1617	2SC443OR	2030	2SC458J	2009	2SC461EP	2009
2SC389C	2016	2SC395G	1617	2SC400OR	1617	2SC405F	1617	2SC443R	2030	2SC458K	2009	2SC461F	2009
2SC389D	2016	2SC395GN	1617	2SC400R	1617	2SC405G	1617	2SC443X	2030	2SC458KB	2009	2SC461L	2009
2SC389E	2016	2SC395H	1617	2SC400X	1617	2SC405GN	1617	2SC443Y	2030	2SC458L	2009	2SC462	2009
2SC389F	2016	2SC395J	1617	2SC400Y	1617	2SC405H	1617	2SC454	2009	2SC458L(C)	2009	2SC463	2016
2SC389G	2016	2SC395K	1617	2SC401	2009	2SC405J	1617	2SC454(B)	2009	2SC458L6	2009	2SC463A	2016
2SC389GN	2016	2SC395L	1617	2SC401A	2009	2SC405K	1617	2SC454(C)	2009	2SC458LB	2009	2SC463B	2016
2SC389H	2016	2SC395M	1617	2SC401B	2009	2SC405L	1617	2SC454-3	2009	2SC458LC	2009	2SC463C	2016
2SC389J	2016	2SC395OR	1617	2SC401C	2009	2SC405M	1617	2SC454-5	2009	2SC458LD	2009	2SC463D	2016
2SC389K	2016	2SC395R	1617	2SC401D	2009	2SC405OR	1617	2SC454-C	2009	2SC458LG	2009	2SC463E	2016
2SC389L	2016	2SC395X	1617	2SC401E	2009	2SC405R	1617	2SC454-OR	2009	2SC458LG(B)	2009	2SC463F	2016
2SC389LP	2016	2SC395Y	1617	2SC401F	2009	2SC405X	1617	2SC454A	2009	2SC458LG(C)	2009	2SC463G	2016
2SC389M	2016	2SC397	2016	2SC401G	2009	2SC405Y	1617	2SC454B	2009	2SC458LG(D)	2009	2SC463GN	2016
2SC389O	2016	2SC397A	2016	2SC401GN	2009	2SC406	1617	2SC454B-6	2009	2SC458LGA	2009	2SC463H	2016
2SC389OR	2016	2SC397B	2016	2SC401H	2009	2SC406A	1617	2SC454BL	2009	2SC458LGB	2009	2SC463J	2016
2SC389P	2016	2SC397C	2016	2SC401J	2009	2SC406B	1617	2SC454C	2009	2SC458LGBM	2009	2SC463K	2016
2SC389R	2016	2SC397D	2016	2SC401K	2009	2SC406C	1617	2SC454D	2009	2SC458LGC	2009	2SC463L	2016
2SC389X	2016	2SC397E	2016	2SC401L	2009	2SC406D	1617	2SC454E	2009	2SC458LGC-6	2009	2SC463M	2016
2SC389Y	2016	2SC397F	2016	2SC401M	2009	2SC406E	1617	2SC454F	2009	2SC458LGD	2009	2SC463OR	2016
2SC391	2009	2SC397G	2016	2SC401OR	2009	2SC406F	1617	2SC454G	2009	2SC458LGO	2009	2SC463R	2016
2SC391A	2009	2SC397GN	2016	2SC401R	2009	2SC406G	1617	2SC454GN	2009	2SC458LGR	2009	2SC463X	2016
2SC391B	2009	2SC397H	2016	2SC401X	2009	2SC406GN	1617	2SC454H	2009	2SC458LGS	2009	2SC463Y	2016
2SC391C	2009	2SC397J	2016	2SC401Y	2009	2SC406H	1617	2SC454J	2009	2SC458M	2009	2SC467	2016
2SC391D	2009	2SC397K	2016	2SC402	2009	2SC406J	1617	2SC454K	2009	2SC458OR	2009	2SC468	1617
2SC391E	2009	2SC397L	2016	2SC402A	2009	2SC406K	1617	2SC454L	2009	2SC458R	2009	2SC468A	1617
2SC391F	2009	2SC397M	2016	2SC402B	2009	2SC406L	1617	2SC454LA	2009	2SC458RGS	2009	2SC468B	1617
2SC391G	2009	2SC397OR	2016	2SC402C	2009	2SC406M	1617	2SC454M	2009	2SC458X	2009	2SC468H	1617
2SC391GN	2009	2SC397R	2016	2SC402D	2009	2SC406OR	1617	2SC454OR	2009	2SC458Y	2009	2SC468LGR	1617
2SC391H	2009	2SC397X	2016	2SC402E	2009	2SC406R	1617	2SC454R	2009	2SC459	2009	2SC472	2058
2SC391J	2009	2SC397Y	2016	2SC402F	2009	2SC406X	1617	2SC454X	2009	2SC459A	2009	2SC472A	2058
2SC391K	2009	2SC398	2009	2SC402G	2009	2SC406Y	1617	2SC454Y	2009	2SC459B	2009	2SC472B	2058
2SC391L	2009	2SC398(FA-1)	2009	2SC402GN	2009	2SC423	1617	2SC455	2009	2SC459C	2009	2SC472C	2058
2SC391M	2009	2SC398A	2009	2SC402H	2009	2SC423-O	1617	2SC455-OR	2009	2SC459D	2009	2SC472D	2058
2SC391OR	2009	2SC398B	2009	2SC402J	2009	2SC423A	1617	2SC455A	2009	2SC459E	2009	2SC472E	2058
2SC391R	2009	2SC398C	2009	2SC402K	2009	2SC423B	1617	2SC455B	2009	2SC459F	2009	2SC472F	2058
2SC391X	2009	2SC398D	2009	2SC402L	2009	2SC423C	1617	2SC455C	2009	2SC459G	2009	2SC472G	2058
2SC391Y	2009	2SC398E	2009	2SC402M	2009	2SC423D	1617	2SC455D	2009	2SC459GN	2009	2SC472GN	2058
2SC393	2009	2SC398F	2009	2SC402OR	2009	2SC423E	1617	2SC455E	2009	2SC459H	2009	2SC472H	2058
2SC394	2009	2SC398FA1	2009	2SC402R	2009	2SC423F	1617	2SC455F	2009	2SC459J	2009	2SC472J	2058
2SC394(0)	2009	2SC398G	2009	2SC402X	2009	2SC423G	1617	2SC455G	2009	2SC459K	2009	2SC472K	2058
2SC394(O)	2009	2SC398GN	2009	2SC402Y	2009	2SC423GN	1617	2SC455GN	2009	2SC459L	2009	2SC472L	2058
2SC394-G	2009	2SC398H	2009	2SC403	2009	2SC423H	1617	2SC455H	2009	2SC459M	2009	2SC472M	2058
2SC394-GR	2009	2SC398J	2009	2SC403(C)	2009	2SC423J	1617	2SC455J	2009	2SC459OR	2009	2SC472OR	2058
2SC394-GRN	2009	2SC398K	2009	2SC403(SONY)	2009	2SC423K	1617	2SC455K	2009	2SC459R	2009	2SC472R	2058
2SC394-O	2009	2SC398L	2009	2SC403-OR	2009	2SC423L	1617	2SC455L	2009	2SC459X	2009	2SC472X	2058
2SC394-OR	2009	2SC398M	2009	2SC403A	2009	2SC423M	1617	2SC455M	2009	2SC459Y	2009	2SC472Y	2058
2SC394-ORG	2009	2SC398OR	2009	2SC403AL	2009	2SC423OR	1617	2SC455OR	2009	2SC460	2009	2SC473	1617

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2SC473AC	1617	2SC497-R	2030	2SC501-RED	2030	2SC516L	2030	2SC536FS	2009	2SC538A	1617	2SC560L	2030
2SC474	2009	2SC497-RED	2030	2SC501-Y	2030	2SC516M	2030	2SC536FS6	2009	2SC538A(Q)	1617	2SC560M	2030
2SC477	2016	2SC497-Y	2030	2SC501-YEL	2030	2SC516OR	2030	2SC536FZ	2009	2SC538A-P	1617	2SC560OR	2030
2SC477A	2016	2SC497-YEL	2030	2SC501A	2030	2SC516R	2030	2SC536G	2009	2SC538AQ	1617	2SC560R	2030
2SC477B	2016	2SC497A	2030	2SC501B	2030	2SC516X	2030	2SC536G-1	2009	2SC538A-R	1617	2SC560X	2030
2SC477C	2016	2SC497B	2030	2SC501C	2030	2SC516Y	2030	2SC536G1	2009	2SC538AR	1617	2SC560Y	2030
2SC477D	2016	2SC497C	2030	2SC501D	2030	2SC527	2016	2SC536G2	2009	2SC538AS	1617	2SC561	2016
2SC477E	2016	2SC497D	2030	2SC501E	2030	2SC528	2016	2SC536GF	2009	2SC538K	1617	2SC561-OR	2016
2SC477F	2016	2SC497E	2030	2SC501F	2030	2SC529	2009	2SC536GJ	2009	2SC538P	1617	2SC561A	2016
2SC477G	2016	2SC497F	2030	2SC501G	2030	2SC529A	2009	2SC536GK	2009	2SC538Q	1617	2SC561B	2016
2SC477GN	2016	2SC497G	2030	2SC501GN	2030	2SC529B	2009	2SC536GL	2009	2SC538R	1617	2SC561C	2016
2SC477H	2016	2SC497GN	2030	2SC501H	2030	2SC529C	2009	2SC536GM	2009	2SC538S	1617	2SC561D	2016
2SC477J	2016	2SC497H	2030	2SC501J	2030	2SC529D	2009	2SC536GN	2009	2SC538T	1617	2SC561E	2016
2SC477K	2016	2SC497J	2030	2SC501K	2030	2SC529E	2009	2SC536GP	2009	2SC539	1617	2SC561F	2016
2SC477L	2016	2SC497K	2030	2SC501L	2030	2SC529F	2009	2SC536GT	2009	2SC539(L)(K)	1617	2SC561G	2016
2SC477M	2016	2SC497L	2030	2SC501M	2030	2SC529G	2009	2SC536GV	2009	2SC539(R)	1617	2SC561GN	2016
2SC477OR	2016	2SC497M	2030	2SC501O	2030	2SC529GN	2009	2SC536GY	2009	2SC539R	1617	2SC561H	2016
2SC477R	2016	2SC497OR	2030	2SC501OR	2030	2SC529H	2009	2SC536GZ	2009	2SC539S	1617	2SC561J	2016
2SC477X	2016	2SC497R	2030	2SC501R	2030	2SC529J	2009	2SC536H	2009	2SC539T	1617	2SC561K	2016
2SC477Y	2016	2SC497RED	2030	2SC501X	2030	2SC529K	2009	2SC536J	2009	2SC541	2017	2SC561L	2016
2SC478	1617	2SC497X	2030	2SC501Y	2030	2SC529L	2009	2SC536K	2009	2SC542	2017	2SC561M	2016
2SC478(D)	1617	2SC497Y	2030	2SC503	2030	2SC529M	2009	2SC536K(G)	2009	2SC543	2020	2SC561OR	2016
2SC478-4	1617	2SC498	2030	2SC503-GR	2030	2SC529OR	2009	2SC536KE	2009	2SC543A	2020	2SC561R	2016
2SC478-O	1617	2SC498-0	2030	2SC503-O	2030	2SC529R	2009	2SC536KF	2009	2SC543B	2020	2SC561X	2016
2SC478A	1617	2SC498-O	2030	2SC503-Y	2030	2SC529X	2009	2SC536KNP	2009	2SC543C	2020	2SC561Y	2016
2SC478B	1617	2SC498-OR	2030	2SC503A	2030	2SC529Y	2009	2SC536KNPFT	2009	2SC543D	2020	2SC562	2016
2SC478C	1617	2SC498-ORG	2030	2SC503B	2030	2SC530	2009	2SC536KNP-T	2009	2SC543E	2020	2SC562(O)	2016
2SC478D	1617	2SC498-R	2030	2SC503C	2030	2SC531	2009	2SC536L	2009	2SC543F	2020	2SC562-OR	2016
2SC478E	1617	2SC498-RED	2030	2SC503D	2030	2SC532	2009	2SC536M	2009	2SC543G	2020	2SC562A	2016
2SC478F	1617	2SC498-Y	2030	2SC503E	2030	2SC532O	2009	2SC536NP	2009	2SC543GN	2020	2SC562B	2016
2SC478G	1617	2SC498-YEL	2030	2SC503F	2030	2SC533	2009	2SC536NP(E)	2009	2SC543H	2020	2SC562C	2016
2SC478GN	1617	2SC498A	2030	2SC503G	2030	2SC534	2009	2SC536NP(F)	2009	2SC543J	2020	2SC562D	2016
2SC478H	1617	2SC498B	2030	2SC503GN	2030	2SC535	2016	2SC536NP(G)	2009	2SC543K	2020	2SC562E	2016
2SC478J	1617	2SC498C	2030	2SC503GR	2030	2SC535(B)	2016	2SC536NPE	2009	2SC543L	2020	2SC562F	2016
2SC478K	1617	2SC498D	2030	2SC503H	2030	2SC535(C)	2016	2SC536NPF	2009	2SC543M	2020	2SC562G	2016
2SC478L	1617	2SC498E	2030	2SC503J	2030	2SC535-OR	2016	2SC536NPG	2009	2SC543OR	2020	2SC562GN	2016
2SC478M	1617	2SC498F	2030	2SC503K	2030	2SC535A	2016	2SC536NP-T	2009	2SC543R	2020	2SC562H	2016
2SC478OR	1617	2SC498G	2030	2SC503L	2030	2SC535ABC	2016	2SC536OR	2009	2SC543X	2020	2SC562J	2016
2SC478R	1617	2SC498GN	2030	2SC503M	2030	2SC535AL	2016	2SC536R	2009	2SC543Y	2020	2SC562K	2016
2SC478X	1617	2SC498H	2030	2SC503OR	2030	2SC535B	2016	2SC536SP	2009	2SC544	2016	2SC562L	2016
2SC478Y	1617	2SC498J	2030	2SC503R	2030	2SC535C	2016	2SC536SP(F)	2009	2SC544A	2016	2SC562M	2016
2SC479	2030	2SC498K	2030	2SC503X	2030	2SC535D	2016	2SC536SP(G)	2009	2SC544AG	2016	2SC562OR	2016
2SC479A	2030	2SC498L	2030	2SC504	2030	2SC535E	2016	2SC536W	2009	2SC544B	2016	2SC562R	2016
2SC479B	2030	2SC498M	2030	2SC504-GR	2030	2SC535F	2016	2SC536X	2009	2SC544C	2016	2SC562X	2016
2SC479C	2030	2SC498OR	2030	2SC504-O	2030	2SC535G	2016	2SC536XL	2009	2SC544D	2016	2SC562Y	2016
2SC479D	2030	2SC498R	2030	2SC504-Y	2030	2SC535GN	2016	2SC536Y	2009	2SC544D(VHF)	2016	2SC563	2016
2SC479E	2030	2SC498RED	2030	2SC504A	2030	2SC535H	2016	2SC536YF	2009	2SC544E	2016	2SC563(A)	2016
2SC479F	2030	2SC498X	2030	2SC504B	2030	2SC535J	2016	2SC537	2009	2SC544F	2016	2SC563-F	2016
2SC479G	2030	2SC498Y	2030	2SC504C	2030	2SC535K	2016	2SC537(F)	2009	2SC544G	2016	2SC563-G	2016
2SC479GN	2030	2SC498YEL	2030	2SC504D	2030	2SC535L	2016	2SC537(G)	2009	2SC544GN	2016	2SC563-OR	2016
2SC479H	2030	2SC499	2009	2SC504E	2030	2SC535M	2016	2SC537-C7	2009	2SC544H	2016	2SC563A	2016
2SC479J	2030	2SC499(A)	2009	2SC504F	2030	2SC535OR	2016	2SC537-EV	2009	2SC544J	2016	2SC563B	2016
2SC479K	2030	2SC499(R)	2009	2SC504G	2030	2SC535R	2016	2SC537ALC	2009	2SC544K	2016	2SC563C	2016
2SC479L	2030	2SC499(Y)	2009	2SC504GM	2030	2SC535X	2016	2SC537B	2009	2SC544L	2016	2SC563D	2016
2SC479M	2030	2SC499-OR	2009	2SC504GR	2030	2SC535Y	2016	2SC537BR	2009	2SC544M	2016	2SC563E	2016
2SC479OR	2030	2SC499-R	2009	2SC504H	2030	2SC536	2009	2SC537C	2009	2SC544OR	2016	2SC563F	2016
2SC479R	2030	2SC499-R(FA-1)	2009	2SC504J	2030	2SC536(C)	2009	2SC537C7	2009	2SC544R	2016	2SC563G	2016
2SC479X	2030	2SC499-RED	2009	2SC504K	2030	2SC536(D)	2009	2SC537D	2009	2SC544X	2016	2SC563GN	2016
2SC479Y	2030	2SC499-RY	2009	2SC504L	2030	2SC536(E)	2009	2SC537D1	2009	2SC544Y	2016	2SC563H	2016
2SC492	2041	2SC499-Y	2009	2SC504M	2030	2SC536(F)	2009	2SC537D2	2009	2SC545	2016	2SC563J	2016
2SC494	2041	2SC499-Y(FA-1)	2009	2SC504OR	2030	2SC536(G)	2009	2SC537E	2009	2SC545A	2016	2SC563K	2016
2SC494-BL	2041	2SC499-YEL	2009	2SC504R	2030	2SC536-D	2009	2SC537EF	2009	2SC545B	2016	2SC563L	2016
2SC494-R	2041	2SC499A	2009	2SC504X	2030	2SC536-E	2009	2SC537EH	2009	2SC545C	2016	2SC563M	2016
2SC494-Y	2041	2SC499B	2009	2SC509	2009	2SC536-F	2009	2SC537EJ	2009	2SC545D	2016	2SC563OR	2016
2SC494A	2041	2SC499C	2009	2SC509(0)	2009	2SC536-G	2009	2SC537EV	2009	2SC545E	2016	2SC563R	2016
2SC494B	2041	2SC499D	2009	2SC509(O)	2009	2SC536-OR	2009	2SC537F	2009	2SC546	2016	2SC563X	2016
2SC494BL	2041	2SC499E	2009	2SC509(Y)	2009	2SC536A	2009	2SC537F1	2009	2SC546K	2016	2SC563Y	2016
2SC494C	2041	2SC499F	2009	2SC509-0	2009	2SC536AF	2009	2SC537F2	2009	2SC548	2017	2SC564	1617
2SC494D	2041	2SC499FA1	2009	2SC509-O	2009	2SC536AG	2009	2SC537FC	2009	2SC550	2017	2SC564(Q)	2030
2SC494E	2041	2SC499G	2009	2SC509-Y	2009	2SC536B	2009	2SC537F-C7	2009	2SC550A	2017	2SC564(Q)(R)	2030
2SC494F	2041	2SC499GN	2009	2SC509G	2009	2SC536C	2009	2SC537FC7	2009	2SC551	2020	2SC564A	1617
2SC494G	2041	2SC499H	2009	2SC509G-O	2009	2SC536D	2009	2SC537FJ	2009	2SC552	2020	2SC564AP	1617
2SC494GN	2041	2SC499J	2009	2SC509G-Y	2009	2SC536DK	2009	2SC537FK	2009	2SC553	2020	2SC564B	1617
2SC494H	2041	2SC499K	2009	2SC509O	2009	2SC536E	2009	2SC537FV	2009	2SC554	2030	2SC564C	1617
2SC494J	2041	2SC499L	2009	2SC509Y	2009	2SC536ED	2009	2SC537G	2009	2SC556	2030	2SC564D	1617
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2SC494M	2041	2SC499R	2009	2SC516B	2030	2SC536EN	2009	2SC537GFL	2009	2SC560B	2030	2SC564G	1617
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2SC497-0	2030	2SC501	2030	2SC516GN	2030	2SC536F1	2009	2SC538(A)	1617	2SC560GN	2030	2SC564M	1617
2SC497-O	2030	2SC501-O	2030	2SC516H	2030	2SC536F2	2009	2SC538(P)	1617	2SC560H	2030	2SC564OR	1617
2SC497-OR	2030	2SC501-ORG	2030	2SC516J	2030	2SC536FC	2009	2SC538(R)	1617	2SC560J	2030	2SC564P	1617
2SC497-ORG	2030	2SC501-R	2030	2SC516K	2030	2SC536FP	2009	2SC538-Q	1617	2SC560K	2030	2SC564PL	1617

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2SC564Q	1617	2SC594G	1617	2SC613X	2016	2SC62[illegible]	1617	2SC634AL	2009	2SC644L	2016	2SC650L	2009
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2SC575	2030	2SC594Y	1617	2SC619D	2009	2SC629G	2058	2SC634J	2009	2SC644Y	2016	2SC655D	1617
2SC576	1617	2SC595	1617	2SC619E	2009	2SC629GN	2058	2SC634K	2009	2SC645	2016	2SC655E	1617
2SC576E	2009	2SC595A	1617	2SC619F	2009	2SC629H	2058	2SC634L	2009	2SC645(B)	2016	2SC655F	1617
2SC576F	2009	2SC595B	1617	2SC619G	2009	2SC629J	2058	2SC634M	2009	2SC645-OR	2016	2SC655G	1617
2SC576G	2009	2SC595C	1617	2SC619GN	2009	2SC629K	2058	2SC634OR	2009	2SC645A	2016	2SC655GN	1617
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2SC580A	2030	2SC595F	1617	2SC619K	2009	2SC629OR	2058	2SC634SP8	2009	2SC645C	2016	2SC655K	1617
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2SC580J	2030	2SC595X	1617	2SC620(D)	2009	2SC631E	2009	2SC641B	2009	2SC645K	2016	2SC657B	2016
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2SC662G	2016	2SC673B	2016	2SC687	2041	2SC694	2016	2SC710	2009	2SC713	2009	2SC717F	2016
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2SC662J	2016	2SC673D	2016	2SC687C	2041	2SC694C	2016	2SC710(D)	2009	2SC713C	2009	2SC717H	2016
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2SC664(C)	2041	2SC682H	2016	2SC688L	2058	2SC705K	2016	2SC710X	2009	2SC714H	2009	2SC732-V10	2016
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2SC733GN	2016	2SC735M	2009	2SC752B	2009	2SC767	2041	2SC784(R)	2058	2SC786L	2016	2SC794L	2041
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2SC735E	2009	2SC748M	2016	2SC763J	2016	2SC773H	2009	2SC786A	2016	2SC794A	2041	2SC815J	2009
2SC735F	2009	2SC748OR	2016	2SC763K	2016	2SC773J	2009	2SC786B	2016	2SC794B	2041	2SC815K	2009
2SC735FA3	2009	2SC748R	2016	2SC763L	2016	2SC773K	2009	2SC786C	2016	2SC794C	2041	2SC815K,L	2009
2SC735G	2009	2SC748X	2016	2SC763M	2016	2SC773L	2009	2SC786D	2016	2SC794D	2041	2SC815L	2009
2SC735GN	2009	2SC748Y	2016	2SC763OR	2016	2SC773M	2009	2SC786E	2016	2SC794E	2041	2SC815LJ	2009
2SC735GR	2009	2SC751	2016	2SC763R	2016	2SC773OR	2009	2SC786F	2016	2SC794F	2041	2SC815M	2009
2SC735GRN	2009	2SC752	2009	2SC763S	2016	2SC773R	2009	2SC786G	2016	2SC794G	2041	2SC815OR	2009
2SC735H	2009	2SC752-ORG-G	2009	2SC763X	2016	2SC773X	2009	2SC786GN	2016	2SC794GN	2041	2SC815R	2009
2SC735J	2009	2SC752-RED-G	2009	2SC763Y	2016	2SC773Y	2009	2SC786H	2016	2SC794H	2041	2SC815S	2009
2SC735K	2009	2SC752-YEL-G	2009	2SC764	2009	2SC784	2058	2SC786J	2016	2SC794J	2041	2SC815SA	2009
2SC735L	2009	2SC752A	2009	2SC766	2041	2SC784(BN)	2058	2SC786K	2016	2SC794K	2041	2SC815SC	2009

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2SC815X	2009	2SC828GN	2009	2SC838(O)	2009	2SC849H	1617	2SC863A	2016	2SC875K	2030	2SC899D	1617
2SC815Y	2009	2SC828H	2009	2SC838-2	2009	2SC849J	1617	2SC863B	2016	2SC875L	2030	2SC899E	1617
2SC816	2030	2SC828HR	2009	2SC838-O	2009	2SC849K	1617	2SC863C	2016	2SC875M	2030	2SC899F	1617
2SC816A	2030	2SC828K	2009	2SC838A	2009	2SC849L	1617	2SC863D	2016	2SC875OR	2030	2SC899G	1617
2SC816B	2030	2SC828L	2009	2SC838BL	2009	2SC849M	1617	2SC863E	2016	2SC875X	2030	2SC899GN	1617
2SC816C	2030	2SC828LS	2009	2SC838C	2009	2SC849OR	1617	2SC863F	2016	2SC875Y	2030	2SC899H	1617
2SC816D	2030	2SC828M	2009	2SC838E	2009	2SC849R	1617	2SC863G	2016	2SC876	2030	2SC899J	1617
2SC816E	2030	2SC828OR	2009	2SC838F	2009	2SC849X	1617	2SC863GN	2016	2SC876(F)	2030	2SC899K	1617
2SC816F	2030	2SC828P	2009	2SC838H	2009	2SC849Y	1617	2SC863H	2016	2SC876-E	2030	2SC899L	1617
2SC816G	2030	2SC828PQ	2009	2SC838HF	2009	2SC850	1617	2SC863J	2016	2SC876-F	2030	2SC899M	1617
2SC816GN	2030	2SC828Q	2009	2SC838I	2009	2SC850A	1617	2SC863K	2016	2SC876A	2030	2SC899OR	1617
2SC816H	2030	2SC828Q-6	2009	2SC838J	2009	2SC850B	1617	2SC863L	2016	2SC876B	2030	2SC899R	1617
2SC816K	2030	2SC828QRS	2009	2SC838K	2009	2SC850C	1617	2SC863M	2016	2SC876C	2030	2SC899X	1617
2SC816L	2030	2SC828R	2009	2SC838L	2009	2SC850D	1617	2SC863OR	2016	2SC876D	2030	2SC899Y	1617
2SC816M	2030	2SC828R-1	2009	2SC838M	2009	2SC850E	1617	2SC863R	2016	2SC876E	2030	2SC900	2016
2SC816OR	2030	2SC828RA	2009	2SC839	2009	2SC850F	1617	2SC863X	2016	2SC876F	2030	2SC900(E)	2016
2SC816R	2030	2SC828RH	2009	2SC839(F)	2009	2SC850G	1617	2SC863Y	2016	2SC876G	2030	2SC900(E)(L)	2016
2SC816X	2030	2SC828RS	2009	2SC839(H)	2009	2SC850GN	1617	2SC864	2016	2SC876GN	2030	2SC900(F)	2016
2SC816Y	2030	2SC828RST	2009	2SC839(J)	2009	2SC850H	1617	2SC870	2009	2SC876H	2030	2SC900(U)	2016
2SC826	2030	2SC828RT	2009	2SC839(JI)	2009	2SC850J	1617	2SC870A	2009	2SC876J	2030	2SC900-OR	2016
2SC826A	2030	2SC828S	2009	2SC839(L)	2009	2SC850K	1617	2SC870B	2009	2SC876K	2030	2SC900A	2016
2SC826B	2030	2SC828T	2009	2SC839(M)	2009	2SC850L	1617	2SC870C	2009	2SC876L	2030	2SC900AJ	2016
2SC826C	2030	2SC828X	2009	2SC839-E	2009	2SC850M	1617	2SC870D	2009	2SC876M	2030	2SC900B	2016
2SC826D	2030	2SC828Y	2009	2SC839-F	2009	2SC850OR	1617	2SC870E	2009	2SC876OR	2030	2SC900C	2016
2SC826E	2030	2SC828YL	2009	2SC839A	2009	2SC850R	1617	2SC870F	2009	2SC876R	2030	2SC900D	2016
2SC826F	2030	2SC829	2009	2SC839B	2009	2SC850X	1617	2SC870FL	2009	2SC876TV	2030	2SC900E	2016
2SC826G	2030	2SC829(B)	2009	2SC839C	2009	2SC850Y	1617	2SC870G	2009	2SC876TV(D)	2030	2SC900F	2016
2SC826H	2030	2SC829(C)	2009	2SC839D	2009	2SC858	2016	2SC870GN	2009	2SC876TV(E)	2030	2SC900G	2016
2SC826J	2030	2SC829(Y)	2009	2SC839E	2009	2SC858A	2016	2SC870H	2009	2SC876TVD	2030	2SC900J	2016
2SC826K	2030	2SC829/4454C	2009	2SC839F	2009	2SC858B	2016	2SC870J	2009	2SC876TV-E	2030	2SC900K	2016
2SC826L	2030	2SC829-OR	2009	2SC839G	2009	2SC858C	2016	2SC870K	2009	2SC876TVE	2030	2SC900L	2016
2SC826M	2030	2SC829A	2009	2SC839GN	2009	2SC858D	2016	2SC870L	2009	2SC876TVEF	2030	2SC900M	2016
2SC826OR	2030	2SC829AK	2009	2SC839H	2009	2SC858E	2016	2SC870M	2009	2SC876TV-F	2030	2SC900OR	2016
2SC826R	2030	2SC829B	2009	2SC839J	2009	2SC858F	2016	2SC870OR	2009	2SC876TVF	2030	2SC900R	2016
2SC826X	2030	2SC829BC	2009	2SC839J1	2009	2SC858FG	2016	2SC870R	2009	2SC876X	2030	2SC900S	2016
2SC826Y	2030	2SC829BJ	2009	2SC839JH	2009	2SC858G	2016	2SC870X	2009	2SC876Y	2030	2SC900SA	2016
2SC827	2030	2SC829BK	2009	2SC839K	2009	2SC858GA	2016	2SC870Y	2009	2SC877	1617	2SC900SB	2016
2SC827A	2030	2SC829C	2009	2SC839L	2009	2SC858GN	2016	2SC871	2009	2SC878	1617	2SC900SC	2016
2SC827B	2030	2SC829CL	2009	2SC839M	2009	2SC858H	2016	2SC871(F)	2009	2SC879	2016	2SC900SD	2016
2SC827C	2030	2SC829D	2009	2SC839OR	2009	2SC858J	2016	2SC871-G	2009	2SC883	2020	2SC900U	2016
2SC827D	2030	2SC829F	2009	2SC839R	2009	2SC858K	2016	2SC871A	2009	2SC889	2041	2SC900UF	2016
2SC827E	2030	2SC829G	2009	2SC839X	2009	2SC858L	2016	2SC871AM	2009	2SC892	2020	2SC900V	2016
2SC827F	2030	2SC829GN	2009	2SC839Y	2009	2SC858M	2016	2SC871B	2009	2SC894	2009	2SC900VE	2016
2SC827G	2030	2SC829H	2009	2SC847	1617	2SC858OR	2016	2SC871C	2009	2SC894A	2009	2SC900X	2016
2SC827GN	2030	2SC829K	2009	2SC847A	1617	2SC858R	2016	2SC871D	2009	2SC894B	2009	2SC900Y	2016
2SC827H	2030	2SC829L	2009	2SC847B	1617	2SC858X	2016	2SC871E	2009	2SC894C	2009	2SC903	2009
2SC827J	2030	2SC829M	2009	2SC847C	1617	2SC858Y	2016	2SC871F	2009	2SC894D	2009	2SC904	2009
2SC827K	2030	2SC829OR	2009	2SC847D	1617	2SC859	2016	2SC871G	2009	2SC894E	2009	2SC906	1617
2SC827M	2030	2SC829R	2009	2SC847E	1617	2SC859A	2016	2SC871GN	2009	2SC894F	2009	2SC906(F)	1617
2SC827OR	2030	2SC829X	2009	2SC847F	1617	2SC859B	2016	2SC871H	2009	2SC894G	2009	2SC906F	1617
2SC827R	2030	2SC829Y	2009	2SC847G	1617	2SC859D	2016	2SC871J	2009	2SC894GN	2009	2SC907	1617
2SC827X	2030	2SC831	2020	2SC847GN	1617	2SC859E	2016	2SC871K	2009	2SC894H	2009	2SC907A	1617
2SC827Y	2030	2SC835	2016	2SC847H	1617	2SC859F	2016	2SC871L	2009	2SC894J	2009	2SC907AC	1617
2SC828	2009	2SC836	2016	2SC847J	1617	2SC859FG	2016	2SC871M	2009	2SC894K	2009	2SC907AD	1617
2SC828(A)	2009	2SC836M	2016	2SC847K	1617	2SC859G	2016	2SC871OR	2009	2SC894L	2009	2SC907AH	1617
2SC828(H)	2009	2SC837	2058	2SC847L	1617	2SC859GK	2016	2SC871R	2009	2SC894M	2009	2SC907B	1617
2SC828(N)	2009	2SC837(K)	2058	2SC847M	1617	2SC859GL	2016	2SC871X	2009	2SC894OR	2009	2SC907C	1617
2SC828(O)	2009	2SC837(KL)	2058	2SC847OR	1617	2SC859GM	2016	2SC871Y	2009	2SC894R	2009	2SC907D	1617
2SC828(P)	2009	2SC837(L)	2058	2SC847R	1617	2SC859GN	2016	2SC875	2030	2SC894X	2009	2SC907E	1617
2SC828(P)(Q)	2009	2SC837A	2058	2SC847X	1617	2SC859H	2016	2SC875(D)	2030	2SC894Y	2009	2SC907F	1617
2SC828(Q)	2009	2SC837B	2058	2SC848	1617	2SC859J	2016	2SC875(E)	2030	2SC896	1617	2SC907G	1617
2SC828(R)	2009	2SC837C	2058	2SC848A	1617	2SC859K	2016	2SC875(F)	2030	2SC896A	1617	2SC907GN	1617
2SC828(R)(Q)	2009	2SC837D	2058	2SC848B	1617	2SC859L	2016	2SC875-1	2030	2SC896B	1617	2SC907H	1617
2SC828(R)(S)	2009	2SC837E	2058	2SC848C	1617	2SC859M	2016	2SC875-1C	2030	2SC896C	1617	2SC907HA	1617
2SC828(R,Q,P)	2009	2SC837F	2058	2SC848D	1617	2SC859OR	2016	2SC875-1D	2030	2SC896D	1617	2SC907J	1617
2SC828(R,S,T)	2009	2SC837G	2058	2SC848E	1617	2SC859R	2016	2SC875-1E	2030	2SC896E	1617	2SC907K	1617
2SC828(S)	2009	2SC837GN	2058	2SC848F	1617	2SC859X	2016	2SC875-1F	2030	2SC896F	1617	2SC907L	1617
2SC828(S)(T)	2009	2SC837H	2058	2SC848G	1617	2SC859Y	2016	2SC875-2	2030	2SC896G	1617	2SC907M	1617
2SC828(T)	2009	2SC837J	2058	2SC848GN	1617	2SC860	2016	2SC875-2C	2030	2SC896GN	1617	2SC907OR	1617
2SC828-0	2009	2SC837K	2058	2SC848H	1617	2SC860A	2016	2SC875-2D	2030	2SC896J	1617	2SC907R	1617
2SC828-O	2009	2SC837KL	2058	2SC848J	1617	2SC860B	2016	2SC875-2E	2030	2SC896K	1617	2SC907X	1617
2SC828-OR	2009	2SC837L	2058	2SC848K	1617	2SC860C	2016	2SC875-2F	2030	2SC896L	1617	2SC907Y	1617
2SC828A	2009	2SC837M	2058	2SC848L	1617	2SC860D	2016	2SC875-3	2030	2SC896M	1617	2SC909	2017
2SC828A(P)	2009	2SC837OR	2058	2SC848M	1617	2SC860E	2016	2SC875-3C	2030	2SC896OR	1617	2SC911	2017
2SC828A(Q)	2009	2SC837R	2058	2SC848OR	1617	2SC860F	2016	2SC875-3D	2030	2SC896R	1617	2SC911A	2017
2SC828A(R)	2009	2SC837WF	2058	2SC848R	1617	2SC860G	2016	2SC875-3E	2030	2SC896X	1617	2SC912	2016
2SC828A(S)	2009	2SC837X	2058	2SC848X	1617	2SC860GN	2016	2SC875-3F	2030	2SC896Y	1617	2SC912M	1617
2SC828AO	2009	2SC837Y	2058	2SC848Y	1617	2SC860H	2016	2SC875B	2030	2SC897	2041	2SC914	1617
2SC828AQ	2009	2SC838	2009	2SC849	1617	2SC860J	2016	2SC875C	2030	2SC897A	2041	2SC914A	1617
2SC828AR	2009	2SC838(A)	2009	2SC849A	1617	2SC860K	2016	2SC875D	2030	2SC897B	2041	2SC915	1617
2SC828AS	2009	2SC838(E)	2009	2SC849B	1617	2SC860L	2016	2SC875DL	2030	2SC898	2041	2SC915A	1617
2SC828B	2009	2SC838(F)	2009	2SC849C	1617	2SC860M	2016	2SC875E	2030	2SC898A	2041	2SC916	2020
2SC828C	2009	2SC838(H)	2009	2SC849D	1617	2SC860OR	2016	2SC875EL	2030	2SC898B	2041	2SC917	2016
2SC828D	2009	2SC838(J)	2009	2SC849E	1617	2SC860R	2016	2SC875F	2030	2SC899	1617	2SC917(K)	2016
2SC828E	2009	2SC838(K)	2009	2SC849F	1617	2SC860X	2016	2SC875G	2030	2SC899A	1617	2SC917A	2016
2SC828F	2009	2SC838(L)	2009	2SC849G	1617	2SC860Y	2016	2SC875GN	2030	2SC899B	1617	2SC917B	2016
2SC828G	2009	2SC838(M)	2009	2SC849GN	1617	2SC863	2016	2SC875J	2030	2SC899C	1617	2SC917C	2016

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2SC917D	2016	2SC923(E)	2016	2SC928	2016	2SC930M	2016	2SC936L	2055	2SC945A(Q)	2009	2SC957B	2016
2SC917E	2016	2SC923(E)(F)	2016	2SC928A	2016	2SC930NP	2016	2SC936M	2055	2SC945A(Q.R)	2009	2SC957C	2016
2SC917F	2016	2SC923(F)	2016	2SC928B	2016	2SC930OR	2016	2SC936OR	2055	2SC945A(R)	2009	2SC957D	2016
2SC917G	2016	2SC923A	2016	2SC928C	2016	2SC930R	2016	2SC936R	2055	2SC945A/D	2009	2SC957E	2016
2SC917GN	2016	2SC923B	2016	2SC928D	2016	2SC930SP	2016	2SC936X	2055	2SC945AK	2009	2SC957F	2016
2SC917H	2016	2SC923C	2016	2SC928E	2016	2SC930X	2016	2SC936Y	2055	2SC945AKT	2009	2SC957G	2016
2SC917J	2016	2SC923D	2016	2SC928F	2016	2SC930Y	2016	2SC938	2009	2SC945AP	2009	2SC957GN	2016
2SC917K	2016	2SC923E	2016	2SC928G	2016	2SC932	2017	2SC938-O	2009	2SC945APT	2009	2SC957H	2016
2SC917L	2016	2SC923F	2016	2SC928GN	2016	2SC932(E)	2017	2SC938A	2009	2SC945AQ	2009	2SC957J	2016
2SC917M	2016	2SC923G	2016	2SC928H	2016	2SC932A	2017	2SC938B	2009	2SC945AR	2009	2SC957K	2016
2SC917OR	2016	2SC923GN	2016	2SC928J	2016	2SC932B	2017	2SC938C	2009	2SC945B	2009	2SC957L	2016
2SC917R	2016	2SC923H	2016	2SC928K	2016	2SC932BK	2017	2SC938D	2009	2SC945C	2009	2SC957M	2016
2SC917X	2016	2SC923K	2016	2SC928L	2016	2SC932C	2017	2SC938E	2009	2SC945D	2009	2SC957OR	2016
2SC917Y	2016	2SC923L	2016	2SC928M	2016	2SC932D	2017	2SC938F	2009	2SC945E	2009	2SC957R	2016
2SC918	2058	2SC923M	2016	2SC928OR	2016	2SC932E	2017	2SC938G	2009	2SC945F	2009	2SC957X	2016
2SC918A	2058	2SC923OR	2016	2SC928R	2016	2SC932F	2017	2SC938GN	2009	2SC945G	2009	2SC957XL	2016
2SC918AL	2058	2SC923R	2016	2SC928X	2016	2SC932G	2017	2SC938H	2009	2SC945GN	2009	2SC957Y	2016
2SC918B	2058	2SC923X	2016	2SC928Y	2016	2SC932GN	2017	2SC938J	2009	2SC945H	2009	2SC959	2030
2SC918C	2058	2SC923Y	2016	2SC929	2016	2SC932H	2017	2SC938K	2009	2SC945J	2009	2SC959A	2030
2SC918D	2058	2SC924	2016	2SC929(0)	2016	2SC932J	2017	2SC938L	2009	2SC945K	2009	2SC959B	2030
2SC918E	2058	2SC924A	2016	2SC929(E)	2016	2SC932K	2017	2SC938M	2009	2SC945L	2009	2SC959C	2030
2SC918F	2058	2SC924B	2016	2SC929-0	2016	2SC932L	2017	2SC938OR	2009	2SC945LP	2009	2SC959D	2030
2SC918G	2058	2SC924C	2016	2SC929-O	2016	2SC932M	2017	2SC938R	2009	2SC945LQ	2009	2SC959E	2030
2SC918GN	2058	2SC924D	2016	2SC929A	2016	2SC932OR	2017	2SC938X	2009	2SC945M	2009	2SC959F	2030
2SC918H	2058	2SC924E	2016	2SC929B	2016	2SC932R	2017	2SC938Y	2009	2SC945OR	2009	2SC959G	2030
2SC918J	2058	2SC924F	2016	2SC929C	2016	2SC932X	2017	2SC941	2009	2SC945P	2009	2SC959GN	2030
2SC918K	2058	2SC924G	2016	2SC929C1	2016	2SC932Y	2017	2SC941(O)	2009	2SC945P1	2009	2SC959H	2030
2SC918L	2058	2SC924GN	2016	2SC929D	2016	2SC933	2009	2SC941(O),(R)	2009	2SC945PJ	2009	2SC959J	2030
2SC918LF	2058	2SC924H	2016	2SC929D1	2016	2SC933(D)	2009	2SC941(R)	2009	2SC945PQ	2009	2SC959K	2030
2SC918M	2058	2SC924J	2016	2SC929DE	2016	2SC933(F)	2009	2SC941-04	2009	2SC945Q	2009	2SC959L	2030
2SC918OR	2058	2SC924K	2016	2SC929DP	2016	2SC933(G)	2009	2SC941-0Y	2009	2SC945QL	2009	2SC959M	2030
2SC918R	2058	2SC924L	2016	2SC929DU	2016	2SC933A	2009	2SC941-O	2009	2SC945QP	2009	2SC959OR	2030
2SC918X	2058	2SC924M	2016	2SC929DV	2016	2SC933B	2009	2SC941-R	2009	2SC945R	2009	2SC959R	2030
2SC918XL	2058	2SC924OR	2016	2SC929E	2016	2SC933BB	2009	2SC941-TM.O.JA	2009	2SC945RA	2009	2SC959S	2030
2SC918Y	2058	2SC924R	2016	2SC929ED	2016	2SC933C	2009	2SC941-Y	2009	2SC945S	2009	2SC959SA	2030
2SC920	2058	2SC924X	2016	2SC929EZ	2016	2SC933D	2009	2SC941K	2009	2SC945T	2009	2SC959SB	2030
2SC920-0Q	2058	2SC924Y	2016	2SC929F	2016	2SC933D(F)	2009	2SC941O	2009	2SC945TK	2009	2SC959SC	2030
2SC920-OR	2058	2SC925	2009	2SC929FK	2016	2SC933E	2009	2SC941R	2009	2SC945TP	2009	2SC959SD	2030
2SC920A	2058	2SC925(M)	2009	2SC929G	2016	2SC933E(F)	2009	2SC941TM	2009	2SC945TQ	2009	2SC959X	2030
2SC920B	2058	2SC925A	2009	2SC929GN	2016	2SC933F	2009	2SC941TM-O	2009	2SC945X	2009	2SC959Y	2030
2SC920C	2058	2SC925B	2009	2SC929H	2016	2SC933FB	2009	2SC941Y	2009	2SC945Y	2009	2SC963	1617
2SC920CL	2058	2SC925C	2009	2SC929J	2016	2SC933FP	2009	2SC942	1617	2SC947	2016	2SC964	1617
2SC920D	2058	2SC925D	2009	2SC929K	2016	2SC933G	2009	2SC943	1617	2SC947A	2016	2SC965	1617
2SC920E	2058	2SC925E	2009	2SC929L	2016	2SC933GN	2009	2SC943A	1617	2SC947B	2016	2SC966	1617
2SC920F	2058	2SC925F	2009	2SC929M	2016	2SC933H	2009	2SC943B	1617	2SC947C	2016	2SC966A	1617
2SC920G	2058	2SC925G	2009	2SC929NP	2016	2SC933J	2009	2SC943C	1617	2SC947D	2016	2SC966B	1617
2SC920GN	2058	2SC925GN	2009	2SC929OR	2016	2SC933K	2009	2SC943D	1617	2SC947E	2016	2SC966C	1617
2SC920H	2058	2SC925H	2009	2SC929R	2016	2SC933L	2009	2SC943E	1617	2SC947F	2016	2SC966D	1617
2SC920L	2058	2SC925J	2009	2SC929SP	2016	2SC933M	2009	2SC943F	1617	2SC947G	2016	2SC966E	1617
2SC920M	2058	2SC925K	2009	2SC929X	2016	2SC933OR	2009	2SC943G	1617	2SC947GN	2016	2SC966F	1617
2SC920OR	2058	2SC925L	2009	2SC929Y	2016	2SC933R	2009	2SC943GN	1617	2SC947H	2016	2SC966G	1617
2SC920Q	2058	2SC925M	2009	2SC930	2016	2SC933X	2009	2SC943H	1617	2SC947J	2016	2SC966GN	1617
2SC920R	2058	2SC925OR	2009	2SC930(C)	2016	2SC933Y	2009	2SC943J	1617	2SC947K	2016	2SC966H	1617
2SC920X	2058	2SC925R	2009	2SC930(D)	2016	2SC934	1617	2SC943K	1617	2SC947L	2016	2SC966J	1617
2SC920Y	2058	2SC925X	2009	2SC930(E)	2016	2SC934-O	1617	2SC943L	1617	2SC947M	2016	2SC966K	1617
2SC921	2016	2SC925Y	2009	2SC930(F)	2016	2SC934A	1617	2SC943M	1617	2SC947OR	2016	2SC966L	1617
2SC921(L)	2016	2SC927	2016	2SC930-OR	2016	2SC934B	1617	2SC943OR	1617	2SC947R	2016	2SC966M	1617
2SC921(VHF)	2016	2SC927(C)	2016	2SC930A	2016	2SC934C	1617	2SC943R	1617	2SC947X	2016	2SC966OR	1617
2SC921A	2016	2SC927(D)	2016	2SC930B	2016	2SC934D	1617	2SC943X	1617	2SC947Y	2016	2SC966R	1617
2SC921B	2016	2SC927(E)	2016	2SC930BK	2016	2SC934E	1617	2SC943Y	1617	2SC948	2016	2SC966X	1617
2SC921C	2016	2SC927A	2016	2SC930C	2016	2SC934F	1617	2SC944	2009	2SC948A	2016	2SC966Y	1617
2SC921C1	2016	2SC927B	2016	2SC930C-IF	2016	2SC934G	1617	2SC944S	2009	2SC948B	2016	2SC967	1617
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2SC921D	2016	2SC927C(E)	2016	2SC930CL	2016	2SC934H	1617	2SC945	2009	2SC948E	2016	2SC967B	1617
2SC921E	2016	2SC927C(K)	2016	2SC930CS	2016	2SC934J	1617	2SC945(K)	2009	2SC948F	2016	2SC967C	1617
2SC921F	2016	2SC927CJ	2016	2SC930D	2016	2SC934K	1617	2SC945(L)	2009	2SC948G	2016	2SC967D	1617
2SC921G	2016	2SC927CK	2016	2SC930DB	2016	2SC934L	1617	2SC945(P)	2009	2SC948GN	2016	2SC967E	1617
2SC921GN	2016	2SC927CT	2016	2SC930DC	2016	2SC934M	1617	2SC945(Q)	2009	2SC948H	2016	2SC967F	1617
2SC921H	2016	2SC927CU	2016	2SC930DE	2016	2SC934OR	1617	2SC945(R)	2009	2SC948J	2016	2SC967G	1617
2SC921J	2016	2SC927CW	2016	2SC930DK	2016	2SC934Q	1617	2SC945(TK)	2009	2SC948K	2016	2SC967GN	1617
2SC921K	2016	2SC927D	2016	2SC930DS	2016	2SC934R	1617	2SC945(TK.P)	2009	2SC948L	2016	2SC967H	1617
2SC921L	2016	2SC927E	2016	2SC930DT	2016	2SC934X	1617	2SC945(TP)	2009	2SC948M	2016	2SC967J	1617
2SC921M	2016	2SC927E,Z	2016	2SC930DT-2	2016	2SC934Y	1617	2SC945(TQ)	2009	2SC948OR	2016	2SC967K	1617
2SC921OR	2016	2SC927F	2016	2SC930DX	2016	2SC936	2055	2SC945(TQ,Q)	2009	2SC948R	2016	2SC967L	1617
2SC921R	2016	2SC927G	2016	2SC930DZ	2016	2SC936(BK)	2055	2SC945-0	2009	2SC948X	2016	2SC967M	1617
2SC921W	2016	2SC927GN	2016	2SC930E	2016	2SC936A	2055	2SC945-K	2009	2SC948Y	2016	2SC967OR	1617
2SC921X	2016	2SC927H	2016	2SC930EP	2016	2SC936B	2055	2SC945-O	2009	2SC949	2016	2SC967R	1617
2SC921Y	2016	2SC927J	2016	2SC930ET	2016	2SC936BK	2055	2SC945-OR	2009	2SC950	1617	2SC967X	1617
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2SC922B	2009	2SC927M	2016	2SC930F	2016	2SC936E	2055	2SC945-T	2009	2SC953	1617	2SC968A	2009
2SC922C	2009	2SC927OR	2016	2SC930G	2016	2SC936F	2055	2SC945-TQ	2009	2SC954	1617	2SC968B	2009
2SC922K	2009	2SC927R	2016	2SC930GN	2016	2SC936G	2055	2SC945-YX	2009	2SC955	1617	2SC968C	2009
2SC922L	2009	2SC927X	2016	2SC930H	2016	2SC936GN	2055	2SC-945A	2009	2SC956	1617	2SC968D	2009
2SC922M	2009	2SC927XL	2016	2SC930J	2016	2SC936H	2055	2SC945A	2009	2SC957	2016	2SC968E	2009
2SC-923	2016	2SC927Y	2016	2SC930K	2016	2SC936J	2055	2SC945A(K)	2009	2SC957A	2016	2SC968F	2009
2SC923	2016	2SC927Z	2016	2SC930L	2016	2SC936K	2055	2SC945A(P)	2009	2SC957AL	2016	2SC968G	2009

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2SC968GN	2009	2SC997H	2058	2SC1005OR	2055	2SC1032	2016	2SC1046M	2055	2SC1080LB	2041	2SC1123F	2009
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2SC968J	2009	2SC997K	2058	2SC1005X	2055	2SC1032A	2016	2SC1046OR	2055	2SC1097A	2017	2SC1123H	2009
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2SC968L	2009	2SC997M	2058	2SC1006	2016	2SC1032BL	2016	2SC1046X	2055	2SC1098(4)K	2017	2SC1123K	2009
2SC968M	2009	2SC997OR	2058	2SC1006A	2016	2SC1032C	2016	2SC1046Y	2055	2SC1098(4)L	2017	2SC1123L	2009
2SC968OR	2009	2SC997R	2058	2SC1006B	2016	2SC1032D	2016	2SC1047	2016	2SC1098(L)	2017	2SC1123M	2009
2SC968P	2009	2SC997X	2058	2SC1006C	2016	2SC1032E	2016	2SC1047(B)	2016	2SC1098(M)	2017	2SC1123OR	2009
2SC968R	2009	2SC997Y	2058	2SC1007	1617	2SC1032F	2016	2SC1047(C)	2016	2SC1098-4K	2017	2SC1123R	2009
2SC968X	2009	2SC999	2055	2SC1008	2030	2SC1032G	2016	2SC1047-C	2016	2SC1098-4L	2017	2SC1123X	2009
2SC968Y	2009	2SC999A	2055	2SC1008A	2030	2SC1032GN	2016	2SC1047A	2016	2SC1098-42M	2017	2SC1123Y	2009
2SC969	1617	2SC999B	2055	2SC1009	2058	2SC1032H	2016	2SC1047B	2016	2SC1098A	2017	2SC1126	2058
2SC970	1617	2SC999C	2055	2SC1009A	2058	2SC1032J	2016	2SC1047BC	2016	2SC1098B	2017	2SC1126A	2058
2SC972	2030	2SC999D	2055	2SC1009F1	2058	2SC1032K	2016	2SC1047BCD	2016	2SC1098C	2017	2SC1126B	2058
2SC972A	2030	2SC999E	2055	2SC1009F2	2058	2SC1032L	2016	2SC1047C	2016	2SC1098D	2017	2SC1126E	2058
2SC972B	2030	2SC999F	2055	2SC1009F3	2058	2SC1032M	2016	2SC1047D	2016	2SC1098L	2017	2SC1126F	2058
2SC972C	2030	2SC999G	2055	2SC1009F4	2058	2SC1032OR	2016	2SC1047E	2016	2SC1098M	2017	2SC1126GN	2050
2SC972D	2030	2SC999GN	2055	2SC1009F5	2058	2SC1032R	2016	2SC1047F	2016	2SC1099	2055	2SC1126J	2058
2SC972E	2030	2SC999H	2055	2SC1010	2016	2SC1032X	2016	2SC1047G	2016	2SC1099(K)	2055	2SC1126K	2058
2SC972F	2030	2SC999J	2055	2SC1010A	2016	2SC1032Y	2016	2SC1047GN	2016	2SC1099K	2055	2SC1126L	2058
2SC972G	2030	2SC999K	2055	2SC1010B	2016	2SC1035	2016	2SC1047GR	2016	2SC1100	2055	2SC1126M	2058
2SC972GN	2030	2SC999L	2055	2SC1010C	2016	2SC1035A	2016	2SC1047H	2016	2SC1100A	2055	2SC1126OR	2058
2SC972H	2030	2SC999M	2055	2SC1019C	2020	2SC1035B	2016	2SC1047J	2016	2SC1100B	2055	2SC1126R	2058
2SC972J	2030	2SC999OR	2055	2SC1023	2016	2SC1035C	2016	2SC1047K	2016	2SC1100C	2055	2SC1126X	2058
2SC972K	2030	2SC999R	2055	2SC1023(G)	2016	2SC1035D	2016	2SC1047L	2016	2SC1100D	2055	2SC1126Y	2058
2SC972L	2030	2SC999X	2055	2SC1023(O)	2016	2SC1035E	2016	2SC1047M	2016	2SC1100E	2055	2SC1128	2058
2SC972M	2030	2SC999Y	2055	2SC1023-O	2016	2SC1035F	2016	2SC1047R	2016	2SC1100F	2055	2SC1128(M)	2058
2SC972OR	2030	2SC1000	2016	2SC1023-Y	2016	2SC1035GN	2016	2SC1047X	2016	2SC1100G	2055	2SC1128(S)	2058
2SC972R	2030	2SC1000(BL)	2016	2SC1023A	2016	2SC1035H	2016	2SC1047Y	2016	2SC1100GN	2055	2SC1128-O	2058
2SC972X	2030	2SC1000(GR)	2016	2SC1023B	2016	2SC1035J	2016	2SC1051	2041	2SC1100H	2055	2SC1128A	2058
2SC972Y	2030	2SC1000-BL	2016	2SC1023C	2016	2SC1035L	2016	2SC1051L	2041	2SC1100J	2055	2SC1128B	2058
2SC976	2030	2SC1000-GR	2016	2SC1023D	2016	2SC1035M	2016	2SC1052	2030	2SC1100K	2055	2SC1128BL	2058
2SC976TV	2030	2SC1000-Y	2016	2SC1023E	2016	2SC1035OR	2016	2SC1053	2030	2SC1100L	2055	2SC1128C	2058
2SC979	1617	2SC1000A	2016	2SC1023F	2016	2SC1035P	2009	2SC1054	2016	2SC1100M	2055	2SC1128D	2058
2SC979-O	1617	2SC1000B	2016	2SC1023G	2016	2SC1035X	2009	2SC1060	2020	2SC1100OR	2055	2SC1128G	2058
2SC979-R	1617	2SC1000BL	2016	2SC1023GN	2016	2SC1035Y	2016	2SC1060(C,D)	2020	2SC1100R	2055	2SC1128H	2058
2SC979-Y	1617	2SC1000C	2016	2SC1023H	2016	2SC1036	2016	2SC1060A	2020	2SC1100X	2055	2SC1128M	2058
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2SC980	2009	2SC1000G	2016	2SC1023M	2016	2SC1036D	2016	2SC1060BY	2020	2SC1101B	2055	2SC1129	2058
2SC980A/O	2009	2SC1000G-BL	2016	2SC1023OR	2016	2SC1036E	2016	2SC1060C	2020	2SC1101C	2055	2SC1129(M)	2058
2SC980AG	2009	2SC1000GBL	2016	2SC1023R	2016	2SC1036F	2016	2SC1060D	2020	2SC1101D	2055	2SC1129(R)	2058
2SC980AG-O	2009	2SC1000G-GR	2016	2SC1023X	2016	2SC1036G	2016	2SC1060E	2020	2SC1101E	2055	2SC1129-O	2058
2SC980AG-R	2009	2SC1000GN	2016	2SC1023Y	2016	2SC1036GN	2016	2SC1060F	2020	2SC1101F	2055	2SC1129A	2058
2SC980G	2009	2SC1000GR	2016	2SC1026	2016	2SC1036H	2016	2SC1060G	2020	2SC1101G	2055	2SC1129B	2058
2SC980G-O	2009	2SC1000H	2016	2SC1026(G)	2016	2SC1036J	2016	2SC1060GN	2020	2SC1101GN	2055	2SC1129BL	2058
2SC980G-R	2009	2SC1000J	2016	2SC1026-O	2016	2SC1036K	2016	2SC1060H	2020	2SC1101H	2055	2SC1129C	2058
2SC980G-Y	2009	2SC1000K	2016	2SC1026-R	2016	2SC1036L	2016	2SC1060J	2020	2SC1101J	2055	2SC1129G	2058
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2SC984C	2009	2SC1000R	2016	2SC1026C	2016	2SC1036X	2016	2SC1060OR	2020	2SC1101OR	2055	2SC1130	2055
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2SC988	2016	2SC1004R	2055	2SC1030A	2041	2SC1045R	2055	2SC1061T	2020	2SC1117G	2016	2SC1166E	2009
2SC988A	2016	2SC1004X	2055	2SC1030B	2041	2SC1045X	2055	2SC1061TB	2020	2SC1117GN	2016	2SC1166F	2009
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2SC993	1617	2SC1005A	2055	2SC1030D	2041	2SC1046-OR	2055	2SC1070-1	2016	2SC1117K	2016	2SC1166H	2009
2SC993D	1617	2SC1005B	2055	2SC1030E	2041	2SC1046A	2055	2SC1070-2	2016	2SC1117L	2016	2SC1166K	2009
2SC993E	1617	2SC1005C	2055	2SC1030F	2041	2SC1046B	2055	2SC1070-B	2016	2SC1117M	2016	2SC1166L	2009
2SC994	2009	2SC1005D	2055	2SC1030G	2041	2SC1046C	2055	2SC1071	1617	2SC1117OR	2016	2SC1166M	2009
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2SC997A	2058	2SC1005F	2055	2SC1030J	2041	2SC1046E	2055	2SC1072A	2030	2SC1117X	2016	2SC1166OR	2009
2SC997B	2058	2SC1005G	2055	2SC1030K	2041	2SC1046F	2055	2SC1079	2041	2SC1117Y	2016	2SC1166R	2009
2SC997C	2058	2SC1005GN	2055	2SC1030L	2041	2SC1046G	2055	2SC1079-R	2041	2SC1123	2009	2SC1166Y	2009
2SC997D	2058	2SC1005H	2055	2SC1030M	2041	2SC1046GN	2055	2SC1079-Y	2041	2SC1123A	2009	2SC1167	2055
2SC997E	2058	2SC1005J	2055	2SC1030OR	2041	2SC1046H	2055	2SC1080	2041	2SC1123B	2009	2SC1170	2055
2SC997F	2058	2SC1005K	2055	2SC1030R	2041	2SC1046J	2055	2SC1080-R	2041	2SC1123C	2009	2SC1170(B)	2055
2SC997G	2058	2SC1005L	2055	2SC1030X	2041	2SC1046K	2055	2SC1080-Y	2041	2SC1123D	2009	2SC1170-OR	2055
2SC997GN	2058	2SC1005M	2055	2SC1030Y	2041	2SC1046L	2055	2SC1080B	2041	2SC1123E	2009	2SC1170A	2055

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2SC1170B	2055	2SC1205B	2009	2SC1222A	2016	2SC1317V	2009	2SC1335K	2016	2SC1360ANC	2016	2SC1413Y	2055
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
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2SC1675K	2009	2SC1740	2009	2SC1826G	2020	2SC1998	2009	2SC2206B	2009	2SC2603F	2009	2SC3720C	2058
2SC1675L	2009	2SC1740(Q)	2009	2SC1826O	2020	2SC1999	2016	2SC2206C	2009	2SC2603R	2009	2SC3720D	2058
2SC1675M	2009	2SC1740(R)	2009	2SC1826P	2020	2SC2000	2009	2SC2206Q	2009	2SC2603S	2009	2SC3720F	2058
2SC1681	2016	2SC1740(S)	2009	2SC1826Q	2020	2SC2000L	2009	2SC2206R	2009	2SC2634-R	2016	2SC3720G	2058
2SC1681-BL	2016	2SC1740C	2009	2SC1826R	2020	2SC2001	2009	2SC2210	2058	2SC2634-RS	2016	2SC3720GN	2058
2SC1681-GR	2016	2SC1740D	2009	2SC1826Y	2020	2SC2001-L	2009	2SC2212	2016	2SC2634-S	2016	2SC3720H	2058
2SC1681A	2016	2SC1740L	2009	2SC1827	2020	2SC2001F	2009	2SC2212A	2016	2SC2634NC	2016	2SC3720J	2058
2SC1681B	2016	2SC1740LN	2009	2SC1827(Y)	2020	2SC2001G	2009	2SC2213	2016	2SC2634R	2016	2SC3720K	2058
2SC1681B6	2016	2SC1740P	2009	2SC1833	2009	2SC2001I	2009	2SC2215	2058	2SC2634RS	2016	2SC3720L	2058
2SC1681BL	2016	2SC1740Q	2009	2SC1834	2009	2SC2001K	2009	2SC2216	2009	2SC2634S	2016	2SC3720OR	2058
2SC1681C	2016	2SC1740QH	2009	2SC1840	2016	2SC2001L	2009	2SC2260	2041	2SC2636	2016	2SC3720R	2058
2SC1681F	2016	2SC1740QJ	2009	2SC1840E	2016	2SC2001L1	2009	2SC2261	2041	2SC2636(F)	2016	2SC3720X	2058
2SC1681G	2016	2SC1740QR	2009	2SC1840F	2016	2SC2001M	2009	2SC2262	2041	2SC2646	2016	2SC3720Y	2058
2SC1681GN	2016	2SC1740QV	2009	2SC1840P	2016	2SC-2002	2009	2SC2263	2016	2SC2647	2058	2SC3800	2058
2SC1681GR	2016	2SC1740QZ	2009	2SC1842	2016	2SC2002	2009	2SC2274	2009	2SC2647C	2058	2SC3800A	2058
2SC1681H	2016	2SC1740R	2009	2SC1842E	2016	2SC-2002(,2SC2002(L))		2SC2274(D)	2009	2SC2669	2009	2SC3800B	2058
2SC1681J	2016	2SC1740RE	2009	2SC1843	2016		2009	2SC2274(E)	2009	2SC2669-O	2009	2SC3800C	2058
2SC1681K	2016	2SC1740RH	2009	2SC1844	2016	2SC2002(K)	2009	2SC2274(F)	2009	2SC2669-Y	2009	2SC3800D	2058
2SC1681L	2016	2SC1740RL	2009	2SC1849	2009	2SC2002(L)	2009	2SC2274-D	2009	2SC2670	2009	2SC3800E	2058
2SC1681M	2016	2SC1740RM	2009	2SC1850	2009	2SC2002(M)	2009	2SC2274-E	2009	2SC2675	2009	2SC3800F	2058
2SC1681O	2016	2SC1740RS	2009	2SC1851	2009	2SC2002B	2009	2SC2274F	2009	2SC2710	2009	2SC3800G	2058
2SC1681OR	2016	2SC1740RS-TB	2009	2SC1852	2009	2SC2002K	2009	2SC2274H	2009	2SC2710-O	2009	2SC3800GN	2058
2SC1681R	2016	2SC1740RU	2009	2SC1853	2009	2SC2002L	2009	2SC2274K	2009	2SC2710-Y	2009	2SC3800H	2058
2SC1681V	2016	2SC1740RV	2009	2SC1853B	2009	2SC2002M	2009	2SC2274KE	2009	2SC2717	2058	2SC3800J	2058
2SC1682	2016	2SC1740RZ	2009	2SC1853C	2009	2SC2003	2009	2SC2277	2009	2SC2717FA	2058	2SC3800K	2058
2SC1684	2009	2SC1740S	2009	2SC1854	2009	2SC2009	2058	2SC2297	2020	2SC2719	2009	2SC3800L	2058
2SC1684(Q)	2009	2SC1740S(Q)	2009	2SC1854C	2009	2SC2012	2016	2SC2308	2009	2SC2720	2009	2SC3800M	2058
2SC1684(Q.R)	2009	2SC1740S(R)	2009	2SC1854R	2009	2SC-2021	2016	2SC2308B	2009	2SC2724	2009	2SC3800OR	2058
2SC1684(R)	2009	2SC1740S(S)	2009	2SC1854S	2009	2SC2021	2016	2SC2308C	2009	2SC2724(D)	2009	2SC3800R	2058
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2SC1684BL	2009	2SC1741A	2009	2SC1857	2009	2SC2021M(Q)	2016	2SC2309L	2016	2SC2724E	2009	2SC3940A	2058
2SC1684H(P)	2009	2SC1746A	2009	2SC1875	2055	2SC2021M(R)	2016	2SC2310	2009	2SC2785	2009	2SC3940B	2058
2SC1684K	2009	2SC1766	2009	2SC1875K	2055	2SC2021M(S)	2016	2SC2315	2020	2SC2785(E)	2009	2SC3940C	2058
2SC1684P	2009	2SC1766E	2009	2SC1875L	2055	2SC2021MLN	2016	2SC2320	2009	2SC2785(F)	2009	2SC3940D	2058

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2SC3940E	2058	2SCF2GN	2058	2SCNJ100	2016	2SD28L	2020	2SD91J	2020	2SD147D	2020	2SD180	2041
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2SC3940Y	2058	2SCF5C	2009	2SCS429F	2058	2SD29J	2020	2SD110-ORG	2041	2SD147Y	2020	2SD180M	2041
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2SC4033B	2058	2SCF5F	2009	2SCS429H	2058	2SD29M	2020	2SD110-Y	2041	2SD154	2020	2SD180X	2041
2SC4033C	2058	2SCF5G	2009	2SCS429J	2016	2SD29OR	2020	2SD110-YEL	2041	2SD154(L)	2020	2SD180Y	2041
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2SC4033Y	2058	2SCF6C	2030	2SCS430F	2058	2SD33J	2016	2SD119	2041	2SD154X	2020	2SD182OR	2030
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2SC4116A	2020	2SCF6E	2030	2SCS430H	2016	2SD33L	2016	2SD119-BLU	2041	2SD163	2041	2SD182X	2030
2SC4116B	2020	2SCF6F	2030	2SCS430J	2058	2SD33OR	2016	2SD119-R	2041	2SD164	2041	2SD182Y	2030
2SC4116C	2020	2SCF6G	2030	2SCS430K	2058	2SD33X	2016	2SD119-RED	2041	2SD172	2041	2SD183	2030
2SC4116D	2020	2SCF6GN	2030	2SCS430L	2058	2SD33Y	2016	2SD119-Y	2041	2SD172A	2041	2SD183B	2030
2SC4116E	2020	2SCF6H	2030	2SCS430M	2058	2SD48	2020	2SD119-YEL	2041	2SD172B	2041	2SD183E	2030
2SC4116F	2020	2SCF6J	2030	2SCS430R	2058	2SD49	2020	2SD119A	2041	2SD172C	2041	2SD183GN	2030
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2SC4116K	2020	2SCF6R	2030	2SCS461B	2058	2SD49E	2020	2SD119R	2041	2SD172GN	2041	2SD184	2020
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2SC4116M	2020	2SCF6Y	2030	2SCS461D	2058	2SD49G	2020	2SD122	2020	2SD172J	2041	2SD184B	2020
2SC4116OR	2020	2SC-F11	2058	2SCS461E	2058	2SD49GN	2020	2SD123	2020	2SD172K	2041	2SD184C	2020
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2SCF2G	2058	2SC-NJ100	2016	2SD28K	2020	2SD91H	2020	2SD147C	2020	2SD175Y	2041	2SD189M	2041

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2SD204F	2030	2SD220OR	2030	2SD235Y	2020	2SD314D	2020	2SD341H	2041	2SD404O	2020	2SD636-Q,R	2009
2SD204G	2030	2SD220R	2030	2SD241	2020	2SD314F	2020	2SD342	2020	2SD405	2068	2SD636-R	2009
2SD204GA	2030	2SD220X	2030	2SD242	2020	2SD314GN	2020	2SD343	2020	2SD409	2068	2SD636-R.S.T	2009
2SD204GN	2030	2SD220Y	2030	2SD242YLC	2020	2SD314H	2020	2SD343A	2020	2SD416	2055	2SD636P	2009
2SD204H	2030	2SD221	2030	2SD243	2020	2SD314L	2020	2SD343B	2020	2SD418	2055	2SD636Q	2009
2SD204K	2030	2SD221F	2030	2SD244	2020	2SD314M	2020	2SD343C	2020	2SD419	2068	2SD636QR	2009
2SD204L	2030	2SD228	2009	2SD256	2020	2SD314N	2020	2SD343D	2020	2SD425	2041	2SD636QRS	2009
2SD204M	2030	2SD228F	2009	2SD257	2020	2SD314R	2020	2SD343H	2020	2SD425-O	2041	2SD636R	2009
2SD204R	2030	2SD228G	2009	2SD258	2020	2SD314Y	2020	2SD343J	2020	2SD425-R	2041	2SD636RS	2009
2SD204Y	2030	2SD228GN	2009	2SD259	2020	2SD315	2020	2SD343K	2020	2SD426	2041	2SD636T	2009
2SD205	2030	2SD228H	2009	2SD288	2020	2SD315C	2020	2SD344	2020	2SD426-O	2041	2SD637	2009
2SD205(L)	2030	2SD228J	2009	2SD288(O)	2020	2SD315D	2020	2SD345	2020	2SD426-R	2041	2SD637(C)	2009
2SD205(M)	2030	2SD228K	2009	2SD288A	2020	2SD315E	2020	2SD346	2020	2SD427	2041	2SD637(CR)	2009
2SD205A	2030	2SD228L	2009	2SD288B	2020	2SD316	2041	2SD347	2020	2SD427-O	2041	2SD637(Q)	2009
2SD205B	2030	2SD228M	2009	2SD288C	2020	2SD316-1	2041	2SD348	2055	2SD427-R	2041	2SD637(R)	2009
2SD205C	2030	2SD228OR	2009	2SD288K	2020	2SD316-2	2041	2SD350	2055	2SD460	2068	2SD637(S)	2009
2SD205D	2030	2SD228R	2009	2SD288L	2020	2SD317	2020	2SD350A	2055	2SD467	2009	2SD637-O	2009
2SD205E	2030	2SD228X	2009	2SD289	2020	2SD317A	2020	2SD350Q	2055	2SD467-C	2009	2SD637-P	2009
2SD205F	2030	2SD228Y	2009	2SD289A	2020	2SD317A(F)	2020	2SD350T	2055	2SD467B	2009	2SD637-Q	2009
2SD205G	2030	2SD234	2020	2SD289B	2020	2SD317A(F)(P)	2020	2SD356	2020	2SD467C	2009	2SD637-QR	2009
2SD205GN	2030	2SD234(O)	2020	2SD289C	2020	2SD317A(P)	2020	2SD356E	2020	2SD469	2041	2SD637-QRS	2009
2SD205H	2030	2SD234-0	2020	2SD292	2020	2SD317AF	2020	2SD357	2020	2SD474K	2016	2SD637-R	2009
2SD205J	2030	2SD234-O	2020	2SD292-0	2020	2SD317AP	2020	2SD357E	2020	2SD475	2020	2SD637C	2009
2SD205L	2030	2SD234-ORG	2020	2SD292A	2020	2SD317F	2020	2SD358	2020	2SD475A	2020	2SD637CR	2009
2SD205M	2030	2SD234-R	2020	2SD292B	2020	2SD317P	2020	2SD358E	2020	2SD476	2020	2SD637O	2009
2SD205OR	2030	2SD234-RED	2020	2SD292BL	2020	2SD318	2020	2SD359	2020	2SD476A	2020	2SD637P	2009
2SD205R	2030	2SD234-Y	2020	2SD292C	2020	2SD318-O	2020	2SD359C	2020	2SD476AKB	2020	2SD637PQ	2009
2SD205X	2030	2SD234-YEL	2020	2SD292D	2020	2SD318A	2020	2SD359C2	2020	2SD476AKC	2020	2SD637PQR	2009
2SD205Y	2030	2SD234A	2020	2SD292E	2020	2SD318B	2020	2SD359D	2020	2SD476B	2020	2SD637PR	2009
2SD207	2041	2SD234B	2020	2SD292F	2020	2SD318P	2020	2SD359D1	2020	2SD476C	2020	2SD637Q	2009
2SD207A	2041	2SD234C	2020	2SD292G	2020	2SD318Q	2020	2SD359D2	2020	2SD476D	2020	2SD637QR	2009
2SD211	2041	2SD234D	2020	2SD292GA	2020	2SD322	2041	2SD360	2020	2SD476G	2020	2SD637QRS	2009
2SD211-OR	2041	2SD234E	2020	2SD292GN	2020	2SD322A	2041	2SD360D	2020	2SD476KB	2020	2SD637R	2009
2SD211A	2041	2SD234F	2020	2SD292H	2020	2SD322B	2041	2SD360E	2020	2SD476KC	2020	2SD637RS	2009
2SD211B	2041	2SD234G	2020	2SD292J	2020	2SD322C	2041	2SD361	2020	2SD476O	2020	2SD637S	2009
2SD211C	2041	2SD234GA	2020	2SD292K	2020	2SD323	2041	2SD361C	2020	2SD476YL	2020	2SD637ST	2009
2SD211D	2041	2SD234GN	2020	2SD292L	2020	2SD323A	2041	2SD361D	2020	2SD477	2020	2SD637T	2009
2SD211E	2041	2SD234G-O	2020	2SD292M	2020	2SD323B	2041	2SD365	2020	2SD492	2041	2SD638	2009
2SD211F	2041	2SD234G-R	2020	2SD292OR	2020	2SD323C	2041	2SD365A	2020	2SD517	2055	2SD638(Q)	2009
2SD211G	2041	2SD234GR	2020	2SD292R	2020	2SD325	2017	2SD365B	2020	2SD522	2041	2SD638(R)	2009
2SD211GN	2041	2SD234G-Y	2020	2SD292X	2020	2SD325-1	2017	2SD365H	2020	2SD525	2020	2SD638(S)	2009
2SD211H	2041	2SD234H	2020	2SD292Y	2020	2SD325-OR	2017	2SD365P	2020	2SD525-O	2020	2SD638-R	2009
2SD211J	2041	2SD234J	2020	2SD312	2055	2SD325A	2017	2SD366	2020	2SD525-Y	2020	2SD638-S	2009
2SD211K	2041	2SD234K	2020	2SD312A	2055	2SD325B	2017	2SD366A	2020	2SD525R	2020	2SD638P	2009
2SD211L	2041	2SD234L	2020	2SD312B	2055	2SD325C	2017	2SD368	2055	2SD525Y	2020	2SD638Q	2009
2SD211M	2041	2SD234M	2020	2SD312C	2055	2SD325D	2017	2SD370	2041	2SD526	2020	2SD638QR	2009
2SD211OR	2041	2SD234N	2020	2SD312D	2055	2SD325E	2017	2SD379	2041	2SD526(O)	2020	2SD638QRS	2009
2SD211R	2041	2SD234O	2020	2SD312E	2055	2SD325F	2017	2SD380	2055	2SD526-O	2020	2SD638R	2009
2SD211X	2041	2SD234OR	2020	2SD312F	2055	2SD325G	2017	2SD380A	2055	2SD531	2020	2SD638RS	2009
2SD211Y	2041	2SD234R	2020	2SD312G	2055	2SD325GN	2017	2SD381	2020	2SD544	2020	2SD639	2009
2SD212	2041	2SD234X	2020	2SD312GN	2055	2SD325H	2017	2SD381E	2020	2SD560	2068	2SD639(Q)	2009
2SD213	2041	2SD234Y	2020	2SD312H	2055	2SD325J	2017	2SD381L	2020	2SD568(K)	2020	2SD639(R)	2009
2SD214	2041	2SD235	2020	2SD312J	2055	2SD325K	2017	2SD382	2020	2SD570	2020	2SD639(S)	2009
2SD215	2030	2SD235(O)	2020	2SD312K	2055	2SD325L	2017	2SD385	2068	2SD575	2055	2SD639P	2009
2SD216	2030	2SD235(R)	2020	2SD312L	2055	2SD325M	2017	2SD389	2020	2SD575L	2055	2SD639Q	2009
2SD219	2030	2SD235(Y)	2020	2SD312M	2055	2SD325OR	2017	2SD389(LP)	2020	2SD577	2055	2SD639R	2009
2SD219A	2030	2SD235-0	2020	2SD312X	2055	2SD325R	2017	2SD389(O)	2020	2SD581	2041	2SD639S	2009
2SD219B	2030	2SD235-O	2020	2SD312Y	2055	2SD325X	2017	2SD389(O,LP,F)	2020	2SD581A	2041	2SD639T	2009
2SD219C	2030	2SD235-OR	2020	2SD313	2020	2SD325Y	2017	2SD389(F)	2020	2SD582	2041	2SD649	2055
2SD219D	2030	2SD235-ORG	2020	2SD313(D)	2020	2SD327	2009	2SD389-0	2020	2SD582A	2041	2SD649Q	2055
2SD219E	2030	2SD235-R	2020	2SD313(D,E)	2020	2SD327-Y	2009	2SD389-O	2020	2SD587	2055	2SD654	2020
2SD219F	2030	2SD235-RED	2020	2SD313(D)(E)	2020	2SD327A	2009	2SD389A	2020	2SD590	2020	2SD661	2016
2SD219G	2030	2SD235-Y	2020	2SD313(E)	2020	2SD327B	2009	2SD389AF	2020	2SD591	2016	2SD661(S)	2016
2SD219GN	2030	2SD235-YEL	2020	2SD313(F)	2020	2SD327C	2009	2SD389AF0	2020	2SD591K	2016	2SD661(T)	2016
2SD219H	2030	2SD235-Y.JA	2020	2SD313A	2020	2SD327D	2009	2SD389AFO	2020	2SD592	2009	2SD661-R	2016
2SD219J	2030	2SD235A	2020	2SD313B	2020	2SD327E	2009	2SD389AFP	2020	2SD592ANC	2009	2SD661RS	2016
2SD219K	2030	2SD235B	2020	2SD313C	2020	2SD327F	2009	2SD3B9AO	2020	2SD592NC	2009	2SD661S	2016
2SD219L	2030	2SD235C	2020	2SD313D	2020	2SD327L	2009	2SD389AP	2020	2SD592N	2009	2SD661ST	2016
2SD219M	2030	2SD235D	2020	2SD313DN	2020	2SD327OR	2009	2SD389AQ	2020	2SD598	2016	2SD661T	2016
2SD219OR	2030	2SD235E	2020	2SD313E	2020	2SD327R	2009	2SD389BLB	2020	2SD603	2009	2SD662	2017
2SD219R	2030	2SD235F	2020	2SD313F	2020	2SD328	2035	2SD389BLB-O	2020	2SD613	2020	2SD664	2068
2SD219X	2030	2SD235G	2020	2SD313G	2020	2SD328S	2035	2SD389BLB-P	2020	2SD613(D)	2020	2SD671	2009
2SD219Y	2030	2SD235GN	2020	2SD313GN	2020	2SD330	2035	2SD389BP	2020	2SD613(E)	2020	2SD686	2068
2SD220	2030	2SD235G-O	2020	2SD313H	2020	2SD330(E)	2035	2SD389L	2020	2SD613E	2020	2SD687	2068

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
2SD691	2068	2SD866B	2020	2SF41F	2035	2SK23A	2035	2SK49I	2035	2T172	2009	3CS2	1104
2SD704	2020	2SD866D	2020	2SF101	1067	2SK23A([illegible]12)	2035	2SK49M	2035	2T202	2009	3DD10	1114
2SD704D	2020	2SD866P	2020	2SF101B	1067	2SK24	2035	2SK54	2035	2T402	1617	3DH61	1114
2SD704E	2020	2SD866Q	2020	2SF102	1067	2SK24C	2035	2SK54B	2035	2T403	2009	3DL2	1104
2SD721	2068	2SD866R	2020	2SF102A	1067	2SK24D	2035	2SK54C	2035	2T404	2009	3DL4C	1104
2SD723	2020	2SD867	2041	2SF102B	1067	2SK24DR	2035	2SK55	2035	2T501	1104	3DS1	1104
2SD725	2055	2SD878	2041	2SF103	1067	2SK24E	2035	2SK55C	2035	2T502	1104	3DS2	1104
2SD725-06	2055	2SD880	2020	2SF104	1067	2SK24F	2035	2SK55CD	2035	2T503	1104	3DS3	1114
2SD726	2020	2SD880-OLBGL2	2020	2SF104A	1067	2SK24G	2035	2SK55D	2035	2T504	1104	3DZ61	1143
2SD734	2009	2SD880-Y	2020	2SF104B	1067	2SK25	2035	2SK55DE	2035	2T505	1104	3E05	1141
2SD734(F)	2009	2SD880GR	2020	2SF105	1020	2SK25C	2035	2SK55R	2035	2T506	1104	3E-1	1617
2SD734(G)	2009	2SD880Y	2020	2SF106	1020	2SK25D	2035	2SK61	2035	2T507	1114	3E-2	1617
2SD734-NP	2009	2SD880YLBGL2	2020	2SF106A	1020	2SK25E	2035	2SK61(Y)	2035	2T508	1114	3E2	1143
2SD734E	2009	2SD886	2020	2SF106B	1020	2SK25ET	2035	2SK61GR	2035	2T509	1114	3E-3	1617
2SD734F	2009	2SD886A	2020	2SF108	1020	2SK25F	2035	2SK61Y	2035	2T510	1114	3E-4	1123
2SD734G	2009	2SD886F	2020	2SF108A	1020	2SK25G	2035	2SK68	2035	2T918	2009	3E-64	1104
2SD743	2020	2SD886P	2020	2SF108B	1020	2SK31(C)	2035	2SK68-L	2035	2T919	2016	3E-65	1104
2SD743A	2020	2SD886Q	2020	2SF229	1067	2SK31C	2035	2SK68-M	2035	2T2708	2009	3ES1	1104
2SD743R	2020	2SD889	2016	2SF248T	2020	2SK32	2035	2SK68A	2035	2T2785	2009	3ES2	1104
2SD762	2020	2SD889Q	2016	2SF357	1067	2SK32B	2035	2SK68A(L)	2035	2T2857	2009	3F30(SCR)	1067
2SD762-O	2020	2SD889R	2016	2SF521	1067	2SK33	2035	2SK68A(M)	2035	2U4	1104	3F60(SCR)	1067
2SD762-P	2020	2SD889T	2016	2SF522	1067	2SK33D	2035	2SK68AL	2035	2U8	1104	3F100(SCR)	1067
2SD762OP	2020	2SD918	2020	2SF523	1067	2SK33E	2035	2SK68A-M	2035	2U12	1104	3F150	1067
2SD762P	2020	2SD919	2009	2SF524	1020	2SK33F	2035	2SK68AM	2035	2W005	1173	3F150(SCR)	1067
2SD762Q	2020	2SD959LB	2020	2SF525	1020	2SK33H	2035	2SK68L	2035	2W01	1173	3F200	1067
2SD778	2009	2SD959Q	2020	2SF656	1067	2SK35	2035	2SK68M	2035	2W02	1173	3F200(SCR)	1067
2SD778Q	2009	2SD960	2020	2SF656ZS	1067	2SK35-0	2035	2SK68Q	2035	2W04	1173	3FB050R	1067
2SD778R	2009	2SD969	2030	2SF657	1067	2SK35-1	2035	2SK83	2035	2W3A	1104	3FS1	1104
2SD783	2055	2SD1010	2016	2SF658	1067	2SK35-2	2035	2SK104	2035	2W4A	1104	3FS2	1104
2SD792	2055	2SD1010S	2016	2SF664	1067	2SK35A	2035	2SK104E	2035	2W5A	1104	3G2	2062
2SD792S	2055	2SD1012	2009	2SF664S	1067	2SK35BL	2035	2SK104F	2035	2W6A	1114	3G8	1104
2SD792T	2055	2SD1012F	2009	2SF674S	1067	2SK35C	2035	2SK104H	2035	2W7A	1114	3G152	1104
2SD804	2020	2SD1012G1	2009	2SF676S	1067	2SK35GN	2035	2SK106	2035	2W9A	1114	3G154	1104
2SD804H	2020	2SD1022	2068	2SF941	1067	2SK35R	2035	2SK107	2035	2X9A116	1104	3G156	1104
2SD804HLB	2020	2SD1024	2068	2SF942	1067	2SK35Y	2035	2SK107-1	2035	2XAA111	1123	3G158	1114
2SD804HP	2020	2SD1044A	2068	2SF1110	1067	2SK37	2035	2SK107-2	2035	2XAA112	1123	3G252	1104
2SD807	2055	2SD1060K	2041	2SF1111	1067	2SK37(K)	2035	2SK107-4	2035	2XAA113	1123	3G254	1104
2SD807M	2055	2SD1061	2020	2SF1112	1067	2SK37H	2035	2SK119	2035	2XAA119	1123	3G256	1104
2SD820	2055	2SD1098-42M	2017	2SF1113	1020	2SK40	2035	2SK120	2062	3-1477	1144	3G258	1114
2SD820FA-1	2055	2SD1131B	2020	2SF1114	1020	2SK40(C)	2035	2SK152	2035	3A1	1114	3G1510	1114
2SD821	2055	2SD1131C	2020	2SFD111	1123	2SK40-3	2035	2SK152-1	2035	3A15	1141	3G2510	1114
2SD822	2055	2SD1131D	2020	2SG536GN	1617	2SK40A	2035	2SK152-2	2035	3A30	1141	3GA	1104
2SD822P	2055	2SD1132B	2020	2SJ2A	1104	2SK40B	2035	2SK152-3	2035	3A50	1114	3GH61	1114
2SD822Q	2055	2SD1132C	2020	2SJ4A	1104	2SK40C	2035	2SK152LA	2035	3A50FS	1114	3GS1	1104
2SD836	2068	2SD1132D	2020	2SJ8A	1114	2SK40D	2035	2SK168D	2035	3A100	1114	3GS2	1104
2SD836A	2068	2SD1133B	2020	2SJ11	2035	2SK41	2035	2SK168F	2035	3A100FS	1114	3GZ61	1144
2SD836Q	2068	2SD1133C	2020	2SJ12	2035	2SK41C	2035	2SK170	2035	3A152	1104	3HS1	1104
2SD836R	2068	2SD1133D	2020	2SJ60A	1104	2SK41D	2035	2SK170V	2035	3A154	1104	3HS2	1104
2SD837	2068	2SD1134	2020	2SK2SET	2035	2SK41E	2035	2SK192	2035	3A156	1104	3J15	1067
2SD837A	2068	2SD1134-C	2020	2SK11	2035	2SK41E1	2035	2SK194	2035	3A158	1114	3J30	1067
2SD837AB	2068	2SD1134C	2020	2SK12	2035	2SK41F	2035	2SK195H	2062	3A-200	1114	3J60	1067
2SD837AD	2068	2SD1135	2020	2SK13	2035	2SK42	2035	2SK196R	2035	3A200	1104	3J100	1067
2SD837AQ	2068	2SD1186	2055	2SK15	2035	2SK42-CM1	2035	2SK197	2035	3A200FS	1114	3JH-61	1104
2SD837AR	2068	2SD1206(Q)	2016	2SK16HA	2035	2SK42-CMI	2035	2SK197YC	2035	3A252	1104	3JH61	1104
2SD837B	2068	2SD1206(R)	2016	2SK17	2035	2SK43	2035	2SK197YD	2035	3A254	1104	3K15	1067
2SD837LB	2068	2SD1206Q	2016	2SK17(O)	2035	2SK43(03)	2035	2SK197YE	2035	3A256	1104	3K5797	2023
2SD837O	2068	2SD1206R	2016	2SK17-0	2035	2SK43(2)	2035	2SK212	2062	3A258	1114	3L4-2001	1123
2SD837P	2068	2SD1228M	2009	2SK17-OR	2035	2SK43(3A)	2035	2SK212A	2062	3A300	1144	3L4-2001-1	1123
2SD837Q	2068	2SD1266	2020	2SK17A	2035	2SK43-3	2035	2SK212AE	2062	3A400	1114	3L4-2001-1A	1123
2SD837R	2068	2SD1266(P)	2020	2SK17B	2035	2SK43-4	2035	2SK212E	2062	3A400FS	1114	3L4-2001-3	1122
2SD843	2020	2SD1266(Q)	2020	2SK17BL	2035	2SK43-OR	2035	2SK304	2035	3A500FS	1114	3L4-2001-4	1122
2SD843(Y)	2020	2SD1266(R)	2020	2SK17GR	2035	2SK43A	2035	2SK1033B	2035	3A600	1114	3L4-2003-1	1123
2SD849	2055	2SD1266P	2020	2SK17O	2035	2SK43B	2035	2SK1521A	2035	3A600FS	1114	3L4-2003-3	1123
2SD856	2020	2SD1266Q	2020	2SK17R	2035	2SK43C	2035	2SM610B	2023	3A700	1114	3L4-2003-4	1123
2SD856(P)	2020	2SD1276	2068	2SK17Y	2035	2SK43D	2035	2SN733	2009	3A700FS	1114	3L4-2003-7	1123
2SD856(Q)	2020	2SD1276-AP	2068	2SK19	2035	2SK43E	2035	2SN3841	2023	3A800	1114	3L4-3001-1	1122
2SD856(R)	2020	2SD1276-LB	2068	2SK19(BL)	2035	2SK43F	2035	2SO12	2020	3A800FS	1114	3L4-3001-5	1104
2SD856A	2020	2SD1276A	2068	2SK19(GN)	2035	2SK43H	2035	2SO14	2016	3A900	1114	3L4-3001-7	1122
2SD856B	2020	2SD1276A(LB)P	2068	2SK19(GR)	2035	2SK43J	2035	2SO33	2041	3A900FS	1114	3L4-3001-8	1104
2SD856L	2020	2SD1276A(LP)	2068	2SK19-14	2035	2SK43K	2035	2SO34	2041	3A1000	1114	3L4-3002-7	1122
2SD856LB	2020	2SD1276AP	2068	2SK19-BL	2035	2SK43L	2035	2SO35	2041	3A1000FS	1114	3L4-3002-10	1122
2SD856M	2020	2SD1276B	2068	2SK19-GP	2035	2SK43M	2035	2SO36	2041	3A1510	1114	3L4-3002-13	1103
2SD856M(LB)	2020	2SD1276LB	2068	2SK19-Y	2035	2SK43OR	2035	2SO95A	2009	3A2510	1114	3L4-3002-20	1122
2SD856MLB	2020	2SD1276P	2068	2SK19A	2035	2SK43R	2035	2SP405	2030	3AF2	1114	3L4-3002-25	1122
2SD856O	2020	2SD1277B	2068	2SK19B	2035	2SK43S	2035	2SQ371	2016	3AF4	1144	3L4-3002-30	1104
2SD856P	2020	2SD1318	2030	2SK19BB	2035	2SK43X	2035	2SR05K	1104	3AS1	1104	3L4-3002-31	1122
2SD856PQR	2020	2SD1363-Y	2020	2SK19BL	2035	2SK43Y	2035	2SR1K	1104	3AS2	1104	3L4-3002-32	1122
2SD856Q	2020	2SD1406	2020	2SK19FET	2035	2SK44	2035	2SR24	2035	3BB-20B01	1171	3L4-3002-33	1122
2SD856Q(LB)	2020	2SD1406-Y	2020	2SK19GB	2035	2SK44C	2035	2SR54	2030	3BB-20801	1104	3L4-3506-29	564
2SD856R	2020	2SD1406GR	2020	2SK19GE	2035	2SK44D	2035	2SR68AM	2035	3BH61	1114	3L4-3506-31	565
2SD856S	2020	2SD1406Y	2020	2SK19GR	2035	2SK47	2062	2SR173	2030	3BS1	1104	3L4-5007-3	2016
2SD857	2020	2SD1894	2055	2SK19H	2035	2SK49	2035	2T15X3	2016	3BS2	1104	3L4-6001-01	2041
2SD857A	2020	2SD2340	2020	2SK19K	2035	2SK49E2	2035	2T40	2009	3BZ-61	1114	3L4-6007-2	1617
2SD857B	2020	2SD2350	2020	2SK19V	2035	2SK49F	2035	2T41	2009	3BZ61	1114	3L4-6007-3	2016
2SD864K	2068	2SDU84GN	2030	2SK19Y	2035	2SK49H	2035	2T42	2009	3C6030	1067	3L4-6007-10	2016
2SD866	2020	2SE629	2016	2SK22Y	2035	2SK49H1	2035	2T43	2009	3C6100	1067	3L4-6007-11	2016
2SD866A	2020	2SE4002	2016	2SK23	2035	2SK49H2	2035	2T44	2009	3CS1	1104	3L4-6007-12	2016

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3L4-6007-13	2016	3RC30	1020	4-2020-05800	1122	4-3023841	2016	[illegible]	1123	5-30097.3	1104	5.1B3	565
3L4-6007-14	2016	3RC30A	1020	4-2020-06100	1122	4-3023213	1617	4J24X539	563	5-30097.4	1104	5.1EB3	565
3L4-6007-15	2016	3RL30A	1020	4-2020-06200	1122	4-3023231	1617	4JA2FX325	1104	5-30106.1	1104	5.1N1	565
3L4-6007-20	2016	3S004	1617	4-2020-06400	1122	4-3023233	2030	4JA3X325	1104	5-30109.1	1104	5.1N2	565
3L4-6007-21	2016	3S05F	1141	4-2020-06800	1104	4-3023843	2041	4JA4DR730	1104	5-30113.1	1104	5.1N3	565
3L4-6007-22	2016	3S1E	1143	4-2020-07300	1104	4-3023844	2030	4JA4DX520	1104	5-30120.1	1104	5.1X	565
3L4-6007-23	2016	3S2E	1143	4-2020-07500	561	4-3025763	2016	4JA6MR700	1104	5-70004503	1617	6-02	2009
3L4-6007-34	2023	3S3E	1144	4-2020-07600	1104	4-3025764	2016	4JA10DX3	1104	5-70005452	1617	6-04	1617
3L4-6007-35	2016	3S4E	1144	4-2020-07601	1104	4-3025765	2016	4JA10DX32	1104	5-70005503	1617	6-04GRN	1617
3L4-6007-41	2058	3S4M	1020	4-2020-07700	1104	4-3025766	1617	4JA10EX3	1104	5-7000901504	1617	6-04ORN	1617
3L4-6007-51	2016	3S4M/LB	1020	4-2020-08001	1122	4-3025767	2016	4JA16MR700M	1114	5A1	1104	6-04S1	1617
3L4-6010-1	2020	3S4M/LB1E	1020	4-2020-08200	1122	4-3540012	1104	4JA211A	1104	5A2	1104	6-04S2	1617
3L4-6010-3	2009	3S4M/LB1E	1020	4-2020-08500	1104	4-202002571	1123	4JX1S596	1617	5A3	1104	6-05	1617
3L4-6010-6	2030	3S306	2035	4-2020-08600	1123	4-202104170	1104	4JX7A972	1617	5A4	1104	6-05Y	1617
3L4-6011-1	2020	3S105	1114	4-2020-08900	1104	4-202104970	1122	4JX11C2848	2030	5A4D	1104	6-05YEL	1617
3L4-6011-9	2027	3SB629	1104	4-2020-10100	1122	4-2020035000	1123	4JX16A567	1617	5A4D-C	1104	6-0451	1617
3L4-6011-11	2027	3SK23	2035	4-2020-10500	1104	4-AAZ10	1123	4JX16A667	1617	5A5	1104	6-0452	1617
3L4-6011-12	2027	3SK30	2035	4-2020-12400	563	4AJ4DX52D	1104	4JX16A667/G	2009	5A5D	1104	6-11	1617
3L4-6011-14	2027	3SK30A	2035	4-2020-14500	1104	4AJ4DX520	1104	4JX16A667/O	2009	5A6	1104	6-19	1617
3L4-6012-2	2020	3SK30B	2035	4-2020-15600	1122	4C28	2030	4JX16A667/R	2009	5A6D	1104	6-30	1617
3L4-6012-3	2020	3SK30C	2035	4-2021-04170	1171	4C29	2030	4JX16A667/Y	2009	5A6D-C	1104	6-31	2023
3L4-6012-5	2020	3SK34C	2035	4-2021-04470	1114	4C30	2030	4JX16A667G	1617	5A8	1114	6-31A	2023
3L4-6012-6	2020	3SM4	1020	4-2021-04770	1114	4C31	2030	4JX16A667O	1617	5A8D	1114	6-38	2023
3L4-6012-8	2020	3SS4M	1020	4-2021-04970	1104	4C43	2009	4JX16A667R	1617	5A8DC	1114	6-38A	2023
3L4-6012-55	2017	3T501	1104	4-2021-05000	1122	4D4	1104	4JX16A667Y	1617	5A10	1114	6-49	2023
3L4-6012-56	2020	3T502	1104	4-2021-05870	1123	4D6	1104	4JX16A668	1617	5A10C	1114	6-90	2016
3L4-6012-58	2020	3T503	1104	4-2021-07470	1122	4D8	1104	4JX16A668/G	2009	5A10D	1114	6-93	2009
3L4-6013-6	2027	3T504	1104	4-2021-07670	1122	4D20	1617	4JX16A668/O	2009	5A10D-C	1114	6-2708	2016
3L4-6013-15	2027	3T505	1104	4-2021-08270	1104	4D21	1617	4JX16A668/Y	2009	5A15	1067	6-59010	1104
3L4-9020-1	703	3T506	1104	4-2021-09370	1114	4D22	1617	4JX16A668G	1617	5A-D	1104	6-6490004	2041
3L1030	1067	3T507	1114	4-2021-10270	1104	4D24	1617	4JX16A668O	2009	5AD8	1114	6A10227	1617
3L2015	1067	3T508	1114	4-2021-10470	1104	4D25	1617	4JX16A668Y	1617	5AD8DC	1114	6A10228	2030
3L46007-1	2009	3T509	1114	4-2029-70860	1122	4D26	1617	4JX16A669	1617	5AD10	1114	6A10422	1617
3L46007-2	2009	3T510	1114	4-2029-71590	1122	4G8	1114	4JX16A669G	1617	5AD10C	1114	6A10423	1617
3LN61	1114	3TCRF	1020	4-2039-70300	2016	4GA	1104	4JX16A669Y	1617	5AD10D	1114	6A10520	1617
3MS5	1104	3TCRG	1020	4-2039-70431	2009	4H 130 30302	1122	4JX16A670	1617	5B-1	1104	6A10851	1617
3MS10	1104	3TE120	2041	4-2040-08000	1122	4H 130 30312	1123	4JX16A670G	1617	5B-2	1104	6A10855	1617
3MS20	1104	3TE140	2041	4-3033	1104	4H 130 30702	1122	4JX16A6670	2009	5B2	1114	6A11180	1617
3MS30	1104	3TE220	2055	4-3034	1122	4H 130 30862	562	4JX16A6680	1617	5B-2-H5W	1104	6A11223	2016
3MS40	1104	3TE230	2041	4-5145	1617	4H 130 30869	1123	4JX16B670/B	2009	5B3	1104	6A12677	2016
3MS50	1104	3TE240	2041	4-68682-3	1617	4H 130 31012	1123	4JX16B670/R	2009	5B-15H	1104	6A12679	2016
3N35	1617	3TM62	1114	4-68689-3	1114	4H 130 31438	1101	4JX16B670/Y	2009	5D1	1104	6A12681	1617
3N71	2016	3TX002	2055	4-68695-3	2016	4H 130 40916	2009	4JX16B670B	1617	5D2	1104	6A12682	2009
3N72	2016	3TX003	2041	4-68697-3	1114	4H 130 40927	2009	4JX16B670G	1617	5D8	1114	6A12683	1617
3N73	2016	3TX004	2041	4-684120-3	2016	4H 130 40937(,1402C)		4JX16B670R	1617	5D10	1114	6A12725	1617
3N74	2016	3X11/1	1104	4-685285-3	2016		2009	4JX16B670Y	1617	5E1	1104	6A12788	1617
3N75	2016	3.3B1	1101	4-686105-3	1114	4H 130 40937(,BC548B)		4JX16E3860	1617	5E2	1104	6A12789	1617
3N76	2016	4-12-1A7-1	1617	4-686106-3	1114		2009	4JX16E3890	1617	5E3	1104	6A16399	2009
3N77	2016	4-46	2016	4-686107-3	2016	4H 130 41356	2016	4JX16E3960	1617	5E4	1104	6B1	561
3N78	2016	4-47	2009	4-686108-3	2016	4H 130 41395	2023	4JX24X539	563	5E5	1104	6B2	561
3N79	2016	4-47(SEARS)	1617	4-686112-3	2016	4H 130 41441	2016	4JX29A826	2023	5E6	1104	6C2	561
3N87	2016	4-50	1104	4-686114-3	2016	4H 130 44121	2029	4JX29A829	2023	5E8	1114	6G4	1104
3N88	2016	4-202A16	1123	4-686118-3	2016	4H 130 44196	2009	4JZ4X539	563	5G8	1114	6GA175D	1104
3N90	2023	4-202R101	1104	4-686119-3	2016	4H 130 44196(,BC548C)		4JZ4XL12	563	5GA	1104	6GA1750	1104
3N91	2023	4-203-5100-69372	2016	4-686120-3	2016		2009	4K30	1067	5G-D	1104	6GD1	1101
3N92	2023	4-282	1123	4-686126-3	2016	4H1034-4196	2009	4K60	1067	5GD	1104	6GX1	1101
3N93	2023	4-324	2035	4-686127-3	2016	4H1303-0219	1123	4K100	1067	5GF	1114	6M4	1104
3N94	2023	4-397	2030	4-686131-3	2016	4H1303-0613	1122	4L30	1067	5GFH	1104	6M404-1	1104
3N95	2023	4-398	2030	4-686132-3	1617	4H1303-1201	1104	4L100	1067	5GJ	1114	6M404-2	1104
3N114	2023	4-399	2016	4-686139-3	1114	4H1303-1356	1104	4SD46-2	1123	5GJ/FR1N	1104	6M404-3	1104
3N115	2023	4-400	2016	4-686140-3	2016	4H1303-1393	1104	4T6.2	561	5H	1104	6M404-4	1104
3N116	2023	4-433	2016	4-686143-3	1617	4H1304-0938	2009	4T6.2A	561	5H4D1	1104	6M404-5	1104
3N117	2023	4-434	2016	4-686144-3	1617	4H1304-0941	2023	4T501	1104	5H350M	1104	6M404-6	1104
3N118	2023	4-443	2016	4-686149-3	1104	4H1304-1025	2018	4T502	1104	5J-F1	1104	6M404-7	1104
3N119	2023	4-450	2016	4-686169-3	2016	4H1304-4104	2023	4T503	1104	5K10	1114	6RS510-X12	1101
3N120	2016	4-851	1617	4-686171-3	2016	4H1304-4121	2009	4T504	1104	5K4164ANP-15	2506	6RW62HY	1104
3N121	2016	4-852	1123	4-686172-3	2016	4H1304-4154	2058	4T505	1104	5MA2	1104	6X97047A01	1617
3N123	2023	4-853	1123	4-686173-3	1617	4H1304-4196	2009	4T506	1104	5MA4	1104	6X97174A01	1122
3N127	2016	4-854	1123	4-686179-3	1114	4H1304-4358	2023	4T507	1114	5MA4D	1104	6X97174XA08	1122
3N129	2023	4-855	1123	4-686182-3	2030	4H13030621	1122	4T508	1114	5MA5	1104	6.2B	561
3N130	2023	4-857	1123	4-686183-3	1617	4H13030847	1122	4T509	1114	5MA6	1104	6.2B1	561
3N131	2023	4-882	1123	4-686184-3	1114	4H13030862	562	4T510	1114	5MA8	1114	6.2B1(1WATT)	561
3N132	2023	4-1544	2016	4-686186-3	1114	4H13030792	1122	4W01-13	563	5MA10	1114	6.2B2	561
3N133	2023	4-1545	1617	4-686189-3	1114	4H13030904	1122	4.7B1	565	5MF1	1104	6.2B3	561
3N134	2023	4-1724	1122	4-686199-3	1114	4H13031168	1114	4.7B2	565	5MS5	1104	6.2BB3	561
3N135	2023	4-1726	1122	4-686201-3	1114	4H13031173	1114	4.7X	565	5MS10	1104	6.2N1	561
3N136	2023	4-1790	1617	4-686207-3	2016	4H13031174	1102	4.7Z	565	5MS20	1104	6.2N2	561
3N246	1171	4-1791	2016	4-686208-3	2016	4H13034167	561	5-8	1617	5MS30	1104	6.2Y	561
3N247	1171	4-1807	1104	4-686209-3	2016	4H13040938	2009	5-30082.3	1114	5MS40	1104	6.2Z	561
3N249	1173	4-2020	1123	4-686212-3	1114	4H13040938(,BC548B)		5-30082.4	1114	5MS50	1104	7-0002	1104
3N253	1171	4-2020-03173	1104	4-686214-3	2016		2009	5-30086.1	1104	5N1	1104	7-0003	1171
3N256	1173	4-2020-03200	1104	4-686228-3	2016	4H13040947	2023	5-30088.1	1104	5O	1123	7-0004	1104
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3P1MH	1067	4-2020-03571	1123	4-686234-3	2020	4H13044196	2009	5-30094.1	1104	5.1	565	7-0006	1123
3P2MH	1020	4-2020-03900	1114	4-686244-3	2016	4H13044197	2023	5-30095.1	1104	5.1B	565	7-0008	1104
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3PC25	1020	4-2020-05600	1123	4-686257-3	1617	4H13044503	2009	5-30099.1	1104	5.1B2	565	7-0014	2023

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7-0015	1617
7-1(SARKES)	1617
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7-3(SARKES)	1617
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7-8(STANDEL)	1173
7-9	2016
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7-10	2016
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7-11(SARKES)	2016
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7-25(SARKES)	2016
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8-0338040	2016
8-0339430	2016
8-0339440	2016
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8-0414120	2041
8-0414130	2041
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8-4(BENDIX)	1617
8-22	1104
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8-719-026-11	1123
8-719-100-30	565
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8-719-100-72	564
8-719-100-72(,RD15E-B3)	564
8-719-102-64	565
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8-719-102-68	565
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8-719-300-38	1104
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9N08	1822
9N08DC	1822
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9RE1	1104	10B555-2	2016	10DC5	1104	11-085015	1123	12-1A7	1617	13-0321-7	1617	13-14085-2	2016
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48-134871A	2023	48-134988	1617	48-137127A	2023	48-137377	1617	48-644681	1123	48D66037A05	1104	48P63082A26	2009
48-134879	2016	48-134989	2023	48-137130	562	48-137378	1617	48-646954	1104	48D66037A08	1104	48P63082A27	2030
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48-134896	1617	48-137003	1617	48-137158	2016	48-137390	2016	48-741255	1122	48D67120A09	1123	48P65144A72	2016

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48P65146A61	2016	48S44883G01	2030	48S134905	1617	48S137176	1617	48S155286	2020	48X90237A65	563	48X90445A97	2016
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48R869128	2030	48S97172A01	1144	48S134944	2035	48S137369	2020	48X90229A17	2009	48X90380A76		48X90478A21	2009
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	2023	48S134768	2009	48S134964	2009	48S155039	1123	48X90232A01	2009	48X90420A28	2023	48X90478A52	2009
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57A258-8	2023	57B117-9	1617	57B160-7	2016	57C24-4	1617	59SD-1N34A(AU)	1123	62-20319	1122	63-11758	1617
57A259-10	1067	57B118-12	1617	57B160-8	2016	57C27-1	1617	59SD-1N34A(AU)		62-20360	1617	63-11759	1617
57A263-11	2055	57B119-2	2016	57B166-12	2016	57C27-2	2016	(,1N34A(AU))	1123	62-20437	1122	63-11762	1114
57A265-4	1617	57B119-12	1617	57B167-9	2030	57C104-8	2016	60-3	1104	62-20597	1122	63-11825	2009
57A268-9	1617	57B120-12	1617	57B169-2	2035	57C105-12	2009	60 SZ-RD9.1EB2	562	62-20643	564	63-11831	1617
57A279-14	2020	57B121-9	1617	57B169-12	2035	57C109-9	2030	60C	1104	62-21369	1104	63-11832	1617
57A280-14	2009	57B122-9	2023	57B170-9	2030	57C121-9	1617	60D	1104	62-21496	1617	63-11833	1617
57A281-14	2023	57B122-9A	2023	57B175-9	2041	57C142-4	2016	60DE10	1114	62-21552	1122	63-11879	1123
57A282-12	1617	57B125-9	1617	57B175-9A	2041	57C156-9	1617	60H	1104	62-22038	1617	63-11881	1104
57A286-10	2020	57B126-12	1617	57B175-12	2023	57C157-9	2023	60J2	1104	62-22039	1617	63-11934	1617
57A290-12	2035	57B128-9	2030	57B179-4	2016	57C157-90	2023	60LA	1114	62-22250	1617	63-11935	1617
57A294-12	2009	57B129-9	1617	57B181-12	2009	57C164-4	2016	60M	1104	62-22251	1617	63-11936	2030
57A305-12	2023	57B130-9	2023	57B182-12	2009	57C179-4	2016	60T4	1067	62-26597	1122	63-11937	1617
57A311-14	2020	57B130-9A	2023	57B184-12	2016	57C182-12	2009	61-259	1123	62-112524	1123	63-11957	1104
57A312	2055	57B131-10	2020	57B185-12	2023	57C279-14	2020	61-744	1617	62-113998	1104	63-11989	2030
57A313-11	2055	57B132-10	2027	57B186-11	2055	57D1-1	1123	61-747	2030	62-114267	2016	63-11991	2041
57A402-4	2016	57B133-12	2023	57B187-12	2020	57D1-2	1123	61-751	1617	62-118825	1114	63-11991A	2041
57A403-12	2023	57B134-12	2016	57B191-12	1617	57D1-51	1617	61-754	1617	62-125528	1122	63-12003	1617
57A419-GR	2009	57B135-12	1617	57B194-11	1617	57D1-54	1123	61-755	1617	62-126321	1122	63-12004	1617
57A419-GY	2009	57B136-12	1617	57B198-11	2055	57D1-55	2009&23	61-813	2030	62-126856	1104	63-12062	1617
57A419-Y	2009	57B137-12	2023	57B213-11	2055	57D1-62	1123	61-814	1617	62-129604	2016	63-12154	2023
57A420-GR	2023	57B137-12A	2023	57B243-10	1067	57D1-64	1123	61-815	1617	62-130045	1122	63-12154A	2023
57A420-Q	2023	57B138-4	2009	57B258-8	2023	57D1-73	1617	61-1053-1	2020	62-130046	1122	63-12156	2023
57A458-O	2023	57B139-4	2009	57B263-11	2055	57D1-74	2023	61-1320	1104	62-130047	562	63-12156A	2023
57B2-27	1617	57B140-12	1617	57B280-14	2009	57D1-123	1617	61-1400	1617	62-130761	564	63-12157	2023
57B2-28	1617	57B141-1	2016	57B281-14	2023	57D1-124	1617	61-1401	1617	62-130762	564	63-12157A	2023
57B2-38	2030	57B141-2	2016	57B282-12	1617	57D6-4	1617	61-1402	1617	62 ST-2SC458	2009	63-12158	1123
57B2-57	2030	57B141-3	2016	57B286-10	2020	57D6-19	1617	61-1403	1617	62 ST-2SC458C	2009	63-12272	1617
57B2-59	1617	57B141-4	2016	57B311-14	2020	57D14-1	1617	61-1404	1617	62A01	1104	63-12366	1114
57B2-62	1617	57B142-1	2016	57B402-4	2016	57D14-2	1617	61-1763	1617	62A02	1104	63-12605	1617
57B2-63	1617	57B142-2	2016	57B402-4(,C535B		57D14-3	1617	61-1764	2030	62A04	1104	63-12607	1123
57B2-64	1617	57B142-3	2016	(JAPAN))	2016	57D19-1	2023	61-1765	1104	62A05	1104	63-12608	1617
57B2-70	2023	57B142-4	2009	57B402-L	2016	57D19-2	2023	61-7728	1104	62J2	1104	63-12609	1617
57B2-70A	2023	57B143-1	2016	57B419-GR	2009	57D19-3	2023	61-59395	1123	62ST-2SC458C	2009	63-12641	1617
57B2-71	2023	57B143-2	2016	57B419-P	2009	57D19-10	2023	61B007-1	2016	63-7421	1617	63-12642	1617
57B2-71A	2023	57B143-3	2016	57B419-Q	2009	57D19-20	2023	61B007-2	2016	63-7433	1104	63-12645	1123
57B2-73	1617	57B143-4	2016	57B420-P	2023	57D19-30	2023	61C001-1	1617	63-7567	1617	63-12696	1617

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
63-12497	1617	65B	2023	66X0047-901	1123	72N1	2016	76-13866-17	2016	79SZ-UZP-12B	563	83A30-1	1104
63-12706	1617	65C	2023	66X0048-001	1104	72N1B	2030	76-13866-18	2016	79F015	1123	83B38-1	1123
63-12707	1617	65C1	2023	66X0049-001(DIODE)		72N2	2016	76-13866-19	2016	79F114-1	2030	83C30-1	1104
63-12750	1617	65D	2023		1123	72N2B	1617	76-13866-19(VHF)	2016	79F114-3	2030	83P1	2023
63-12751	1617	65D1	2023	66X0049-002	1123	72ST-MPS9750F	2023	76-13866-20	2016	79F153	1101	83P1A	2023
63-12752	1617	65E	2023	66X0049-100	1123	72ST-MPS9750G	2023	76-13866-59	2016	80-001300	1114	83P1B	2023
63-12753	1617	65E1	2023	66X0051-001	1123	72T2	2020	76-13866-62	2016	80-001400	1114	83P1BC	2023
63-12754	1123	65F	2023	66X0056-001	1122	72Z	1104	76-14090-1	2030	80-050100	1617	83P1M	2023
63-12755	1123	65F1	2023	66X0062-001	1122	73-15	564	76-14196-1	1123	80-051500	1617	83P1MC	2023
63-12756	1123	65J2	1104	66X0069-001	1122	73 ST-2SC945R(AU)E		76-I(SYLVANIA)	2023	80-052102	1617	83P2	2023
63-12757	1123	65P117	1104	66X0070-001	1122		2009	76-L(SYLVANIA)	2023	80-052202	1617	83P2A	2023
63-12874	1617	65P124	1104	66X0071-001	1101	73N1	2016	76 SD-1N4148(AU)	1122	80-052302	1617	83P2AA	2023
63-12875	1617	65P124-1	1104	66X0073-001	1114	73N1B	1617	76 SI-HD14011BP	2411	80-052402	2041	83P2AA1	2023
63-12877	1617	65P124-2	1104	66X002000	1123	73W00124	1822	76 SD-1N4148(AU)	1122	80-052600	1617	83P2M	2023
63-12878	1617	65P153	1104	66X041-001	1104	74	2016	76 ST-2SC1815GR	2009	80-053001	1617	83P2M1	2023
63-12879	1617	65P155	1104	66X053-001	1104	74 ST-2SA1015O(AU)E		76G1450J	1104	80-053300	2030	83P2N	2023
63-12933	1617	65P206	1104	66X14	1104		2023	76N1	1617	80-053400	1617	83P3	2023
63-12940	1617	65P284	1104	66X14-C	1104	74 ST-2SC763D	2016	76N1(REMOTE)	2009	80-053600	2016	83P3A	2023
63-12941	1617	65P297	1104	66X14C	1104	74 ST-2SC785-O	2058	76N1(VID)	2016	80-60-1	1123	83P3AA	2023
63-12942	1617	65ST-2SC454B	2009	66X16	1104	74 ST-2SC1906(AP)	2016	76N1B	2030	80-308-2	1617	83P3AA1	2023
63-12943	1617	66-2246	1104	66X17	1104	74N1	1617	76N1M	1617	80-318250	1617	83P3B	2023
63-12944	2009	66-6030-00	1104	66X19	1104	74P1	2023	76N2	1617	80-337390	1617	83P3B1	2023
63-12946	1617	66-6031-00	1104	66X20	1123	74ST-2SC763D	2016	76N2B	2030	80-338030	2016	83P3M	2023
63-12948	1617	66-8504	1114	66X22	1104	74ST-2SC785-O	2058	76N3B	2030	80-339040	2016	83P3M1	2023
63-12949	1617	66-11502-02	2009	66X24	1104	74T2	2020	76SD-1N4148(AU)	1122	80-339430	2016	83P4	2023
63-12950	1617	66-11502-03	2009	66X26	1104	75	1104	76SD-1N4148(AU)		80-339440	2016	84 SZ-RD12EB3	563
63-12951	1617	66-11702-11	2009	66X29	1122	75-100-001	1122	(,1N4148(A	1122	80-383840	2016	84A20	1122
63-12952	1617	66-19013-07J	2009	66X41-1	1101	75 ST-2SD467C(AU)E		76SI-HD14011BP	2411	80-383930	2016	85	1102
63-12953	1617	66-19014-03J	2009	67-1000-00	1104		2009	76Z4	563	80-383940	1617	85-5	1104
63-12989	2030	66-19014-035	2009	67-1003-00	1104	75A198-11	2055	77(DIO)	1103	80-389910	1617	85 ST-2SA733Q	2023
63-12990	2030	66-20438-00	2027	67-31212-04	563	75D01	1067	77-271031-1	1123	80-389930	1617	85 ST-2SC458C(AU)E	
63-13080	1123	66-29015-03J	2023	67-34002-04	1104	75D02	1067	77-271032-1	1123	80-414120	2041		2009
63-13214	2030	66-29015-035	2023	67-34003-04	1122	75D04	1067	77-271234-1	1104	80-414130	2041	85ST-2SA733Q	2023
63-13215	2030	66-F29-1	1617	67-34148-07	1123	75D05	1067	77-271374-1	1104	80-421980	1617	86	1102
63-13322	2023	66-P11120	2023	67-35402-04	1143	75D06	1067	77-271453-1	1617	80A5	1114	86-0002	1123
63-13322A	2023	66-P1120	2023	67-39221-04P	562	75D1	1104	77-271490	2030	80AS	1114	86-0005	562
63-13419	1617	66F-001	1104	67-40060-01	1123	75D2	1104	77-271490-1	2030	80H	1114	86-0006	1104
63-13438	1617	66F001	1104	67-40060-02	1123	75D8	1114	77-271967-1	1617	81-27123100-3	1104	86-0007	1101
63-13440	1617	66F-001-1	1104	67 SD-1N34A	1123	75D10	1114	77-272913-1	2020	81-27123150-8	1123	86-0007-004	1617
63-13441	1617	66F001-1	1104	67J2	1114	75E1	1104	77-272914-1	2027	81-27123300-3	1104	86-0008	1123
63-13642	1123	66F-010	2020	67J2A	1114	75E2	1104	77-272999-1	2030	81-27123307-3	1104	86-0016-01	1104
63-13864	1617	66F016-1	1123	67SD-1N34A	1123	75E3	1104	77-273001-2	1617	81-27125140-7	1617	86-0022-001	1617
63-13903	1104	66F016-2	1122	68-A-8316-P1	2023	75E4	1104	77-273715-1	2020	81-27125140-7A	1617	86-0029-001	1617
63-13919	1104	66F017	1123	68 ST-MPS9700F	2009	75E5	1104	77-273716-1	2027	81-27125140-7B	1617	86-0031-001	1617
63-13926	2035	66F018	1123	68 SZ-RD12FB3	563	75E6	1104	77-273738-1	2020	81-27125160-5	1617	86-0035-001	2023
63-13927	1617	66F021-1	2016	68A831-P1	2023	75E7	1114	77-273739-1	2027	81-27125160-5A	1617	86-0511	1104
63-14032	1617	66F022-1	2016	68A9025	1801	75E8	1114	77 SS-2N5062	1067	81-27125160-5B	1617	86-0513	1123
63-14051	1617	66F023-1	2023	68A9028	1802	75E10	1114	77A01	1122	81-27125270-2	1617	86-0516	1102
63-14052	1617	66F024-1	2023	68ST-MPS9700E	2009	75E211	2048	77A02	1122	81-27125270-2A	1617	86-0521	563
63-14057	1617	66F025-1	2030	68SZ-RD12FB3	563	75F05	1104	77A11	1122	81-27125270-2B	1617	86-0522	1122
63-14195	1104	66F026-1	2016	69-1810	2009	75N5	565	77A13	1122	81-27125300-7	1617	86-1-3	1104
63-15483	1104	66F027-1	1617	69-1811	2009	75N5AA	1617	77N1	1617	81-46123001-3	1123	86-3-1	1101
63-15642	1617	66F028-1	1617	69-1812	2009	75N5.1	565	77N2	1617	81-46123004-5	1104	86-3-3	1104
63-19280	1617	66F029-1	1617	69-1813	2009	75N6.2	561	77N2B	2030	81-46123004-7	1104	86-4-1	1104
63-19282	1617	66F041-1	2023	69-1814	2030	75N12	563	77N3	1617	81-46123005	1104	86-7-1	1104
63-22724	1123	66F042-1	2016	69-1816	2016	75R1B	1104	77N4	1617	81-46123006-2	1123	86-9-3	1104
63-25342	1123	66F057-1	1617	69 1820	1123	75R2B	1104	77N5	1617	81-46123013-8	1123	86-10-01	1123
63-25933	1123	66F057-2	1617	69-1822	1122	75R3B	1104	77N6	1617	81-46123014-6	1104	86-10-1	1123
63-26382	1123	66F-084-1	2035	69-1823	1104	75R4B	1104	77SS-2N5062	1067	81-46123015-3	1123	86-10-1(,1S188)	1123
63-26597	1104	66J2	1104	69-2246	1104	75R5B	1104	78-900-002	1604	81-46123018-7	1104	86-10-1(,1S188FM)	1123
63-27612	1104	66X002-001	1122	69-2922	1123	75R6B	1104	78-900-004	2068	81-46123029-4	1123	86-14-1	1123
63-28256	1123	66X0020-000	1123	69 SZ-HZ12A2(AU)	563	75R7B	1114	78-254566-1	1104	81-46125006-0	2016	86-15-1	1123
63-28888	1123	66X0020-001	1123	69N1	2016	75R8B	1114	78-254566-4	1104	81-46125007-8	2016	86-20-1	1123
63-29461	1617	66X0023-001	1104	69V017H62	2009	75R9B	1114	78-271031-1	1123	81-46125012-8	2016	86-21-1	1104
63J2	1104	66X0023-002	1114	70 ST-2SC945Q	2009	75R10B	1114	78-271032-2	1123	81-46125013-6	2016	86-22-1	1123
63RECT-SI-1021	1104	66X0023-004	1104	70F40	1104	75W-005	1173	78-271143-1	1104	81-46125016-9	1617	86-22-3	1104
64-1	1123	66X0023-005	1104	70N1	1617	75W005	1173	78-271199-1	1123	81-46125019-3	1617	86-23-1	1101
64-8054-6	1104	66X0023-006	1104	70N1M	2016	75Z9.1	562	78-271228-1	1123	81-46125026-8	1617	86-23-3	1104
64-J2	1104	66X0023-007	1104	70N2	1617	75Z9.1A	562	78-271383-1	563	81-46125027-6	1617	86-25-1	563
64 RECT-SI-1001(AU)		66X0023-008	1104	70N3	2016	75Z9.1B	562	78-271383-3	564	81-46125030-0	2016	86-26-1	1104
	1103	66X0023-009	1114	70N4	1617	75Z9.1C	562	78-271383-4	564	81-46125032-6	2016	86-27-1	1122
64J2	1104	66X0023-1	1104	70S40	1104	75Z11	563	78-272160-1	1104	81-46125033-4	2016	86-28-3	1104
64RECT SI 1001(AU)		66X0025-001	1104	70ST-2SC945Q	2009	75Z11A	563	78-273002-1	1123	81-46125065-6	2035	86-30-1	1104
	1103	66X0028-008	1114	70T40	1104	75Z11B	563	78-273008	1104	81 ST-2SA1015O(AU)B		86-30-3	1104
64T4	1047	66X0033-000	1104	70 01 704	1617	75Z11C	563	78-273008-1	1104		2023	86-31-1	563
65	1104	66X0033-001	1104	71-126268	1617	75Z12	563	78-273085	1104	81 ST-2SA1050(AU)B		86-32-1	1104
65-085002	1123	66X0037-001	1104	71 SZ-RD12B(AU)	563	75Z12A	563	78 SZ-UZP-12B	563		2023	86-34-3	1104
65-085003	1123	66X0039-001	1123	71 SZ-UZ-12B(AU)	563	75Z12B	563	78A200010P4	1801	81T2	2030	86-35-1	562
65-085004	563	66X0040-003	561	71N1B	1617	75Z12C	563	78C01	2016	82-4	1104	86-35-3	1104
65-085010	1123	66X0040-009	564	71SZ-UZ-12B(AU)	563	75Z15	564	78C02	2016	82-409501	1617	86-36-1	1104
65-085012	1123	66X0040-020	562	71SZ-UZ-12B(AU)		75Z15A	564	78HV05CU	1770	82 RECT-SI-154(AU)		86-37-1	562
65-085013	1104	66X0041-001	1101	(,UZ-12B(A	563	75Z15B	564	78M05	1770		1104	86-37-3	1101
65-1	1617	66X0043-001	1123	72-11	1104	75Z15C	564	78M05C	1770	82N1	2016	86-38-1	1104
65-11502-03	2009	66X0044-001	1123	72-15	1104	76-1	2030	78M12	1771	82T2	2020	86-40-3	1104
65-744238	1101	66X0044-100	1122	72-18	1122	76-120-001	1723	78M12KC	1771	83-1	2023	86-41-1	1122
65 ST-2SC4548	2009	66X0046-001	1122	72 ST-MPS9750F	2023	76-13570-29	2016	78N1	1617	83-829	1104	86-42-3	1104
65A	2023	66X0047-001	1123	72 ST-MPS9750G	2023	76-13570-59	2016	78N2B	1617	83-880	1104	86-43-1	1101

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86-43-3	1104	86-92-1	563	86-273-2	2030	86-501-2	2023	86-5007-3	1123	86X0036-001	2023	87-10-1	1123
86-45-1	1123	86-96-3	1101	86-276-2	2023	86-502-2	1617	86-5009-3	1104	86X0036-001(TRANSIST		87-36-3	1101
86-46-3	1104	86-102-3	1067	86-276-20	2023	86-510-2	2030	86-5010-3	1122		2023	87-67-3	1114
86-47-3	1101	86-105-1	565	86-277-2	1617	86-511-9	2016	86-5011-3	1122	86X0036-001A	2023	87-218-U	2016
86-48-1	1123	86-109-3	1090	86-286-2	2023	86-513-2	2009	86-5012-3	1104	86X0038-001	2016	87-423-2	2023
86-49-1	1123	86-110-2	1617	86-286-20	2023	86-515-2(SEARS)	1617	86-5015-3	1122	86X0040-00	1617	87-593-2	2058
86-49-3	1104	86-110-3	1067	86-289-2	2016	86-520-2	1617	86-5018-2	1617	86X0040-001	1617	87-724-375-01	2009
86-50-3	1104	86-111-3	1104	86-290-2	2016	86-525-2	2016	86-5024-3	1104	86X0041-001	2023	87 RECT-SI-154	1104
86-51-2	1104	86-113-3	1067	86-291-2	2030	86-526-2	2016	86-5027-3	1122	86X0041-001A	2023	87 RECT-SI-154(AU)	
86-51-3	1104	86-116-3	1104	86-291-9	1617	86-527-2	2023	86-5028-3	1143	86X0042-002	2020		1104
86-52-1	1104	86-116-3(,RGP10G)		86-293-2	1617	86-528-2	2023	86-5029-3	1104	86X0043-001	2016	87A	1103
86-53-3	1122		1104	86-294-2	2023	86-529-2	2020	86-5032-3	1143	86X0044-001	2023	88-3	1104
86-54-3	1104	86-119-2	1617	86-294-20	2023	86-530-2	2027	86-5037-3	1122	86X0044-001A	2023	88-125	1104
86-55-3	1101	86-121-2	2030	86-298-2	2023	86-533-2	2023	86-5040-2	1617	86X0045-001	1617	88-831	1104
86-56-3	1101	86-123-2	1617	86-298-20	2023	86-534-2	1617	86-5041-2	1617	86X0046-001	2023	88-832	1104
86-56-3B	1101	86-125-1	1123	86-306-2	2030	86-536-2	2009	86-5044-2	1617	86X0047-001	2023	88-833	1104
86-56-3C	1101	86-128-3	1114	86-308-2	1617	86-537-2	2009	86-5045-2	1617	86X0048-001	1617	88-1250108	2016
86-56-3F	1101	86-128-3(,RM11A)	1114	86-309-2	1617	86-538-2	2009	86-5046-2	1617	86X0050-001	1617	88-1250109	1617
86-57-3	1104	86-138-2	2016	86-310-2	1617	86-547-2	2023	86-5049-2	1617	86X0051-001	2009	88 ST-2SA1015Y	2023
86-58-1	562	86-138-3	2016	86-323-2	1617	86-551-2	1617	86-5050-2	1617	86X0052-001	2009	88SZ-RD12FB2	563
86-58-2	1617	86-139-2	1617	86-324-2	1617	86-552-2	2023	86-5051-2	1617	86X0054-00	2009	89 ST-MPS9410AK	2030
86-58-3	1104	86-139-3	1104	86-327-2	1617	86-554-2	1617	86-5055-2	1617	86X0054-001	1617	89ST-MPS9410AK	2030
86-59-1	1104	86-143-2	1617	86-328-2	1617	86-555-2	2023	86-5056-2	1617	86X0056-001	2009	89WJ7546M	1123
86-59-3	1104	86-144-2	1617	86-330-2	2030	86-555-2(,2SA495)	2023	86-5065-2	1617	86X0058-002	2009	90-30	2009
86-60-1	1123	86-146-1	1123	86-336-2	2030	86-555-2(,2SA495-O)		86-5070-2	2030	86X0058-003	2009	90-31	2009
86-60-3	1104	86-146-3	1104	86-339-2	1617		2023	86-5073-2	2030	86X0060-001	2016	90-32	2009
86-61-1	563	86-147-1	1104	86-339-9	1617	86-561-2	1617	86-5074-2	2030	86X0061-001	2016	90-33	2016
86-62-1	1122	86-147-3	1104	86-340-2	2023	86-563-2	2055	86-5079-2	2023	86X0062-001	2016	90-45	2016
86-62-3	1104	86-155-2	1617	86-340-20	2023	86-563-9	2055	86-5081-2	1617	86X0063-001	1617	90-48	2009
86-63-3	1104	86-157-2	2009	86-342-2	1617	86-564-3	2055	86-5084-2	2041	86X0066-001	2023	90-49	2016
86-64-1	1123	86-158-2	1617	86-359-2	1617	86-564-9	2055	86-5084-2A	2041	86X0066-003	2023	90-50	2035
86-65-1	563	86-161-2	2030	86-362-2	1617	86-565-2	1617	86-5093-2	2030	86X0071-001	2009	90-55	2035
86-65-1(,EQB01-12)	563	86-166-2	1617	86-365-2	1617	86-567-2	2030	86-5095-2	2035	86X0072-001	2023	90-56	2009
86-65-3	1104	86-170-2	2020	86-379-2	1617	86-568-2	2020	86-5096-2	2035	86X0073-002	2027	90-57	2009
86-65-4	1122	86-171-2	1617	86-381-2	2009	86-570-2	2023	86-5097-2	1617	86X0080-002	2020	90-60	2058
86-65-9	1104	86-175-2	1617	86-386-2	2016	86-570-2(,2SA608E)		86-5099-2	1617	86X0080-100	2020&27	90-61	2009
86-67-0	1104	86-178-2	2023	86-389-2	1617		2023	86-5101-2	2041	86X0081-001	1020	90-62	2035
86-67-2	1114	86-178-20	2023	86-390-2	1617	86-570-2(,KSA733)	2023	86-5101-2A	2041	86X0081-002	1020	90-65	2009
86-67-3	1104	86-182-2	1617	86-391-2	1617	86-573-2	1617	86-5102-2	2020	86X0090-001	2009	90-66	2009
86-67-3(,1N4004GP)		86-183-2	2023	86-393-2	2030	86-574-2	1122	86-5103-2	1617	86X0113-001	2009	90-68	1801
	1103	86-183-20	2023	86-399-2	1617	86-592-2	2058	86-5107-2	2020	86X0114-001	1604	90-69	2009
86-67-3(,1N4005GP)		86-185-2	2016	86-399-9	1617	86-593-9	2058	86-5108-2	2020	86X0129-001	2020	90-70	2016
	1104	86-186-2	2016	86-400-2	2016	86-594-2	2058	86-5109-2	2030	86X6	1617	90-71	2009
86-67-3(,1S1885)	1102	86-188-2	1617	86-403-2	1617	86-595-2	1617	86-5110-2	1617	86X6-1	1617	90-140	2009
86-67-3(,1S1887)	1103	86-189-2	1617	86-406-2	2023	86-596-2	2016	86-5111-2	1617	86X6-4-518	1617	90-179	2035
86-67-3(,1S1887A)	1103	86-191-2	1617	86-407-2	2023	86-597-2	2016	86-5112-2	2041	86X7-2	1617	90-180	2009
86-67-3(,1S1887AFA)		86-192-2	1617	86-416-2	2016	86-598-2	1617	86-5114-2	1617	86X7-3	1617	90-181	2009
	1104	86-194-2	1617	86-417-2	2016	86-599-2	1617	86-5122-2	2035	86X7-4	1617	90-452	2009
86-67-3(,1S1887AFA-1)		86-195-2	1617	86-420-2	1617	86-600-2	2023	86-5911-3	1104	86X7-6	2016	90-453	2009
	1103	86-196-2	1617	86-423-2	2023	86-604-2	2020	86-10003	2058	86X7-6013	2016	90-455	2009
86-67-3(,10D6)	1104	86-198-2	1617	86-428-2	2030	86-607-2	2009	86-100002	2058	86X8-1	1617	90-456	2009
86-67-3(,B12-02R)	1102	86-199-2	1617	86-428-9	2030	86-607-2(,2SC536E)		86-100003	2009	86X8-2	1617	90-457	2009
86-67-3(,B12-02RK)		86-201-2	1617	86-440-2	2030		2009	86-100004	2058	86X8-3	1617	90-458	2009
	1102	86-202-2	1617	86-441-2	2030	86-607-2(,2SC536F)		86-100005	1617	86X8-4	1617	90-459	2009
86-67-3(,DS135C)	1104	86-204-2	2016	86-442-2	2016		2009	86-100006	2058	86X36-1	1617	90-600	2020
86-67-3(,DSF10C)	1102	86-205-2	2016	86-444-2	2016	86-607-2(,2SC536KE)		86-100007	2058	86X46	2023	90-601	2009
86-67-3(,EM01Z)	1104	86-207-2	2030	86-445-2	1617		2009	86-100008	1617	86X47	2023	90-602	2009
86-67-3(,EM1Z)	1102	86-208-2	2030	86-452-2	2030	86-607-2(,KSC815)	2009	86-100009	2023	86X75-2	2027	90-603	2016
86-67-3(,ERB12-01RK)		86-210-2	2030	86-457-2	1617	86-607-2(,KSC945)	2009	86-100013	1122	86X483-2	2030	90-604	2058
	1102	86-211-2	2030	86-458-2	1617	86-608-2	2023	86-100014	1122	86X6029-001	2016	90-605	2009
86-67-3(,S5277B)	1104	86-217-2	2023	86-459-2	2023	86-610-9	2023	86 ST-MPS9750D	2022	87	1103	90-606	2035
86-67-3(,S5277D)	1102	86-217-20	2023	86-460-2	1617	86-613-2	2020	86A327	2016	87-0001	2035	90-607	2035
86-67-3(,SIB01-02)	1102	86-218-2	2023	86-461-2	1617	86-619-2	2058	86A332	2041	87-0002	2058	90-608	2035
86-67-3(,SIB01-2)	1104	86-218-20	2023	86-462-2	1617	86-620-2	2058	86ST-MPS9750D	2022	87-0002-1	2058	90-612	2009
86-67-3(,TVR3D)	1104	86-219-2	2023	86-463-2	2030	86-621-2	2058	86X0006-001	1617	87-0003	2016	90-613	2035
86-67-3(,V06C)	1102	86-233-2	2023	86-463-3	2030	86-622-2	2023	86X0007-001	2009	87-0005	2009	90-614	2016
86-67-8	1104	86-234-2	2030	86-465-2	2009	86-626-2	2055	86X0007-004	2016	87-0009	2016	90T2	2016
86-67-9	1104	86-237-2	1617	86-467-2	2016	86-626-9	2055	86X0007-104	1617	87-0013	2016	91-3	1123
86-68-3	1171	86-238-2	1617	86-472-2	1617	86-633-2	2055	86X0007-204	2016	87-0014	2009	91-46	1123
86-68-3A	1171	86-243-2	2016	86-475-2	2023	86-633-9	2055	86X0008-001	1617	87-0023-7	2058	91A	2016
86-70-1	1122	86-244-2	2016	86-477-2	2023	86-646-2	1617	86X006-001	1617	87-0023-T	2009	91A01	1104
86-72-3	1114	86-245-2	2016	86-481-1	1617	86-650-2	2030	86X007-004	1617	87-0027	2016	91A02	1104
86-74-1	1122	86-246-2	2023	86-481-2	1617	86-655-2	1617	86X007-034	1617	87-0203-1	2009	91A03	1104
86-74-9	1122	86-246-20	2023	86-482-2	2023	86-661-2	1617	86X0012-001	2016	87-0212-1	2016	91A04	1114
86-75-3	1104	86-247-2	1617	86-483-2	1617	86-663-2	2020	86X0016-001	2023	87-0218-U	2016	91A05	1104
86-75-3(SEARS)	1104	86-250-2	1617	86-483-3	1617	86-665-2	2041	86X0016-001A	2023	87-0228	2020	91A06	1104
86-76-1	1122	86-251-2	2023	86-484-2	1617	86-665-9	2041	86X0019-001	1617	87-0229	2027	91A018	1104
86-77-1	1122	86-251-20	2023	86-485-2	1617	86-669-2	2023	86X0022-001	1617	87-0230	2016	91B	2016
86-78-1	1122	86-255-2	1617	86-486-2	1617	86-674-2	2030	86X0025-001	1617	87-0230-1	2016	91BGRN	2016
86-78-3	1104	86-256-2	1617	86-488-2	2016	86-675-2	2030	86X0025-001(TIK)	2009	87-0235	2009	91C	1617
86-80-1	1104	86-262-2	2016	86-490-2	2016	86-702-2	1617	86X0029-001	1617	87-0235-C	2058	91D	1617
86-80-3	1104	86-263-1	2055	86-491-2	2016	86-1292	1617	86X0031-001	1617	87-0235A	2009	91E	1617
86-84-1	1104	86-263-2	2016	86-493-2	1617	86-5000-3	1104	86X0031-002	1617	87-0235B	2009	91F	2016
86-85-1	563	86-264-2	1617	86-494-2	1617	86-5001-3	1104	86X0031-003	1617	87-0235C	2009	91N1	1123
86-88-3	1123	86-265-2	1617	86-495-2	1617	86-5002-3	1104	86X0032-001	1617	87-0238	2016	91NTR	2016
86-89-1	1104	86-266-2	2030	86-496-2	1617	86-5003-3	1104	86X0034-001	2009	87-5-3	1101	91TB	2016
86-89-3	1104	86-267-2	2030	86-500-2	2023	86-5006-3	1104	86X0035-001	2030	87-10-0	1123	92-1	1123

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
92-11-1	1104	93A104-1	1104	93B52-27	1114	93C60-5	1122	96-5022-1	1104	96E2SC1213	2009	100-11	1122
92-44-1	1122	93A104-2	1104 N6	93B53-1	1104	93C60-6	1122	96-5023-01	1104	96ESM-1A-04[illegible]	1104	100-12	1123
92-1001	1123	93A105-1	1123	93B53-2	1101	93C60-7	1104	96-5046-01	1104	96M(AIRLINE)	2016	100-13	1104
92A11-1	1104	93A110-1	1123	93B60-8	1122	93C60-9-55	1104	96-5059-01	1123	96N927	2016	100-14	562
92B12-2	1104	93A112-1	1114	93B64-1	1122	93C60-21	1104	96-5080-02	1617	96N932	2016	100-15	1104
92L102-2	1104	93A120	1104	93B64-2	1122	93C60-21-55	1104	96-5082-01	1104	96NPT	2016	100-120	1122
92N1	2016	93A664-2	1122	93B65-1	1114	93C60-26	1104	96-5088-01	1104	96XZ0778-44N	1123	100-125	1122
92N1B	2016	93B1-1	1104	93B65-2	1114	93C60-27	1104	96-5091-01	563	96XZ0868/15X	1123	100-130	1122
92T6	2016	93B1-2	1104	93B71-1	1114	93C64-1	1122	96-5093-01	1123	96XZ077844N	1123	100-132-00	1104
93-13	1122	93B1-3	1104	93B77-1	1123	93C64-2	1122	96-5093-02	1123	96XZ778/21N	1123	100-136	1123
93-302	1104	93B1-4	1104	93B97-1	1104	93C64-3	1122	96-5093-03	1123	96XZ778/44N	1123	100-137	1122
93A1-20	1104	93B1-5	1104	93B122	1104	93C64-5	1122	96-5094-01	1123	96XZ801/14N	1617	100-138	1104
93A1-21	1104	93B1-6	1104	93B123	1104	93C64-10	1104	96-5095-01	1104	96XZ6030/25N	2016	100-139	562
93A1D-1	1104	93B1-7	1104	93C1-20	1104	93C64-11	1122	96-5103-01	1104	96XZ6052/52N	1617	100-180	1123
93A3D-2	1104	93B1-8	1104	93C1-21	1104	93C64-11H	1122	96-5106-01	1143	96XZ6052-52N	2009	100-181	1123
93A4-2	1104	93B1-9	1104	93C1-2021	1101	93C77-1	1123	96-5107-01	2030	96XZ6053/11N	1617	100-184	1122
93A4-4	1104	93B1-10	1104	93C2-6	1123	93C97-1	1104	96-5107-02	2030	96XZ6053/35N	1617	100-215	1123
93A6-1	1104	93B1-11	1104	93C5-1	1101	93C112-1	1114	96-5109-01	1104	96XZ6053/36N	1617	100-216	1122
93A6-2	1104	93B1-12	1104	93C5-2	1101	93C118-1	1114	96-5109-02	1104	96XZ6053/38N	2030	100-217	1102
93A8-1	1123	93B1-13	1104	93C5-3	1101	93C118-2	1114	96-5110-02	564	96XZ6053-11N	2009	100-435	1122
93A10-1	1104	93B1-14	1104	93C5-4	1101	93C218	1123	96-5110-03	564	98-301	1104	100-436	1123
93A11	1104	93B1-15	1104	93C7-1	1123	93C247	1101	96-5112-01	1114	98A12518	1104	100-438	1102
93A12	1104	93B1-16	1104	93C7-2	1122	93D39-43	563	96-5113-01	1104	98B5-4	1101	100-439	1123
93A12-1	1104	93B1-17	1104	93C7-3	1122	93D39-51	561	96-5115-01	1617	98T2	2009	100-520	1104
93A12-3	1104	93B1-18	1104	93C8-1	1123	93D60-21-55	1104	96-5115-02	1617	99-109-1	1617	100-522	562
93A25-1	1123	93B1-20	1104	93C8-1(,1N60TV)	1123	93ERH-DX0155//	1104	96-5115-03	1617	99-109-2	1617	100-523	562
93A25-2	1123	93B1-21	1104	93C12-1	1104	93ERH-DX0156//	1104	96-5115-04	1617	99L6(SHARP)	2030	100-527	1102
93A25-3	1123	93B2-1	1104	93C12-2	1104	93EVHD1N4148//	1122	96-5115-05	1617	99P1	2023	100-10121-05	1104
93A25-B	1123	93B8-1	1123	93C12-3	1104	93L5-1	1104	96-5117-01	2041	99P1M	2023	100-10132-00	1104
93A27-1	1123	93B12	1104	93C16-2	1104	93L5-3	1114	96-5117-91	2041	99P6	2023	100A	1104
93A27-2	1104	93B12-1	1104	93C18-1	1114	93L5-4	1104	96-5118-01	1122	99P10	2023	100C	1114
93A27-3	1122	93B12-2	1104	93C18-2	1114	93L5-5	1114	96-5131-01	2016	99S012	1617	100C-4R	1104
93A27-8	1122	93B12-3	1104	93C19-1	1104	93L5-6	1104	96-5133-01-02	563	99S012A	1617	100D10	1114
93A30-1	1104	93B19-1	1101	93C21-1	1123	93L5-7	1104	96-5133-02	563	99S012E	1617	100K10	1114
93A30-3	1104	93B24-1	1104	93C21-2	1123	93L5-8	1114	96-5149-01	1143	99S016	2016	100N1	2016
93A31-1	1122	93B24-2	1104	93C21-3	1123	93L101-2	1104	96-5152-01	1617	99S016-1	2016	100N1AS	2016
93A33-1	1123	93B24-3	1104	93C21-4	1123	93L102-2	1104	96-5152-03	1617	99S017	2016	100N1P	2016
93A38-1	1123	93B25-1	1123	93C21-5	1123	93L103-4	1104	96-5153-01	1617	99S018	2016	100N1P(SOUND)	2009
93A39-3	562	93B25-2	1123	93C21-6	1123	93L104-5	1114	96-5153-03	1617	99S018A	2016	100N1P(VID)	2016
93A39-12	563	93B25-3	1123	93C21-7	1123	93L107-2	1104	96-5162-03	2041	99S019	2016	100N3	2009
93A39-13	1617	93B27-1	1123	93C21-8	1123	93P1AA	2023	96-5162-04	2041	99S019A	2016	100N3P	2016
93A39-17	2016	93B27-2	1104	93C24-1	1104	93SC165	2041	96-5163-01	2016	99S019B	2016	100R1B	1104
93A39-24	564	93B27-3	1123	93C24-2	1104	93SC165133	2041	96-5164-02	2041	99S020	1617	100R2B	1104
93A39-43	563	93B27-4	1122	93C24-3	1104	93SC165133A	2041	96-5164-03	2041	99S025	2009	100R3B	1104
93A41-2	1123	93B27-5	1122	93C24-4	1104	93T6	2016	96-5166-01	1104	99S025A	1617	100R4B	1104
93A41-5	1123	93B30-1	1104	93C25-2	1123	93T4100203100	2009	96-5170-01	2030	99S031	2016	100R5B	1104
93A42-1	1104	93B30-3	1104	93C25-3	1123	93T4105002132	2020	96-5174-01	2016	99S032	2016	100R6B	1104
93A42-2	1104	93B34-2	1104	93C25-4	1104	93T4120265210	562	96-5175-01	2016	99S032(3RD-LF)	2009	100R7B	1114
93A42-7	1104	93B38-1	1123	93C26-1	1104	93T4120280156	1123	96-5177-01	1617	99S033	2016	100R8B	1114
93A42-8	1104	93B38-5	1123	93C26-2	1104	93T4120290136	1123	96-5178-01	1114	99S033-40	2009&23	100R9B	1114
93A45-1	1104	93B39-1	562	93C26-3	1104	93T4130040052	1104	96-5180-01	2030	99S035	1617	100R10B	1114
93A45-2	1104	93B39-2	565	93C26-4	1104	93 24.401	1123	96-5180-02	2030	99S036	1617	100T2	2041
93A47	1104	93B39-3	562	93C26-5	1104	93 24.601	1123	96-5184-01	1143	99S036(TELEDYNE)	2030	100T2A	2041
93A48-1	1122	93B39-12	563	93C26-6	1101	93 24.604	1123	96-5187-01	1617	99S037	2016	100W1	2016
93A48-2	1104	93B39-13	563	93C26-8	1104	94 42-9	1123	96-5193-01	1114	99S038	1617	100X6	2041
93A51-3	1104	93B41	1123	93C27-1	1123	94-1066-1	1104	96-5194-01	1114	99S039	2023	100X6A	2041
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168J2	1114	176-073-9-001	2016	195P2	2027	202-5-9531-01010	1122	217-1	2016	229-0190-30	2016	250R4B	1144
168N1	1617	176-074-9-001	2041	195P4	2027	203	1104	217-76-02	1104	229-0190-31	2016	251-2	1122
170(RCA)	2016	176-074-9-004	2009	196-634	1104	203-2	1104	217N1D	2041	229-0190-90	1617	252-2	1122
170-1	1122	176-075-9-001	2016	200	1104	203-3	1102	217N2C	2041	229-0191-29	2016	254-0102-119	2016
170-9	2030	176-075-9-003	2009	200-007	2016	203-5-4570-73452	2009	218-22	1617	229-0191-30	2016	254-11	563
171-1	1104	176-075-9-004	2009	200-010	2016	203-5-4570-73462	2009	218-23	1617	229-0192-19	2016	254GI	1104
171-2	1102	177-006-9-001	2023	200-011	2030	203-5-4921-01270	2009	218-24	1617	229-0192-20	2035	260-2	1104
172-003-9-001	2041	177-006-9-002	2023	200-015	2016	203-5-5000-53660	2009	218-25	1617	229-0204-4	2016	260-10-006	2035
172-003-9-001A	2041	177-007-9-001	2023	200-016	1617	203-5-5000-53664	2009	218-26	2030	229-0204-6	2016	260-10-016	2023
172-006-9-001	2017	177-012-9-001	2023	200-052	2023	203-5-5100-53440	2009	220-001001	1617	229-0204-6(VHF)	2016	260-10-020	2009
172-011-9-001	2020	177-018-9-001	2027	200-053	2035	203-5-5211-57069	2016	220-001002	1617	229-0204-23	2016	260-10-021	2009
172-014-9-001	2020	177-019-9-001	2023	200-055	2016	203-5-5211-57079	2016	220-001011	2016	229-0210-14	2016	260-10-023	1102
172-014-9-002	2020	177-020-9-001	2023	200-056	2016	203-5-7000-72770	2023	220-001012	2016	229-0210-19	2016	260-10-039	2016
172-031-9-003	2020	177-023-9-001	2027	200-057	1617	203-5-8620-32530	2017	220-003001	1104	229-0214-40	2016	260-10-042	2016
172-044-9-001	2020	177-025-9-001	2023	200-058	1617	203A6137	561	220-008001	2035	229-0220-9	2016	260-10-046	561
173-1	2035	177-025-9-002	2023	200-064	2035	203X3189-408	2055	221-93	007	229-0220-19	2016	260-10-048	1123
173-1(SYLVANIA)	2035	179-1	1122	200-076	2020	205-5-9040-44210	1122	221-101-01	1771	229-0240-25	2016	260-10-052	2009
173A3981	1104	179-2	1122	200-846	1617	205A2-333	2009	221-121	1712	229-0248-45	2016	260-10-054	2020
173A3981-1	1104	180-1	1104	200-862	1617	207A9	2016	221-129	1711	229-0250-10	2016	260-10-056	2016
173A4391	2030	180N1	2009	200-863	1617	207A10	1617	221-129A-01	1711	229-0260-18	2016	260-41-011	1122
173A4393	1104	180N1P	2058	200-6582	1114	207A31	2009	221-166-04	1771	229-180-22	2016	260-41-047	1122
173A4394-1	1122	180T2	2041	200R1B	1114	207A32-B	1030	221-240	038	229-485-2	2016	260D00567	1123
173A4399	1617	180T2A	2041	200R3B	1144	207E(SCR)	1020	221-Z9020	1740	229-1054-5	1104	260D03701	2016
173A4416	1617	180T2B	2041	200R7B	1114	207V073C04	2023	221-Z9024	036	229-1054-9	1104	260D03704	2016
173A4424	1101	180T2C	2041	200R8B	1114	209-1	2023	221-Z9042	1723	229-1054-82	1104	260D03707	2016
173A4470-11	1617	181-1	1122	200R9B	1114	209-20	2030	221-Z9043	1779	229-1054-83	1104	260D03721	2009

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260D07412	1617	260P11303	1617	260P36003(,2SA628A-E)		264P10202	1104	276-1152	1152	276-2043/RS2043	2043	296V002H03	1123
260D07901	2030	260P11403	2023		2023	264P10208	564	276-1161	1161	276-2049	2020	296V002H05	1123
260D08013	2016	260P11502	2009	260P36501	2055	264P10403	563	276-1165	1165	276-2051	2009	296V002H06	1123
260D08201	2009	260P11503	2009	260P37108	2020	264P14701	1114	276-1171	1171	276-2055	2055	296V002H07	1123
260D08601	2030	260P11504	2009	260P41604	2009	264P17402	563	276-1173	1173	276-2057	2009	296V002H09	1123
260D08701	2030	260P11505	2009	260P41604(,2SC2274-E)		264P19303	565	276-1180	1180	276-2058	2058	296V002M01	1123
260D08801	1617	260P12001	2009		2009	264P19303		276-1181	1181	276-2059	2009	296V006H02	1123
260D09001	1617	260P12002	2009	260P41905	2009	(,EQA02-05CDB)	565	276-1185	1185	276-2062	2062	296V006H03	1104
260D09301	2041	260P12401	2030	260P41905(,2SC2724-E)		264P19306	563	276-1251	1251	276-2068	2068	296V006H07	1104
260D09314	1617	260P12701	2020		2009	264P19306		276-1252	1252	276-2072	2072	296V007H02	1123
260D09612	2030	260P13604	2009	260P42706	2020	(,EQA02-11CDB)	563	276-1303	1303	276-2074	2074	296V012H01	1123
260D10641	1617	260P13701	2009	260P70403	2016	264P21103	563	276-1603	2009	276-2401	2401	296V015B01	1123
260D13701	2016	260P13702	2009	260P70501	2016	264P21103(,HZ312A)		276-1604	1604	276-2411	2411	296V015H01	1123
260D13702	1617	260P14101	2009	260P70502	2016		563	276-1617	1617	276-2413	2413	296V017H01	563
260D15901	2009	260P14102	1617	260P141103	1617	264P23101	1104	276-1705	1705	276-2417	2417	296V018B01	563
260D15902	2009	260P14103	1617	260Z00109	2016	264P23101(,TVR-1G)		276-1711	1711	276-2449	2449	296V019B01	563
260P0770	2009	260P14104	2030	260Z00209	2016		1104	276-1712	1712	276-2466	2466	296V019B04	563
260P02903	2009	260P14202	2020	260Z00309	2016	264P28501	1104	276-1715	1715	276-2520	2520	296V020B01	1122
260P02903A	2009	260P15201	2023	260Z00401	2009	264P28501(,S5500-D)		276-1718	1718	276-2521	2521	296V020B02	1104
260P02908	2009	260P15202	2023	260Z00402	1617		1104	276-1721	1721	281	1617	296V024B01	1123
260P03201	2016	260P15203	2023	263P06632	2466	264P39802	1123	276-1723	1723	281(SEARS)	1104	296V024B02	1122
260P03201A	2016	260P15701	2009	264-701501	1114	264Z00301	1104	276-1722	1722	290-1003	1122	297L006H01	1617
260P04001	2009	260P16101	2016	264D00101	1122	264Z00701	1123	276-1731	1721	290V02H49	2016	297L006H02	1617
260P04002	2009	260P16301	2016	264D00209	1122	265-1	1617	276-1740	1740	290V034C01	1114	297L007C02	1617
260P04003	2009	260P16302	2016	264D00505	1104	265D00702	1122	276-1770	1770	291-04	1104	297L007H01	1617
260P04004	2009	260P16304	2009	264D00507	561	265Z00101	1122	276-1771	1771	291-20	1104	297L007H02	1617
260P04502	2009	260P16502	2023	264D00612	1123	266-1	1122	276-1772	1772	292-10	1104	297L007H03	1617
260P04503	2009	260P16503	2023	264D00701	1123	266-1F	1122	276-1778	1778	294	2023	297L007H03/C03	2009
260P04505	2009	260P16504	2023	264D00801	1123	266P00101(XSTR)	2009	276-1783	1784	294-42-9	1123	297L008C02	2030
260P05402	2016	260P16603	2023	264D00901	1123	269M01201	1122	276-1784	1784	294-92-2	2009	297L008H01	2030
260P05402A	2016	260P17002	2030	264D0701	1123	276-007	007	276-1786	1786	295-01	1122	297L010C01	2023
260P05801	2016	260P17101	2009	264D01001	1123	276-018	018	276-1787	1787	295-02	1104	297L012C01	2023
260P05901	2016	260P17102	2009	264D01112	1104	276-021	021	276-1796	1796	295-1	1122	297L013B01	1617
260P05901A	2016	260P17103	2009	264P0080	1123	276-022	022	276-1797	1797	295-95-1	1712	297L013B02	2023
260P06901	2016	260P17104	1617	264P00401	1123	276-025	025	276-1801	1801	295L001H01	1104	297V019B04	563
260P06902	2016	260P17105	2009	264P00601	1104	276-026	026	276-1802	1802	295L001M01	1104	297V027C01	1104
260P06903	2016	260P17106	2009	264P00602	1114	276-030	030	276-1805	1805	295L001M02	1104	297V049H01	1617
260P06904	2009	260P17201	2016	264P00801	1123	276-033	033	276-1808	1800	295L002H01	1104	297V049H03	1617
260P07001	2009	260P17501	2009	264P01011	1104	276-035	035	276-1822	1822	295L003M01	1104	297V049H04	1617
260P07002	2009	260P17502	2009	264P01012	1104	276-036	036	276-2009	2009	295V002H01	1104	297V049H05	1617
260P07004	2016	260P17503	2009	264P01301	1123	276-0368	036	276-2009/RS2009	2009	295V005H01	1104	297V049H06	2030
260P07301	2009	260P17601	2016	264P01305	1123	276-037	037	276-2010	2016	295V005H03	1123	297V050H01	1101
260P07701	2009	260P17602	2016	264P01306	1123	276-038	038	276-2010/RS2010	2009	295V006H01	1104	297V050H02	1101
260P07702	2009	260P17603	2016	264P01350	1123	276-041	041	276-2011	2016	295V006H02	1104	297V059H01	1617
260P07703	2009	260P17603(,2SC763C)		264P02001	1104	276-053	053	276-2011/RS2011	2016	295V006H03	1104	297V059H02	1617
260P07704	2009		2016	264P02402	1104	276-065	065	276-2013	1617	295V006H05	1104	297V059H03	1617
260P07705	2009	260P17701	2009	264P02501	565	276-066	066A	276-2013/RS2013	1617	295V006H07	1104	297V061C01	2041
260P07707	2009	260P17702	2016	264P02503	562	276-066A	066A	276-2014	2009	295V006H09	1104	297V061C01A	2041
260P07901	2016	260P17704	2009	264P03001	1104	276-068	068	276-2014/RS2014	2009	295V007H02	1104	297V061C02	2041
260P08001	2016	260P19101	1617	264P03301	561	276-069	069	276-2015	2016	295V008H01	1104	297V061C02A	2041
260P08201	2023	260P19108	2055	264P03303	563	276-075	075	276-2015/RS2015	2016	295V012H01	1104	297V061C03	1617
260P08401	2016	260P19501	1617	264P03607	1104	276-081	081	276-2016	2016	295V013H02	1104	297V061C04	1617
260P08801	2009	260P19503	2016	264P03701	1104	276-116	116	276-2016/RS2016	2009	295V013H03	1104	297V061C05	2030
260P08801A	2009	260P21102	2017	264P03702	1114	276-124	124	276-2017	2017	295V013H05	1104	297V061C06	1617
260P08901	2055	260P21308	2017	264P03802	1123	276-134	134	276-2017/RS2017	2020	295V014H01	1104	297V061C07	1617
260P09201	2016	260P21608	2055	264P04003	564	276-142	142	276-2019	2020	295V014H04	1104	297V061H01	1617
260P09501	2055	260P22001	2035	264P04301	1104	276-143	143	276-2019/RS2019	2020	295V014H7	1104	297V061H02	1617
260P09508	2055	260P22002	2035	264P04303	1114	276-145	145	276-2020	2020	295V015H02	1104	297V061H03	1617
260P09701	2055	260P24008	2041	264P04402	1104	276-561	561	276-2022	2023	295V016H01	1104	297V062C06	2030
260P09902	2009	260P24308	2055	264P04501	1122	276-562	562	276-2022/RS2022	2023	295V017H01	1104	297V070H49	2016
260P104A1	2009	260P24901	2016	264P04501(,1S2076A)		276-563	563	276-2023	2023	295V020B01	1104	297V072C01	2016
260P1003	2030	260P25504	2023		1122	276-564	564	276-2023/RS2023	2023	295V020H01	1104	297V072C03	2016
260P1060	2016	260P25504(,2SA950Y)		264P04502	1122	276-565	565	276-2024	2023	295V023H01	1104	297V072C04	2016
260P1601	2016		2023	264P04504	1122	276-568	568	276-2024/RS2024	2023	295V027C01	1104	297V072C05	2030
260P1610	2016	260P25601	2023	264P04504(,1S2471)		276-570	570	276-2025	2027	295V027C01-1	1104	297V072C06	1617
260P1760	2016	260P25601(,2SA1115-E)			1122	276-703	703	276-2025/RS2025	2027	295V028C01	1104	297V073C03	2023
260P4002	2009		2023	264P04507	1122	276-705	705	276-2027	2027	295V028C02	1104	297V073C04	2023
260P10003	2030	260P25601(,2SA1115-F)		264P04702	1104	276-1000	1000	276-2028	2035	295V028C03	1104	297V074C01	2016
260P10003A	2030		2023	264P04703	1104	276-1001	1000	276-2030	2030	295V028C04	1114	297V074C02	1617
260P10005	2009	260P28107	2009	264P04801	1104	276-1002	1000	276-2030/RS2030	2009	295V029C01	1104	297V074C03	1617
260P10403	2016	260P28401	2030	264P04901	1104	276-1003	1000	276-2031	2009	295V029C02	1104	297V074C04	1617
260P10501	2016	260P28701	2017	264P05001	1104	276-1020	1020	276-2031/RS2031	2009	295V031B02	1101	297V074C06	1617
260P10502	2016	260P31303	2009	264P05002	1104	276-1067	1067	276-2032	2023	295V031C02	1101	297V074C07	1617
260P10601	2016	260P31402	2009	264P05404	1122	276-1079	1067	276-2032/RS2032	2023	295V035C01	1104	297V074C08	1617
260P10602	2016	260P33108	2055	264P06601	1104	276-1101	1101	276-2033	2009	296-42-9	1123	297V074C09	2016
260P10707(,2SC620-D)		260P33408	2055	264P06606	1104	276-1102	1102	276-2033/RS2033	2009	296-50-9	1617	297V074C10	2030
	2009	260P33802	2009	264P08002	1104	276-1103	1103	276-2034	2023	296-51-9	1617	297V074C12	2030
260P10707(,2SC620-E)		260P33803	2009	264P08801	1102	276-1104	1104	276-2034/RS2034	2023	296-55-9	2009	297V078C01	2016
	2009	260P33804	2009	264P09001	1114	276-1114	1114	276-2035	2035	296-56-9	1617	297V078C02	2016
260P10801	2009	260P33804(,2SC2603-F)		264P09301	563	276-1122	1122	276-2036	2035	296-58-9	2030	297V082B01	2030
260P11101	2016		2009	264P10102	1104	276-1123	1123	276-2039	2041	296-59-9	1617	297V083C01	2023
260P11101A	2016	260P33805	2009	264P10105	1104	276-1141	1141	276-2039/RS2039	2041	296-77-9	2009	297V083C02	1617
260P11102	2009	260P33806	2009	264P10105(,RA-1B)		276-1142	1143	276-2040	2043	296-88	2058	297V083C04	2030
260P11109	2055	260P33806(,2SC2603-G)			1114	276-1143	1143	276-2040/RS2040	2043	296-95-9	2009	297V085C01	1617
260P11302	2009		2009	264P10105(,RM-1B)		276-1144	1144	276-2041	2041	296L002B01	1123	297V085C02	1617
260P11303	2009	260P36001	2023		1114	276-1146	1146	276-2041/RS2041	2041	296L003B01	563	297V085C03	1617
260P11304	1617	260P36002	2023	264P10201	1104	276-1151	1151	276-2043	2043	296V002H01	1123	297V085C04	1617

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297V084C01	2023	324-6005-5	1617	349-1	2030	361K7287(,RGP10J,G22)		394-3135A	2041	417-212	2041	430-87	1617
297V084C02	1617	324-6011	2030	349-2	2009		1104	396-7178P1	2016	417-212A	2041	430-22961	2016
297V084C03	1617	324-6013	2030	350D7216	2009	364-1	2023	398-13222-1	1801	417-213	2016	430-23212	1617
299B09001	1122	325-0025-327	1123	350D7216(,2SC945-P)		364-1(SYLVANIA)	2023	398-13224-1	1802	417-215	2041	430-23221	1617
299D09000	1122	325-0028-84	2016		2009	364-2001	1123	398-13226-1	1801	417-217	1617	430-23223	2030
299D09001(,1S2076A)		325-0028-86	1123	350D7217	2009	364-10043	2035	398-13632-1	1802	417-218	1617	430-23843	2041
	1122	325-0028-87	1123	350D7217(,2SC945-Q)		365-1	1617	398B	1143	417-219	2009	430-23844	2030
299D09005	1122	325-0028-89	1104		2009	366-1	2009	398Z	1114	417-226-1	1617	430-25762	2035
300R1B	1143	325-0031-303	1617	350D7217(,2SC945-T)		366-1(SYLVANIA)	2016	399-5	2020	417-228	1617	430-25763	2016
300R2B	1143	325-0031-304	1617		2009	366-2	2009	399A	1141	417-229	1617	430-25764	2016
300R3B	1144	325-0031-305	1617	350D7217(,2SC945-TQ)		366-2(SYLVANIA)	2016	399B	1143	417-231	2035	430-25765	2016
301-1	1101	325-0031-310	1617		2009	369-2	1104	399C	1143	417-232	1617	430-25766	1617
301-576-4	1801	325-0031-335	1123	350K3516	2023	369-3	1104	399D	1142	417-235	2023	430-25767	2016
301-576-6	2030	325-0031-338	1104	350K3516(,2SA733A)		369HHD	065	400A	1123	417-237	2030	430CL	1617
303-1	2023	325-0034-562	1123		2023	370-1	2055	400C-11958	1104	417-237-13163	2030	432-1	2030
306-1	1617	325-0042-311	1171	350K3516(,2SA733P)		374-1	2035	400D	1123	417-241	2035	433	2009
306-8	2009	325-0042-351	1617		2023	378-1	2035	403-009/07	2041	417-243	2016	433(ZENITH)	1617
307-095-9-002	2411	325-0047-517	1104	350K3517	2023	378-44	2041	403-1	1123	417-244	1617	433-1(SYLVANIA)	2009
307-107-9-003	705	325-0054-312	1104	350K3517(,2SA733A)		378-44A	2041	404-1(SYL)	2009	417-246	2035	433CL	1617
307-113-9-001	2411	325-0076-306	1617		2023	380-2	2055	404-2	2016	417-247	2030	434	2016
307-143-9-004	2035	325-0076-307	1617	350K3517(,2SA733AQ)		380H61	1104	404-2(SYLVANIA)	1617	417-250	2030	434-1	2023
307-152-9-012	2411	325-0076-308	1617		2023	383(IC)	703	405-2	2050	417-252	2035	434-1,,	2023
307A	1104	325-0076-315	1104	350K3517(,2SA733Q)		384A	1104	411-237	2020	417-253	2035	434-4	2023
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523-1500-881	1104	561-2511-520	1122	561-5012-210	1104	561-6802-924	2016	569-0549-623	1748	576-0036-921	1617	610-045-2	2016
523-1500-883	1122	561-2511-535	1104	561-5012-230	1104	561-6802-925	2016	569-0690-500	2441	576-0040-251	2041	610-045-3	1617
523-2003-001	1123	561-2511-538	1123	561-5015-660	1144	561-6803-011	1617	569-0690-501	2411	576-1	2009	610-045-4	1617
523-2003-150	564	561-2511-540	1123	561-5015-662	1104	561-6803-012	2023	569-0690-502	2413	577R819H01	2030	610-069	2016
523-2003-519	565	561-2511-544	1123	561-5016-920	1104	561-6803-013	1617	569-0773-600	1723	580-029	1104	610-069-1	2016
523-2503-150	564	561-2511-555	1123	561-5016-930	1104	561-6803-053	2030	569-0773-610	038	586-2	1617	610-070	1617
523-2503-519	565	561-2511-558	1123	561-5016-940	1104	561-6803-055	2041	569-0773-800	1801	588U	2035	610-070-1	1617
523-4001-001	1114	561-2511-570	1123	561-5016-950	1104	561-6803-115	1617	569-0882-600	1801	595-1	1617	610-070-2	1617
524-457	1123	561-2511-575	1123	561-5016-960	1104	561-6803-135	2023	569-0882-601	1801	595-1(SYLVANIA)	1617	610-070-3	1617
524WHT	1617	561-2511-580	1122	561-5017-640	1104	561-6803-250	2023	569-0882-604	1822	595-2	1617	610-072	2016
525-24	1104	561-2554-560	1122	561-5020-690	1104	561-6803-391	2016	569-0882-606	1822	595-2(SYLVANIA)	1617	610-072-1	2016
525-212	1114	561-2554-570	1122	561-5020-700	1104	561-6803-392	2016	569-0882-647	1803	596-2	1122	610-072-2	2016
525-498	1104	561-2554-571	1122	561-5020-701	1104	561-6803-397	2016	569-0882-690	1800	596-3	1122	610-073	2016
525-877	1123	561-2554-577	1122	561-5020-710	1104	561-6803-416	2009	569-2142-100	1104	600	1104	610-073-1	2016

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610-076	1617	637	2053	664-413C	2023	690V088H48	2016	693GT	1617	753-2000-711	2009	779BLU	2016
610-076-1	1617	638	1617	664-414B	2033	690V088H49	2016	694D	1617	753-2000-735	1617	780WHT	1617
610-076-2	1617	638-1	2030	664-415B	2016	690V088H50	1617	694E	1617	753-2000-870	1617	783RED	2016
610-077	1617	639	2009	666-1	2023	690V088H51	1617	699	1617	753-2000-871	1617	784GRN	2016
610-077-1	1617	639(ZENITH)	1617	667-0045	2035	690V089H46	2016	700-04	2035	753-2001-173	2025	785YEL	1617
610-077-2	1617	639CL	2030	667-009A	2035	690V089H86	2016	700-110	2030	753-2100-001	1617	786	2016
610-077-3	1617	640-1(SYLVANIA)	2020	669	2023	690V089H89	1617	700-113	2041	753-2100-008	1617	787BLU	2016
610-077-4	1617	642-028	1123	675-158	1123	690V089H91	1104	700-133	2023	753-3000-535	2058	791	1617
610-077-5	1617	642-098	1123	676-1	2039	690V092H52	1617	700-134	2009	753-4000-010	2016	791-238	1104
610-078	1617	642-102	1123	680-1	2016	690V092H54	1617	700-135	2009	753-4000-011	1617	791-292	1123
610-078-1	1617	642-119	1123	684-452423-1	1104	690V092H81	1617	700-137	1104	753-4000-024	2035	792-416	1104
610C	1104	642-126	1122	686-0012	2032	690V092H84	1617	700-154	2009	753-4000-101	1617	800-002-00	1123
612	1104	642-132	1123	686-0113	2030	690V092H85	1123	700-155	2016	753-4000-337	1617	800-003-00	1123
612-1	2017	642-174	1617	686-0130	2030	690V092H96	1617	700-156	2009	753-4000-448	2016	800-004-00	563
612-16	2009	642-199	1122	686-0243	2041	690V092H97	1617	700-157	562	753-4000-929	2016	800-005-00	1122
612-16(ZENITH)	2016	642-216	1171	686-143	2041	690V094H17	2041	700-325	2009	753-4001-932	2020	800-006-00	1104
612-16A	2016	642-219	1104	686-143A	2041	690V094H21	1617	700A858-285	1104	753-4004-248	2023	800-008-00	1101
612C	1122	642-221	1123	688-1	1067	690V094H35	1104	700A858-286	1104	753-5751-359	2009	800-010-00	1114
613	2009	642-229	2016	690C092H08	1104	690V097H62	1617	700A858-318	2009	753-5851-359	2009	800-013-00	1104
613(ZENITH)	2016	642-230	2016	690V02H69	2016	690V098H48	1617	700A850-319	2009	753-6000-002	2009	800-014-00	1104
613-72	2016	642-242	1617	690V08H26	2009	690V098H49	1617	700A858-322	1122	753-6300-019	2025	800-014-01	1104
614	1104	642-246	1617	690V010H40	2016	690V098H50	1617	700A858-328	2016	753-8400-220	2016	800-016-00	1122
614(ZENITH)	2016	642-254	2016	690V010H41	2016	690V098H52	1123	702-056-[4]	2009	753-8500-380	2009	800-017-00	1104
614-1	2020	642-255	564	690V028H28	2016	690V098H53	1104	703-1	2030	753-8510-470	2030	800-018-00	1114
614-2	2009	642-260	2016	690V028H48	2016	690V099H79	1617	703-2	2030	753-9000-619	2023	800-018-02	1114
614-3	1617	642-268	2016	690V028H69	2016	690V0103H27	1617	703B	2030	753-9000-839	2009	800-020-00	1123
614-12	2016	642-269	2016	690V028H89	2016	690V68H32	1123	705-600007	1000	753-9000-922	2009	800-021-00	1122
614-118	1122	642-270	2016	690V031H33	1104	690V73H60	1123	707	2020	753-9001-674	2016	800-022-00	1123
614C	1122	642-274	2016	690V034H32	1123	690V102H40	1122	710	1104	753-9001-675	2009	800-023-00	563
615-1	2016	642-275	1122	690V034H74	1123	690V102H71	1617	715EN	1617	753-9010-235	2020	800-024-00	1104
616	1104	642-279	1123	690V037H91	1123	690V103H23	2016	715FE	2016	753-9020-784	2038	800-032-00	1104
616C	1122	642-281	1122	690V037H92	1101	690V103H24	2016	723	1740	753-9030-785	2058	800-035-00	563
617-10	1617	642-306	2030	690V038H72	1114	690V103H25	2016	723C	1740	754-1000-030	1123	800-036-00	1122
617-15	1123	642-319	2016	690V039H23	1114	690V103H26	2016	723CJ	1740	754-2000-001	1122	800-037-00	1114
617-17	1123	642A34074-101	2016	690V039H32	1104	690V103H27	2016	729-3	2030	754-2000-002	1104	800-038-00	1104
617-46	1104	644-405E	2009	690V039H34	1101	690V103H28	2016	733W00039	1808	754-2000-005	1104	800-039-00	1123
617-53	1104	647-1	2055	690V040H63	1123	690V103H29	2009	733W00042	1801	754-2000-009	1123	800-040-00	1122
617-62	1104	649-1	2055	690V041H08	1104	690V103H30	2030	733W00064	1802	754-2000-011	1122	800-041-00	1104
617-63	1617	650	1123	690V047H61	1123	690V103H31	1617	733W00211	2411	754-2009-150	1122	800-042-00	1122
617-64	1617	650-110	1104	690V047H97	1617	690V103H32	2009	734LU	2035	754-2509-150	1122	800-043-00	1114
617-65	2016	651	565	690V049H81	2016	690V103H33	1617	737	2009	754-2720-031	1123	800-045-00	1067
617-66	1104	651-001C	1122	690V052H50	1123	690V103H53	563	737(ZENITH)	1617	754-4000-088	1123	800-046-00	1104
617-67	1617	651-022A	1123	690V053H68	1123	690V103H54	1123	739H01	1617	754-4000-188	1123	800-050-00	1114
617-68	1617	651-023A	1122	690V053H17	1104	690V105H19	2009	740-9007-203	705	754-4000-410	1123	800-051-00	1114
617-71	1617	651C0	565	690V059H42	1122	690V105H-22	2009	740-9037-205	705	754-5000-021	1104	800-01200-506	1104
617-87	1617	651C1	565	690V060H58	2016	690V105H-25	2009	741	007	754-5750-283	1122	800-01400	1104
617-117	2020	651C2	565	690V060H59	2016	690V105H25	2009	741C	007	754-5750-284	1104	800-250-102	1617
617-156	1123	651C3	565	690V066H48	1123	690V105H27	2009	742	1123	754-5900-090	1123	800-362	2020/27
617-161	1617	651C4	565	690V067H09	1123	690V105H28	2058	744	2030	754-9000-473	1122	800-366	2020/27
617-162	1104	651C5	565	690V068H32	1123	690V105H29	2058	748	2009	754-9030-009	562	800-501-00	2009
617-163	1104	651C6	565	690V069H39	1104	690V105H31	1104	748(ZENITH)	1617	754-9033-473	1122	800-501-01	1617
618	1104	651C7	565	690V070H47	2016	690V105H32	562	750-141	1104	754-9053-090	562	800-501-02	1617
618C	1122	651C8	565	690V070H78	2016	690V107H44	1104	750A858-285	1104	756	1104	800-501-03	1617
619	1000	652-003A	1102	690V073H60	1123	690V107H46	2016	750A838-319	2009	767	2009	800-501-04	1617
619-2	1000	652-005A	1101	690V073H62	2030	690V110H30	2016	750A858-328	2016	767(ZENITH)	1617	800-501-11	1617
619-3	1000	652-005B	1104	690V075H68	2016	690V110H31	2016	750A858-448	2020	767CL	1617	800-501-22	1617
619-3(RCA)	1000	652-013A	1173	690V080H36	2016	690V110H32	2016	750C838-123	1617	770-045	2020	800-508-00	1617
620	1104	652-015B	1122	690V080H41	1617	690V110H33	2016	750C838-124	1617	772A	2016	800-509-00	2009
620-1	2023	652C7	561	690V080H47	1104	690V110H34	2030	750C838-125	1617	772B	2016	800-510-00	2041
620-2	2023	652C8	561	690V080H52	1104	690V110H36	2030	750D858-211	1114	772B1	2016	800-510-01	2041
620C	1122	654-1	2033	690V080H54	1114	690V110H88	1123	750D858-212	1617	772BJ	2016	800-512-00	2030
622	1104	654-1(SYLVANIA)	2035	690V080H91	1104	690V110H97	2017	750D838-213	2016	772BL	2016	800-513-00	2030
622-1	2020	654-203B	561	690V081H07	2016	690V114H29	2016	750M63-115	1617	772BM	2016	800-514-00	1617
622-1(RCA)	2020	654-211A	561	690V081H40	1171	690V114H30	1617	750M63-120	1617	772BN	2016	800-515-00	2030
622C	1122	654C9	563	690V081H92	564	690V114H31	2016	750M63-144	1617	772BT	2016	800-517-00	1123
623(RCA)	2020	656-141	1104	690V082H40	1104	690V114H33	1617	750M63-149	1104	772C	2016	800-521-01	1617
623-1	2017	656-142	1123	690V083H89	1123	690V114H36	1104	751-2001-212	1104	772CC	2016	800-521-02	2030
624	1104	660-126	1617	690V084H62	1617	690V116H19	2016	751-4000-88	1123	772D	2016	800-521-03	2030
624(RCA)	2027	660-127	2016	690V084H94	2016	690V116H20	2016	751-6300-001	1104	772D1	2016	800-522-01	1617
624-0009	1104	660-128	2030	690V084H95	2016	690V116H21	1617	753-0101-047	2016	772DC	2016	800-522-02	1617
624-0010	1104	660-131	1617	690V084H96	2016	690V116H22	2035	753-0101-226	2017	772DG	2016	800-522-03	2030
624-0011	1123	660-134	1617	690V086H51	1617	690V116H23	2023	753-1303-801	2009	772E	2016	800-522-04	1617
624C	1122	660-143	2030	690V086H32	2016	690V116H24	2030	753-1375-100	2009	772EM	2016	800-523-01	2023
625-1	2009	660-220	1617	690V086H34	2023	690V116H40	563	753-1644-100	2016	772F	2016	800-523-02	2023
625-1(RCA)	2030	660-221	1617	690V086H87	2016	690V116H41	1104	753-1828-001	1617	772FE	2016	800-524-01	2041
626	1617	660-222	1617	690V086H88	1617	690V118H57	1122	753-2000-003	1617	772G	2016	800-524-02A	2041
626-1	1617	660-225	1617	690V086H90	2030	690V118H58	1104	753-2000-004	1617	773	2009	800-524-03	2041
627-1	2023	660-230	1104	690V086H91	1104	690V118H59	2016	753-2000-007	2009	773(ZENITH)	1617	800-524-03A	2041
629A02	1104	662-010E	2023	690V086H92	1104	690V118H60	2023	753-2000-008	1617	773CL	2030	800-524-04A	2041
630-002	1123	662N007B	2009	690V086H94	2016	690V118H61	2023	753-2000-009	1617	773RED	2016	800-525-04	2023
630-032	1104	664-015B	2020	690V086H95	2016	690V119H14	1104	753-2000-011	1617	774(ZENITH)	2023	800-525-04A	2041
630-076	1617	664-016B	2009	690V086H96	2016	690V119H15	1122	753-2000-100	2016	775BRN	2016	800-526-00	1617
630-079	1122	664-409B	2016	690V088H22	1122	690V120H89	2009	753-2000-101	2023	776-1(SYLVANIA)	2023	800-527-00	2023
633-3	2020	664-410C	2016	690V088H44	2016	690V027H91	1122	753-2000-107	2030	776-2	2023	800-529-00	1617
634	2009	664-410D	2016	690V088H45	2016	693EP	1617	753-2000-460	2016	776-3	2023	800-530-00	1617
634-1	2016	664-412C	2009	690V088H46	2016	693FS	1617	753-2000-535	2058	776GRN	1617	800-530-01	1617
635	2023	664-413B	2016	690V088H47	2016	693G	1617	753-2000-710	2016	777-2	1104	800-533-00	2023

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800-534-00	1617	858GS	1617	903-52	1104	903-467	1122	919-001449-1	1143	921-32A	2016	921-158B	2016
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800-534-01	1617	863-254B	1122	903-54B	1123	903-481	565	919-002240-1	1143	921-33	2016	921-160B	2023
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800-535-01	2035	863-776B	1122	903-58B	1122	903-486	1122	919-002440-1	1114	921-34	2016	921-163B	2017
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800-544-00	1617	880-207-000	1104	903-68	1104	903-509	562	919-004799	1104	921-43B	1617	921-167	2017
800-544-10	1617	880-250-102	1617	903-69	1104	903-510	1104	919-005045	1143	921-43E	2009	921-170B	2016
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800-544-30	1617	880-250-109	1617	903-72B	1122	903-513	565	919-007394	1104	921-46A	1617	921-172B	2016
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800-547-00	2023	881-250-102	1617	903-79B	1104	903-523	1122	919-008862	1143	921-47	1617	921-174B	2016
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800-764	2055	895	2009	903-84B	1122	903-533	563	919-01-0873	1122	921-50B	1617	921-177B	2016
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800-52102	1617	902-001-7-18	2058	903-97B	563	903-545	563	919-01-1213	562	921-58B	2016	921-191B	1617
800-52202	1617	902-002-3-04	2009	903-100B	1122	903-556	1123	919-01-1215	1122	921-59B	2016	921-195B	1617
800-52302	1617	902-003-0-012	2009	903-102	1104	903-557	1122	919-01-1307	1122	921-60B	2030	921-196	2016
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800-52600	1617	902-003-3-17	2009	903-104B	1104	903-560	561	919-01-3058	565	921-62A	2016	921-197B	2023
800-53001	1617	902-003-6-006	2016	903-105B	1104	903-561	1141	919-01-3072	1122	921-62B	2016	921-200B	1617
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2057B2-128	2016	2093A38-14	1123	2093A41-186	562	2139-301-0401	2056	2169-301-2901	1122	2400-27	1104	2584	1617
2057B2-130	1617	2093A38-15	1123	2093A41-187	1123	2139-301-0401		2169-301-2907	1122	2402	1104	2603	2009
2057B2-138	2016	2093A38-16	562	2093A41-189	1104	(,KSC1674R)	2016	2169-301-6309	1104	2402-459	1123	2603-184	1617
2057B2-139	2016	2093A38-21	1123	2093A41-194	565	2139-301-0508	2058	2169-401-0900	562	2402-461	1104	2603-186	1123
2057B2-143	2016	2093A38-22	1123	2093A41-196	1123	2139-301-0809	2009	2169-401-1206	563	2402-462	1104	2603E	2009
2057B2-150	2027	2093A38-24	2030	2093A41-197	1104	2139-301-0906	2009	2169-401-4104	561	2402-463	1104	2603F	2009
2057B2-151	2030	2093A38-27	1123	2093A42-7	1104	2139-301-7202	2009	2169-403-5600	561	2403	1122	2606-294	2016
2057B2-152	1617	2093A38-28	1104	2093A52-1	1114	2139-301-7707	2009	2169-403-7503	563	2405	1122	2606-298	1123
2057B2-153	1617	2093A38-30	1123	2093A69-1	1114	2139-301-8308	2009	2169-404-1807	561	2405-458	1123	2606-299	1104
2057B2-154	1617	2093A38-31	1123	2093A71-1	1114	2139-301-9204	2009	2169-406-4808	1122	2405-459	1104	2606-303	565
2057B2-155	1617	2093A38-32	1123	2093A75-1	1101	2139-301-9901	2009	2179-301-9207	1122	2405-462	1104	2633(RCA)	2016
2057B2-160	2016	2093A38-33	1123	2093A77-1	1123	2139-302-6501	2009	2180-17	1123	2405-463	1104	2634	2016
2057B2-161	2016	2093A38-34	1123	2093A78-1	1114	2139-302-7406	2009	2180-151	2016	2409-17	2017	2634(RCA)	2016

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
2634-1	2016	3028	2016	3526(RCA)	1617	3577	2009	3909	1705	4148(DIO)	1122	4686-173-3	1617
2636	2016	3029	2016	3527	2009	3577(RCA)	2009	3999	1617	4164	2506	4686-179-3	1114
2667	2023	3034	2030	3527(RCA)	2016	3577-1	2009	4001(IC)	2401	4164-2	2506	4686-182-3	2020
2702	1123	3034(RCA)	2030	3527-1	2016	3579	2016	4001-151	1114	4164C	2506	4686-183-3	1617
2703-389	1123	3068	2009	3529	1104	3579(RCA)	2016	4001-236	1123	4167	2009	4686-184-3	1114
2703-390	1104	3069	1104	3529A	1114	3581(RCA)	2023	4001BDC	2401	4167(AIRLINE)	2016	4686-186-3	1114
2704	1123	3069(ARVIN)	1104	3529B	1114	3583	1144	4001BDM	2401	4167(PENNCREST)	2016	4686-189-3	1114
2704-383	1123	3074A21	1104	3529C	1114	3586(RCA)	1617	4001BFC	2401	4167(SEARS)	2016	4686-199-3	1114
2704-389	1104	3107-204-9000	1617	3530	2016	3586-2	2016	4001BFM	2401	4168	2009	4686-201-3	1114
2762	2016	3107-204-90010	1617	3530(RCA)	2016	3588	1617	4001BPC	2401	4168(PENNCREST)	2016	4686-207-3	2016
2763	1104	3107-204-90020	1617	3530-1	2016	3589	1617	4003(SEARS)	1123	4168(SEARS)	2016	4686-208-3	2016
2764	1251	3107-204-90080	2016	3530-2	2016	3591	2030	4003B	2009	4168(WARDS)	2016	4686-209-3	2016
2764-2	1251	3107-204-90100	2016	3532(RCA)	2009	3597	2023	4004(SEARS)	1123	4169	2009	4686-212-3	1114
2764-25	1251	3107-204-90120	2016	3532-1	2030	3597-1	2023	4005(SEARS)	1123	4169(PENNCREST)	2016	4686-224-3	2016
2764-FA5-A2	1251	3111	1617	3535	2009	3597-2	2023	4006(E.F.JOHNSON)		4169(SEARS)	2016	4686-228-3	2016
2764-FA5-A3	1251	3113	1617	3535(RCA)	2016	3598(RCA)	2016		2030	4169(WARDS)	2016	4686-231-3	1617
2764-FC5-A3	1251	3146-977	2041	3536	2009	3601	2030	4006(SEARS)	1123	4309(AIRLINE)	1617	4686-234-3	2020
2766	1104	3152-170	2041	3536-1	2009	3601(RCA)	2009	4007(SEARS)	1123	4310(AIRLINE)	2023	4686-244-3	2016
2774	565	3202-5H01	2030	3536-2	2009	3601-1	2009	4008(SEARS)	1123	4310-(AIRLINE)	2023	4686-251-3	2016
2777	1104	3202-51-01	2030	3537	2009	3603-1	2009	4009(SEARS)	1123	4351 0012	1123	4686-257-3	1617
2779	1104	3217-1	2016	3537(RCA)	2016	3604(RCA)	2016	4010	1617	4351 0013	1123	4689	2030
2784	1104	3301(SEARS)	2016	3538	2009	3604-1	2009	4010(PENNCREST)	1123	4351 0031	1123	4701	2041
2786	1104	3302	2023	3538(RCA)	1617	3608(RCA)	2030	4010(SEARS)	1123	4354	1123	4705	1617
2787	1617	3322-6	1123	3539	2030	3608-1	2030	4011	2023	4354 0012	1104	4706	2016
2788	1123	3370	2016	3539(RCA)	2016	3608-2	2030	4011(IC)	2411	43607	2020	4709	2016
2794	1104	3377	1104	3539-307-001	2016	3608-2(J.C.-PENNEY)		4011(SEARS)	1123	4403	1104	4714	1617
2795A	562	3391	2016	3539-307-002	2016		2030	4011-PC	2411	4442	2023	4715	2041
2796	2009	3391(SEARS)	2016	3540(RCA)	2023	3608-2(J.C.PENNEY)		4011A	2411	4442 366	2020	4715A	2041
2798	2023	3391A	2016	3540-1	2023		2030	4011BDC	2411	4464	1617	4732	1617
2799	2023	3391A(SEARS)	2016	3541	2030	3608-2(RCA)	2030	4011BDM	2411	4465	1617	4733	1617
2802	1114	3483(RCA)	2009	3541(RCA)	1617	3610	2016	4011BFC	2411	4470	1617	4734	1617
2853	2017	3461	2009	3542	2009	3610(RCA)	2016	4011BFM	2411	4470-31	1617	4737	1617
2853-1	2017	3476(RCA)	2016	3543(RCA)	1617	3611	2017	4011BPC	2411	4470-32	1617	4745	2020
2853-2	2020	3492	2009	3544(RCA)	2030	3612	2017	4011PC	2411	4470-33	1617	4748	2016
2853-3	2017	3501	2030	3544-1	2009	3612(RCA)	2020	4012	2030	4470M-32	1617	4756	2016
2854	1617	3505	1123	3546	2009	3614-1	2009	4013(IC)	2413	4473-1	2016	4765	1617
2854-1	2017	3505(AIRLINE)	1122	3546(RCA)	1617	3614-3	2009	4013(RECTIFIER)	1104	4473-2	2016	4768	1617
2854-2	2020	3505(RCA)	1617	3546-1(RCA)	1617	3615	2030	4013BDC	2413	4473-3	2016	4778-8(RCA)	1114
2854-3	2017	3506(RCA)	1617	3546-2(RCA)	1617	3615(RCA)	2030	4013BDM	2413	4473-4	1617	4789	2016
2855-1	2017	3507	2030	3548	2009	3615-1	2030	4013BFC	2413	4473-5	1617	4800-224	1101
2855-2	2030	3507(SEARS)	2016	3548(RCA)	1617	3616-1	2023	4013BFM	2413	4473-5X	1617	4801-0000-001	2023
2855-3	2017	3507(WARDS)	2009	3549(RCA)	2023	3618(RCA)	2016	4013BPC	2413	4473-6	2016	4801-0000-003	2016
2856-1	2017	3508	2030	3549-1(RCA)	2023	3619-1	1000	4014	1104	4473-7	2016	4801-0000-010	2009
2856-2	2020	3508(RCA)	2009	3551(RCA)	1617	3619-2	1000	4014-209-30110	1122	4473-8	2016	4801-0000-016	2009
2856-3	2017	3508(SEARS)	2016	3554	2030	3619-3	1000	4017	2417	4473-9	1617	4801-0000-035	2016
2900-007	2016	3508(WARDS)	2016	3554(RCA)	1617	3620(RCA)	2023	4017(IC)	2417	4473-11	2016	4801-0000-060	2023
2904-003	2009	3509	2016	3555	2030	3620-1	2023	4017BDC	2417	4473-12	1617	4801-00154	1122
2904-032	2030	3509(SEARS)	2009	3555-3	2030	3621(RCA)	2020	4017BDM	2417	4473-M-3	2009	4801-00628	1123
2904-033	2009	3509(WARDS)	2009	3556	2030	3622-1	2030	4017BFC	2417	4473-M3	2030	4801-00629	1123
2904-034	1617	3510	2009	3558	2009	3622-2	2030	4017BFM	2417	4473-M-12	2030	4801-00801	562
2904-035	1617	3510(RCA)	2009	3558(RCA)	1617	3625	2009	4017BPC	2417	4473-N	2030	4801-1100-0011	2009
2904-038	2023	3510(SEARS)	2016	3559(RCA)	2023	3625(RCA)	1617	4021	1617	4483	2030	4802-00002	2016
2904-045	2009	3510(WARDS)	2016	3559-1	2023	3626	1617	4022	2009	4558D	038	4802-00003	1617
2904-053	2009	3511	2016	3560	2009	3627	2023	4034L	2017	4558DD	038	4802-00004	2023
2904-054	2009	3511(SEARS)	2035	3560-1	2030	3627(RCA)	2023	4034S	2017	4558DV	038	4802-00005	2041
2907	2023	3511(WARDS)	2035	3560-1(RCA)	2016	3631	2023	4041-000-1018	1123	4587	2016	4802-00005A	2041
2925	1617	3512(RCA)	2035	3560-2	2030	3631-1	1617	4041-000-10150	1104	4594	1617	4802-00006	1617
2925(E.F.-JOHNSON)		3512(SEARS)	2035	3561	2009	3631-1(RCA)	2020	4041-000-40270	2016	4624	1617	4802-00009	1617
	2009	3512(WARDS)	2035	3561-1	2030	3632-1	2020	4041-000-40300	2016	4630	1617	4802-00010	2035
3001	2016	3513	2023	3562(RCA)	2023	3632-2(RCA)	2017	4041-000-60170	2016	4653	562	4802-00012	1617
3001A	1104	3513(RCA)	2009	3563(RCA)	2023	3637-1	2041	4041-000-60270	2016	4684-127-3	2016	4802-00014	2009
3002	2016	3513(SEARS)	2023	3565(RCA)	2030	3640(RCA)	2020	4041-206-10180	1123	4685-285-3	2016	4802-00015	1617
3003	2016	3513(WARDS)	2023	3565-1	2009	3646-2(RCA)	2016	4041-206-30110	565	4686-82-3	1617	4805-1241-200	1122
3003(SEARS)	2016	3514(SEARS)	2016	3566(RCA)	2030	3657-1	2055	4041-206-40100	1123	4686-91-3	1114	4806-0000-004	1104
3004(SEARS)	2016	3514(WARDS)	2009	3567-2	2020	3657-2	2054	4044(SEARS)	1617	4686-95-2	2016	4806-0000-005	1114
3005(SEARS)	1617	3516(RCA)	2016	3568	2016	3665	2041	4049	2449	4686-97-3	1114	4811-0000-025	2035
3005-861	1617	3516(WARDS)	2016	3568(RCA)	2016	3666(RCA)	2030	4049(IC)	2449	4686-105-3	1114	4815	2023
3006(SEARS)	2009	3518	2016	3568(WARDS)	2016	3666-1	2023	4049B	2449	4686-106-3	1114	4820	2016
3007(SEARS)	1617	3518(RCA)	2016	3569	2016	3669	2055	4049BDC	2449	4686-107-3	2016	4820-0201	1122
3011	2009	3519	1617	3569(RCA)	1617	3676	2009	4049BDM	2449	4686-108-3	2016	4821	2016
3011(E.F.-JOHNSON)		3519(RCA)	1617	3569-1	2009	3676-1	2016	4049BPC	2449	4686-112-3	2016	4822-130-30192	1104
	2009	3519-1	1617	3570	2023	3680-1	2016	4051-300-10150	1104	4686-114-3	2016	4822-130-30254	1104
3011(E.F.JOHNSON)		3519-2	1617	3570(RCA)	2023	3681	2020	4052(RCA)	2059	4686-118-3	2016	4822-130-30259	1104
	1617	3520	563	3570-1	2023	3682	2027	4057	1617	4686-119-3	2016	4822-130-30264	565
3017	2023	3520(DIO)	563	3570P	2023	3683	2041	4066	2009	4686-120-3	2016	4822-130-30281	1123
3018	2016	3520(WARDS)	563	3571	2030	3688	1067	4066(IC)	2466	4686-126-3	2016	4822-130-30284	565
3018(E.F.-JOHNSON)		3521	2030	3571(RCA)	2009	3688-1	1067	4066BDC	2466	4686-127-3	2016	4822-130-30301	1123
	2016	3521(SEARS)	2009	3571-1	2016	3693(ARVINE)	2016	4066BDM	2466	4686-131-3	2016	4822-130-30311	1123
3018(E.F.JOHNSON)		3521-1	2016	3571R	2009	3697-1	2023	4066BPC	2466	4686-132-3	1617	4822-130-30312	1123
	2016	3522(SEARS)	2023	3572	2016	3700-153	1104	4080	2035	4686-139-3	1114	4822-130-30414	1171
3019	2023	3523(SEARS)	2009	3573(RCA)	1617	3703	561	4080-187-0387	2030	4686-140-3	2016	4822-130-40132	2041
3020	2016	3524(RCA)	2016	3573-3	2016	3714H1	2041	4080-866-0006	2023	4686-143-3	1617	4822-130-40182	1122
3021	2016	3524(SEARS)	2023	3574	2023	3714H1A	2041	4080-879-0001	2020	4686-144-3	1617	4822-130-40184	1617
3022	2030	3524-1	2016	3574(RCA)	2023	3819	2035	4085	1617	4686-149-3	1104	4822-130-40214	2016
3023	2016	3524-2	2016	3574-1(RCA)	2023	3819(RCA)	2035	4086	2023	4686-169-3	2016	4822-130-40215	2016
3026	2009	3525(RCA)	1617	3576	2009	3867	1617	4087	2023	4686-171-3	2016	4822-130-40216	2016
3027	2016	3526	2017	3576(RCA)	2016	3881	2016	4101-681	1104	4686-172-3	2016	4822-130-40229	1122

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4822-130-40304	2016	5203RNL	1101	5613-1342C	2016	7005G(LOWREY)	1617	7398-6117P1	1617	7708-1	1114	8000-00006-232	562
4822-130-40311	2016	5205NI	1104	5613-1359(B)	2009	7006	2009	7398-6118P1	1617	7710-1	1114	8000-00006-280	2009
4822-130-40312	2016	5205NL	1104	5613-1359(C)	2009	7014	2009	7398-6119P1	1617	7711-1	1114	8000-00006-281	1122
4822-130-40313	2016	5210DC-1	1143	5613-1359B	2009	7015	2009	7400	1801	7712-1	1114	8000-00009-049	2009
4822-130-40315	2023	5217	1122	5613-1684(Q)	2009	7108	1617	7400/9N00	1801	7713-1	1114	8000-00009-174	2009
4822-130-40317	2016	5222	563	5613-1684(R)	2009	7109	2058	7400-6A	1801	7753DMP	2041	8000-00009-177	2016
4822-130-40318	2016	5224	564	5613-1684(T)	2009	7112	1122	7400-9A	1801	7805	1770	8000-00009-178	2035
4822-130-40333	2009	5226-1	2023	5613-1684H(R)	2009	7113	2009	7400A	1801	7805A	1770	8000-00009-280	2016
4822-130-40354	1617	5226-2	1617	5613-1684T	2009	7115	2016	7400DC	1801	7805C	1770	8000-0004-004	2023
4822-130-40356	2030	5300-82-3	1114	5613-1788(R)	2009	7116	2058	7400PC	1801	7810	2016	8000-0004-P060	1123
4822-130-40361	1617	5300-82-4	1114	5613-1788R	2009	7117	2009	7401-6A	1801	7811	2016	8000-0004-P061	1104
4822-130-40454	1617	5300-86-1	1104	5613-1815(GR)	2009	7118	2016	7401-9A	1801	7812	2016	8000-0004-P061	1122
4822-130-50221	1104	5300-88-1	1104	5613-1923(Y)	2058	7122	2016	7401DC	1801	7812(IC)	1771	8000-0004-P062	1122
4822-130-50228	1173	5300-88-3	1114	5613-4581	2016	7122-5	2009	7401PC	1801	7812A	1771	8000-0004-P063	1123
4825	2058	5300-88-1002	1114	5613-4581C	2009	7123	2016	7404	1802	7812CU	1771	8000-0004-P064	1122
4826	2016	5300-88-1003	1114	5614-330(E)	2020	7124	2016	7404-6A	1802	7813	2016	8000-0004-P065	562
4828-4	1123	5300-88-1004	1114	5614-359C	2020	7125	2016	7404-9A	1802	7814	2016	8000-0004-P066	1122
4837	2016	5300-94-1	1104	5614-360D	2020	7126	2016	7404A	1802	7815	1772	8000-0004-P067	1104
4839	1617	5300-95-1	1104	5631-0A90	1123	7127	2016	7404DC	1802	7815(IC)	1772	8000-0004-P068	1104
4840	1617	5300-98-1	1104	5631-0A90M	1123	7128	2016	7404N	1802	7815CU	1772	8000-0004-P079	2009
4841	1617	5300-99-1	1104	5631-1N34A	1123	7129	2009	7404PC	1802	7816	1617	8000-0004-P080	2035
4842	1617	5300-99-3	1104	5631-1N60	1123	7131	2016	7408	1822	7817	1617	8000-0004-P081	2035
4844	2023	5300-99-4	1104	5631-1N60P	1123	7132	2016	7408-6A	1822	7818	1617	8000-0004-P082	2009
4845	2016	5301-06-1	1104	5631-152076	1122	7133	2016	7408-9A	1822	7921	1143	8000-0004-P085	2009
4851	2016	5301-06-1001	1114	5631-152473	1122	7134	2016	7408A	1822	7962	1104	8000-0004-P086	2009
4852	1617	5301-09-1	1104	5631-20A90	1123	7171	2009	7408DC	1822	7991	2016	8000-0004-P089	2023
4854	1617	5301-11-1001	1114	5631-20A90H	1123	7172	2009	7408N	1822	7992	2009	8000-0004-PO60	1123
4855	2016	5301-13-1	1104	5631-20A90H(1)	1123	7173	2016	7408PC	1822	8000-00003-004	2023	8000-0004-PO61	1122
4857	2058	5301-20-1	1104	5631-MA150	1122	7174	2016	7414	2020	8000-00003-033	2009	8000-0004-PO62	1122
4882	2041	5301-36-T	1114	5632-152226	1104	7175	2016	7420	2027	8000-00003-034	2009	8000-0004-PO63	1123
4904	2016	5303-1	1000	5632-1S2227	1104	7176	2009	7423	2020	8000-00003-035	2009	8000-0004-PO64	1122
4927	2009	5303-2	1000	5632-ERB24-04	1104	7177	2016	7425	2016	8000-00003-036	2009	8000-0004-PO65	562
4937	2016	5361-1N60P	1123	5632-ERB24-06	1104	7178	2016	7426	2016	8000-00003-037	2023	8000-0004-PO66	1122
4943	2023	5380-21	1104	5632-ERC04-04	1114	7206-0	1101	7427	2016	8000-00003-044	1104	8000-0004-PO67	1104
4989	2023	5380-71	1617	5632-S1B01-02	1104	7209A	1101	7428	2016	8000-00003-043	1123	8000-0004-PO68	1104
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5001-014	2009	5380-73	2030	5632-W03B	1102	7212-3	1104	7430	1617	8000-00004-060	1123	8000-0004-PO80	2035
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87757	2009	95216YEL	1617	111920	1104	118294	2023	124047	2023	126715	2023	129938	561
87758	2022	95220	2030	112017	1104	118713	1617	124098	1104	126716	2009	129944	564
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94065	2041	100844	1123	115970	2016	121661(RCA)	1617	125993	1104	129051	2030	131648	2016
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94066	2030	101400	1104	116021([illegible])	1123	121663	1617	125994(RCA)	2016	129143	2058	131844	2016
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132498	2023	138173(,M132)	1104	143940	2009	146848	2058	148754	2068	153399	2009	164602	1778
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
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A4G9	1104	A5T2604	2023	A6H9	1114	A8F	2020	A14N	1114	A65-P11324-0001	1122	A164	2058
A4H1	1114	A5T2605	2023	A6HD	1617	A8G	1617	A14P	1114	A67-07-244	2009	A165	2058
A4H5	1114	A5T2907	2023	A6J	1617	A8K	2020	A14U	1101	A67-08-760	2016	A171	2023
A4H9	1114	A5T3391	2009	A6K	1617	A8L	1617	A15-1007	1123	A67-33-340	2016	A176-025-9-002	2016
A4J	2041	A5T3391A	2009	A6K1	1114	A8P	2041	A15-1008	1104	A67-33-540	2009	A177	2023
A4JBLK	2041	A5T3392	2009	A6K5	1114	A8R	2016	A15A	1143	A67-37-940	2058	A177(A)	2023
A4JBRN	2041	A5T3496	2023	A6K9	1114	A85	2016	A15B	1143	A68-23-560	2020	A177A	2023
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A4K	1114	A5T3505	2023	A6LBLK	2041	A8T404A	2023	A15D	1144	A72-49-600	1122	A178A	2023
A4K1	1114	A5T3565	2009	A6LBLK-1	2041	A8T3391	2009	A15F	1141	A75-68-500	1104	A178AB	2023
A4K5	1114	A5T3638	2023	A6LBRN	2041	A8T3391A	2009	A15U	1114	A-86-3-1	1101	A178B	2023
A4K9	1114	A5T3638A	2023	A6LBRN-1	2041	A8T3392	2009	A15U(DIODE)	1141	A86-3-1	1101	A178BA	2023
A4M	1617	A5T3644	2023	A6LRED	2041	A8T3702	2023	A15U(RECTIFIER)	1141	A-86-4-1	1101	A179A	2023
A4M1	1114	A5T3645	2023	A6LRED-1	2041	A8T3703	2023	A17(I.C.)	1808	A86-4-1	1101	A179AC	2023
A4M5	1114	A5T3707	2009	A6M1	1114	A8T3706	2009	A-18	2041	A-86-9-1	1122	A179B	2023
A4M9	1114	A5T3708	2009	A6M5	1114	A8T3707	2009	A18-4	2041	A90T2	2016	A179BB	2023
A4N	1617	A5T3709	2009	A6M9	1114	A8T3708	2009	A19-020-072	2016	A95-5281	1104	A192	2035
A4P	1617	A5T3710	2009	A6N	2041	A8T3709	2009	A20K	2023	A95-5285	1104	A194	2035
A4R	1617	A5T3711	2009	A6N-6	2041	A8T3710	2009	A20KA	2023	A95-5289	1104	A195	2035
A4S	2041	A5T3751	2030	A6P	2016	A8T3711	2009	A22B	1114	A95-5294	1104	A-195C	2023
A4S-1	2041	A5T3821	2062	A6R	1617	A8T4027	2023	A22B1	1114	A100	1104	A196	2035
A4T	2016	A5T3903	1617	A6S	1617	A8T4029	2023	A22D	1114	A101-A	1104	A200	1104
A4U	1617	A5T3904	1617	A6T	2016	A8T4058	2023	A22D1	1114	A-106	2009	A200-052	2023
A4V	1617	A5T3905	2023	A6T5222	2009	A8T4059	2023	A22M	1114	A108	1617	A211	2017
A4Y-1	2016	A5T3906	2023	A6U	2016	A8T4060	2023	A23	1104	A110	2016	A-231	1104
A4Y-1A	2016	A5T4027	2023	A6V	2016	A8T4061	2023	A24MW594	2016	A111	1617	A244(AMC)	2016
A4Y-2	1617	A5T4029	2023	A6V-5	2016	A8T4062	2023	A24MW595	2016	A112-000172	2023	A245	2016
A4Z	2041	A5T4058	2023	A7-12	2041	A8T5172	2009	A24MW596	2016	A112-000185	2023	A245(AMC)	2016
A5A	2020	A5T4061	2023	A7-13	2041	A8U	2041	A24MW597	2016	A112-000187	2023	A246	1617
A5A1	1104	A5T4062	2023	A7A	1617	A8W	2041	A24T-016-01L	2016	A114A	1104	A246(AMC)	1617
A5A2	1104	A5T4123	2009	A7A1	1114	A8Y	2020	A24T-016-016	2016	A114B	1104	A248(AMC)	2009
A5A5	1104	A5T4124	2009	A7A5	1114	A9A	2016	A25-1007	1123	A114C	1114	A249	1617
A5A9	1104	A5T4125	2023	A7A9	1114	A9B	1617	A25-1008	1104	A114D	1104	A249(AMC)	2030
A5A-IB	2020	A5T4126	2023	A7A30	2016	A9D	2016	A26(W)	1122	A114E	1104	A253	2017
A5B	2030	A5T4248	2023	A7A31	2016	A9E	1617	A31-0206	2016	A114F	1101	A271	2017
A5B1	1104	A5T4249	2023	A7A32	2016	A9F	1617	A46-86101-3	2016	A114M	1104	A272	2020
A5B2	1104	A5T4250	2023	A7B5	1114	A9G	1617	A46-86109-3	2016	A120P1	2023	A273	2020
A5B5	1104	A5T4260	2023	A7B9	1114	A9H	1617	A46-86110-3	2016	A121-1	2023	A275	2017
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A5C	1617	A5T4403	2023	A7C1	1114	A9S	1617	A46-86301-3	2016	A121-444	2023	A277	2020
A5C1	1104	A5T4409	2030	A7C5	1114	A9T	1617	A46-86302-3	2016	A121-446	2023	A297L012C01	2023
A5C2	1104	A5T4621	2023	A7C7	1114	A9U	1617	A46-86303-3	2016	A121-480	2016	A297V073C03	2023
A5C5	1104	A5T5086	2023	A7C9	1114	A9V	2020	A48	1103	A121-495	2023	A297V073C04	2023
A5C9	1104	A5T5087	2023	A7D	1104	A9W	1617	A48-40247G01	2016	A121-496	2023	A300	1104
A5D1	1104	A5T5172	2009	A7D1	1114	A9Y	1617	A48-43351A02	2016	A121-497	2023	A301	1617
A5D2	1104	A5T5209	2030	A7D5	1114	A10A	1104	A48-63078A52	1123	A121-497WHT	2023	A306	1617
A5D5	1104	A5T5210	2030	A7D9	1114	A10B	1104	A48-97046A05	2016	A121-585	2016	A307	1617
A5D9	1104	A5T5219	2009	A7E	1104	A10C	1104	A48-97046A06	2016	A121-585B	2016	A323	1617
A5E1	1104	A5T5220	2009	A7E(TRANSISTOR)	1617	A10D	1104	A48-97046A07	2016	A121-602	2023	A344	1617
A5E2	1104	A5T5221	2023	A7E1	1114	A10E	1104	A48-97127A06	2016	A121-603	2023	A345	1617
A5E5	1104	A5T5223	2009	A7E5	1114	A10G05-010-A	1617	A48-97127A12	2016	A121-679	2023	A346	1617
A5E9	1104	A5T5225	2009	A7E9	1114	A10G05-011-A	1617	A48-97127A18	2016	A121-687	2016	A400	1104
A5F1	1104	A5T5226	2023	A7F1	1114	A10G05-015-D	1617	A48-134789	2016	A121-699	2023	A402(25)	2023
A5F2	1104	A5T5227	2023	A7F5	1114	A10M	1104	A48-134837	2016	A121-746	2023	A-415	2009
A5F5	1104	A5T5447#	2023	A7F9	1114	A10N	1114	A48-134845	2016	A121-774	2023	A415	1617
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A5G1	1104	A5U	1617	A7G1	1114	A11	1122	A48-134904	2016	A122YEL	2023	A417-116	2023
A5G2	1104	A5W	1617	A7G5	1114	A12-1-70	1617	A48-134922	2016	A123-7	1104	A417-132	2023
A5G5	1104	A6A1	1114	A7G9	1114	A12-1-705	1617	A48-134923	2016	A-128	2009	A417-153	2023
A5G9	1104	A6A5	1114	A7H1	1114	A12-1A9G	1617	A48-134924	2016	A128	1617	A417-154	2016
A5H	1617	A6A9	1114	A7H5	1114	A13-0032	2041	A48-134925	2016	A129-34	2023	A417-176	2023
A5H1	1114	A6AK	1114	A7H9	1114	A13-17918-1	2041	A48-134926	2016	A130-149	2023	A417-182	2023

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DEVICE	276-	DEVICE	276-	DEVICE	276	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276
A417-184	2023	A482M	2023	A494Y	2023	A509BL	2023	A530Y	2023	A562-GR	2023	A564S(2S)	2023
A417-192	2016	A482OR	2023	A495	2016	A509C	2023	A535	2023	A562-GRN	2023	A564T(2S)	2023
A417-196	2023	A482R	2023	A495(2S)	2023	A509D	2023	A539(2S)	2023	A562-O(2S)	2023	A564X	2023
A417-200	2023	A482X	2023	A495-O	2023	A509E	2023	A539A	2023	A562-O(JAPAN)	2023	A564XL	2023
A417-201	2023	A482Y	2023	A495-Y	2023	A509F	2023	A539B	2023	A562-O(KOREA)	2023	A564Y	2023
A417-205	2016	A484	2016	A495-GN	2023	A509G	2023	A539C	2023	A562-OR	2023	A565(2S)	2023
A417-225	2023	A484(ADMIRAL)	2016	A495-O(2S)	2023	A509GN	2023	A539D	2023	A562-ORG	2023	A565A(2S)	2023
A418	2016	A486	2016	A495-OF	2023	A509G-O	2023	A539E	2023	A562-R(2S)	2023	A565AB	2023
A419	2016	A488-A0060	1122	A495-OR	2023	A509GR(2S)	2023	A539F	2023	A562-RD	2023	A565B(2S)	2023
A420	2016	A489	2016	A495-ORG	2023	A509GR-1	2023	A539G	2023	A562-RED	2023	A565BA	2023
A422-A	1104	A489(2S)	2027	A495-ORG-G	2023	A509G-Y	2023	A539GN	2023	A562-Y(2S)	2023	A565C(2S)	2023
A427	2016	A489-O(2S)	2027	A495-Q	2023	A509H	2023	A539H	2023	A562-YE	2023	A565D(2S)	2023
A429-5981-12	2016	A489-R(2S)	2027	A495-R(2S)	2023	A509J	2023	A539J	2023	A562-YEL	2023	A565E	2023
A434	1617	A489-Y(2S)	2027	A495-RD	2023	A509K	2023	A539K	2023	A562D	2023	A565F	2023
A445-107-19	2016	A490	2016	A495-RED	2023	A509L	2023	A539L(2S)	2023	A562E	2023	A565G	2023
A466	2030	A490(2S)	2027	A495-RED-G	2023	A509M	2023	A539M	2023	A562G(2S)	2023	A565GN	2023
A467	2023	A490-O	2027	A495-Y(2S)	2023	A509OR	2023	A539OR	2023	A562GR(2S)	2023	A565H	2023
A467(2S)	2023	A490-R	2027	A495-YEL	2023	A509Q	2023	A539R	2023	A562GRN	2023	A565J	2023
A467A	2023	A490-Y	2027	A495-YEL-G	2023	A509R(2S)	2023	A539X	2023	A562O	2023	A565K(2S)	2023
A467B	2023	A490A	2027	A495-YL	2023	A509RD	2023	A539Y	2023	A562Q	2023	A565L	2023
A467C	2023	A490B	2027	A495A	2023	A509T	2023	A542(2S)	2023	A562R(2S)	2023	A565M	2023
A467D	2023	A490C	2027	A495B	2023	A509V	2023	A542A	2023	A562RD	2023	A565OR	2023
A467E	2023	A490D	2027	A495C	2023	A509Y	2023	A542B	2023	A562RED	2023	A565R	2023
A467F	2023	A490E	2027	A495D(2S)	2023	A509Y(2S)	2023	A542C	2023	A562T	2023	A565X	2023
A467G(2S)	2023	A490F	2027	A495E	2023	A509YE	2023	A542D	2023	A562TM	2023	A565Y	2023
A467GN	2023	A490G	2027	A495F	2023	A514-022057	1123	A542E	2023	A562TM-0	2023	A567	2023
A467G-O(2S)	2023	A490GN	2027	A495G	2023	A514-023626	1104	A542F	2023	A562TM-O	2023	A567A	2023
A467G-R(2S)	2023	A490H	2027	A495G-GR(2S)	2023	A514-025607	1104	A542G	2023	A562TMO	2023	A567B	2023
A467G-Y(2S)	2023	A490J	2027	A495GN	2023	A514-027757	1104	A542GN	2023	A562TM-OFA	2023	A567C	2023
A467H	2023	A490K	2027	A495G-O(2S)	2023	A514-028072	1104	A542H	2023	A562TM-Y	2023	A567D	2023
A467J	2023	A490L	2027	A495G-R(2S)	2023	A514-028073	1104	A542J	2023	A562TM-YFA	2023	A567E	2023
A467K	2023	A490M	2027	A495G-Y(2S)	2023	A514-033220	2009	A542K	2023	A562TO	2023	A567F	2023
A467L	2023	A490OR	2027	A495H	2023	A514-033903	1104	A542L	2023	A562TQ	2023	A567G	2023
A467M	2023	A490R	2027	A495J	2023	A514-035594	1104	A542M	2023	A562V	2023	A567GN	2023
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A467R	2023	A490Y(2S)	2027	A495L	2023	A514-040296	2035	A542R	2023	A562Y(2S)	2023	A567H	2023
A467X	2023	A490YA	2027	A495M	2023	A514-042791	1122	A542X	2023	A562Y(JAPAN)	2023	A567J	2023
A467Y	2023	A492	2016	A495O	2023	A514-044910	2023	A542Y	2023	A562Y(KOREA)	2023	A567K	2023
A472	2009	A493(2S)	2023	A495OF	2023	A514-047830	2020	A543(2S)	2023	A562YE	2023	A567L	2023
A-473	2058	A493-GR	2023	A495OR	2023	A514-0339903	1104	A550(2S)	2023	A562YEL	2023	A567M	2023
A473	2016	A493-O(2S)	2023	A495R	2023	A515	2041	A550A(2S)	2023	A562Y-1M	2023	A567OR	2023
A473(2S)	2027	A493-Y	2023	A495RD	2023	A517	2041	A550AB	2023	A564	2023	A567R	2023
A473-GR(2S)	2027	A493A	2023	A495RED	2023	A522(2S)	2023	A550AQ(2S)	2023	A564-0(2S)	2023	A567X	2023
A473-O(2S)	2027	A493B	2023	A495RED-G	2023	A522-3	2041	A550AR	2023	A564-1	2023	A567Y	2023
A473-O(KOREA)	2027	A493C	2023	A495RO	2023	A522A(2S)	2023	A550AS	2023	A564-O(2S)	2023	A568(2S)	2023
A473-R(2S)	2027	A493D	2023	A495W(2S)	2023	A522AL	2023	A550B	2023	A564-OGD	2023	A568-OR	2023
A473-Y(2S)	2027	A493E	2023	A495W1	2023	A522B	2023	A550BC	2023	A564-OR	2023	A568A	2023
A473B	2027	A493F	2023	A495WI	2023	A522C	2023	A550BL	2023	A564-P	2023	A568B	2023
A473D	2027	A493G	2023	A495X	2023	A522D	2023	A550C	2023	A564-Q	2023	A568C	2023
A473GR	2027	A493G-GR	2023	A495Y(2S)	2023	A522E	2023	A550D	2023	A564-R	2023	A568D	2023
A473R	2027	A493GN	2023	A495YEL	2023	A522F	2023	A550P	2023	A564A(2S)	2023	A568E	2023
A473Y(2S)	2027	A493G-Y	2023	A495YEL-G	2023	A522G	2023	A550Q(2S)	2023	A564A(JAPAN)	2023	A568F	2023
A480	2016	A493H	2023	A495YL	2023	A522GN	2023	A550R(2S)	2023	A564AAQ-1	2023	A568G	2023
A480(2S)	2023	A493J	2023	A496	2023	A522H	2023	A550S(2S)	2023	A564AG	2023	A568GN	2023
A480-OR	2023	A493K	2023	A497	2016	A522J	2023	A550Y	2023	A564AK	2023	A568H	2023
A480A	2023	A493L	2023	A502(2S)	2023	A522K	2023	A553	2023	A564AL	2023	A568J	2023
A480B	2023	A493M	2023	A502-O	2023	A522L	2023	A554	2023	A564AP(2S)	2023	A568K	2023
A480C	2023	A493OR	2023	A502-OR	2023	A522M	2023	A554A	2023	A564A-Q	2023	A568L	2023
A400D	2023	A493R	2023	A502-R	2023	A522OR	2023	A555	2023	A564AQ(2S)	2023	A568M	2023
A480E	2023	A493X	2023	A502-Y	2023	A522R	2023	A556	2023	A564A-R	2023	A568OR	2023
A480F	2023	A493Y(2S)	2023	A502A	2023	A522X	2023	A556-142	1123	A564AR	2023	A568R	2023
A480G	2023	A-494	2009	A502B	2023	A522Y	2023	A558	2023	A564AR(JAPAN)	2023	A568X	2023
A480GN	2023	A494	2023	A502C	2023	A523	2041	A559	2023	A564A-S	2023	A568Y	2023
A480H	2023	A494(2S)	2023	A502D	2023	A524	2023	A559A	2023	A564AS(2S)	2023	A569	2023
A480J	2023	A494-GR(2S)	2023	A502E	2023	A526	2023	A561	2023	A564B	2023	A569(2S)	2023
A480K	2023	A494-GR-1	2023	A502F	2023	A530(2S)	2023	A561(2S)	2023	A564C	2023	A569A	2023
A480L	2023	A494-O(2S)	2023	A502G	2023	A530A	2023	A561-0	2023	A564D	2023	A569B	2023
A480M	2023	A494-OR	2023	A502GN	2023	A530B	2023	A561-GR	2023	A564E	2023	A569C	2023
A480OR	2023	A494-Y(2S)	2023	A502H	2023	A530C	2023	A561-GRN	2023	A564F(2S)	2023	A569D	2023
A480R	2023	A494A	2023	A502J	2023	A530D	2023	A561-O(2S)	2023	A564FQ(2S)	2023	A569E	2023
A480X	2023	A494B	2023	A502K	2023	A530E	2023	A561-OR	2023	A564FQ-1	2023	A569F	2023
A480Y	2023	A494C	2023	A502L	2023	A530F	2023	A561-ORG	2023	A564FR-1	2023	A569G	2023
A481	2016	A494D	2023	A502M	2023	A530G	2023	A561-R(2S)	2023	A564G	2023	A569GN	2023
A482	2016	A494E	2023	A502OR	2023	A530GN	2023	A561-RD	2023	A564GN	2023	A569H	2023
A482(2S)	2023	A494F	2023	A502R	2023	A530GR	2023	A561-RED	2023	A564H	2023	A569J(2S)	2023
A482A	2023	A494G	2023	A502X	2023	A530H(2S)	2023	A561-Y(2S)	2023	A564J(2S)	2023	A569K	2023
A482B	2023	A494GN	2023	A502Y	2023	A530H1	2023	A561-YEL	2023	A564K	2023	A569L	2023
A482C	2023	A494GR	2023	A509(2S)	2023	A530HA	2023	A561-YL	2023	A564L	2023	A569M	2023
A482D	2023	A494H	2023	A509-0	2023	A530HB	2023	A561GRN	2023	A564M	2023	A569OR	2023
A482E	2023	A494J	2023	A509-O(2S)	2023	A530HC	2023	A561R	2023	A564OR	2023	A569R	2023
A482F	2023	A494K	2023	A509-OR	2023	A530J	2023	A561RD	2023	A564P(2S)	2023	A569X	2023
A482G	2023	A494L	2023	A509-R	2023	A530K	2023	A561RED	2023	A564P-A	2023	A569Y	2023
A482GN	2023	A494M	2023	A509-RD	2023	A530L	2023	A561Y	2023	A564Q(2S)	2023	A570(2S)	2023
A482H	2023	A494O	2023	A509-Y(2S)	2023	A530M	2023	A561YEL	2023	A564QP	2023	A570A(TRANS)	2023
A482J	2023	A494OR	2023	A509-YE	2023	A530OR	2023	A561YL	2023	A564QR(2S)	2023	A570B(TRANS)	2023
A482K	2023	A494R	2023	A509A	2023	A530R	2023	A562	2023	A564QRS	2093	A570C(TRANS)	2023
A482L	2023	A494X	2023	A509B	2023	A530X	2023	A562-0	2023	A564R	2023	A570D(TRANS)	2023

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
A570E(TRANS)	2023	A609F(2S)	2023	A641R	2023	A668-O	2030	A678J	2023	A719S(2S)	2023	A768	2027
A570F	2023	A609G(2S)	2023	A641S	2023	A668-ORG	2016	A678K	2023	A720(2S)	2023	A768G	2027
A570G	2023	A609GN	2023	A641Y	2023	A668-Y	2009	A678L	2023	A720-G	2023	A768O	2027
A570GN	2023	A609J	2023	A642	2023	A668-YEL	2016	A678M	2023	A720-O	2023	A768Y	2027
A570H	2023	A609K	2023	A642(2S)	2023	A669-G	2009	A678OR	2023	A720-Q	2023	A772B1	2016
A570J	2023	A609L	2023	A642-254	2016	A669-GRN	2016	A678R	2023	A720-R	2023	A772EH	2016
A570K	2023	A609M	2023	A642-260	2016	A669-Y	2009	A678X	2023	A720A	2023	A772FE	2016
A570L	2023	A609OR	2023	A642-268	2016	A669-YEL	2016	A678Y	2023	A720B	2023	A774	2023
A570M(TRANS)	2023	A609R	2023	A642A(2S)	2023	A670(2S)	2027	A679(2S)	2043	A720C	2023	A774A	2023
A570OR	2023	A609Y	2023	A642B(2S)	2023	A670A(2S)	2027	A679-R	2043	A720D	2023	A782	2023
A570R	2023	A610	2023	A642C(2S)	2023	A670B(2S)	2027	A679-Y	2043	A720L	2023	A786	2023
A570X	2023	A610(2S)	2023	A642D(2S)	2023	A670C(2S)	2027	A680(2S)	2043	A720NC	2023	A786-Q	2023
A570Y	2023	A611	2023	A642E(2S)	2023	A672	2023	A680-R	2043	A720Q(2S)	2023	A786Q	2023
A572	2041	A611(2S)	2023	A642F(2S)	2023	A672A(2S)	2023	A680-Y	2043	A720QR	2023	A786QL	2023
A572(2S)	2023	A615-1012	1123	A642G	2023	A672B(2S)	2023	A685	2023	A720R(2S)	2023	A786R	2023
A572-1	2041	A620	2023	A642GN	2023	A672C(2S)	2023	A691M4	1122	A720S(2S)	2023	A787	2023
A572Y	2023	A621	2023	A642H	2023	A673(2S)	2023	A691M5	1122	A720Y	2023	A788	2023
A573	2023	A628(2S)	2023	A642J	2023	A673-C	2023	A691M5-2	1122	A721(2S)	2023	A798	2023
A575	2023	A628-O	2023	A642K	2023	A673-D	2023	A692T5	1104	A721Q	2023	A800	1114
A576-0001-002	2023	A628-OR	2023	A642L	2023	A673-O	2023	A692T5-0	1104	A721R	2023	A800-523-01	2023
A576-0001-013	2023	A628A(2S)	2023	A642L(2S)	2023	A673-OR	2023	A692X13-4	1123	A721S(2S)	2023	A800-523-02	2023
A578(2S)	2023	A628A(JAPAN)	2023	A642M	2023	A673A(2S)	2023	A692X16-0	1104	A721T(2S)	2023	A800-527-00	2023
A579(2S)	2023	A628AA	2023	A642OR	2023	A673A(JAPAN)	2023	A693	2023	A721U(2S)	2023	A811	2023
A593	1617	A628AD	2023	A642R	2023	A673AB(2S)	2023	A693C	2023	A722(2S)	2023	A811A	2023
A600	1104	A628A-E	2023	A642S	2016	A673AC(2S)	2023	A696(2S)	2023	A722S(2S)	2023	A811C5	2023
A600(RECTIFIER)	1104	A628AE	2023	A642S(2S)	2023	A673AC(JAPAN)	2023	A696D(2S)	2023	A723(2S)	2023	A811C6	2023
A603	2023	A628A-F	2023	A642V	2023	A673AD(2S)	2023	A697(2S)	2023	A723R	2023	A811C7	2023
A603(2S)	2023	A628B	2023	A642W(2S)	2023	A673AK	2023	A697C(2S)	2023	A725(2S)	2023	A811C8	2023
A603A	2023	A628C	2023	A642X	2023	A673AKA	2023	A700(2S)	2027	A725EH2AB1	1114	A812	2023
A603B	2023	A628D(2S)	2023	A642Y	2023	A673AKB	2023	A700B(2S)	2027	A725Y	2023	A812M3	2023
A603C	2023	A628E(2S)	2023	A644L	2016	A673AKC	2023	A700Y(2S)	2027	A726(2S)	2023	A812M4	2023
A603D	2023	A628EF	2023	A644S	2016	A673AKD	2023	A701	2023	A726Y	2023	A812M5	2023
A603E	2023	A628F(2S)	2023	A645L	2016	A673AS(2S)	2023	A701F(2S)	2023	A728	2023	A812M6	2023
A603F	2023	A628G	2023	A645S	2016	A673B(2S)	2023	A701F0	2023	A728A	2023	A812M7	2023
A603G	2023	A628GN	2023	A648(2S)	2043	A673C(2S)	2023	A701FJ(2S)	2023	A733	2023	A825(2S)	2023
A603GN	2023	A628H	2023	A649	2043	A673C(JAPAN)	2023	A701FO(2S)	2023	A733(2S)	2023	A825Q	2023
A603H	2023	A628J	2023	A649A	2043	A673C2(2S)	2023	A702(2S)	2023	A733-P	2023	A825R	2023
A603J	2023	A628K	2023	A649L	1617	A673D(2S)	2023	A704	2023	A733-Q	2023	A825S	2023
A603K	2023	A628L	2023	A649S	1617	A673D(JAPAN)	2023	A704A	2023	A733A(2S)	2023	A826	2023
A603L	2023	A628M	2023	A650	2043	A673E	2023	A704B	2023	A733AK	2023	A826P	2023
A603M	2023	A628OR	2023	A651	2043	A673F	2023	A704C	2023	A733AP	2023	A826Q	2023
A603OR	2023	A628R	2023	A659(2S)	2023	A673G	2023	A704D	2023	A733AP(JAPAN)	2023	A826R	2023
A603R	2023	A628X	2023	A659A	2023	A673GN	2023	A704E	2023	A733AQ	2023	A826S	2023
A603X	2023	A628Y	2023	A659B	2023	A673H	2023	A704F	2023	A733AQ(JAPAN)	2023	A828A	2023
A603Y	2023	A629(2S)	2023	A659D(2S)	2023	A673J	2023	A704G	2023	A733H(2S)	2023	A829	2023
A608	2023	A629A	2023	A659E(2S)	2023	A673K	2023	A704GN	2023	A733IO	2023	A829A	2023
A608(2S)	2023	A629B	2023	A659F(2S)	2023	A673L	2023	A704H	2023	A733IQ(2S)	2023	A829B	2023
A608-0	2023	A629C	2023	A659G	2023	A673M	2023	A704J	2023	A733P(2S)	2023	A829C	2023
A608-C(2S)	2023	A629D	2023	A659L	2023	A673OR	2023	A704K	2023	A733PQ	2023	A829D	2023
A608-E(2S)	2023	A629E	2023	A659P	2023	A673R	2023	A704L	2023	A733Q(2S)	2023	A829E	2023
A608-F(2S)	2023	A629F	2023	A659R	2023	A673X	2023	A704M	2023	A733Q1P(2S)	2023	A829F	2023
A608-O	2023	A629G	2023	A659Y	2023	A673Y	2023	A704OR	2023	A733QP	2023	A833	2023
A608-OR	2023	A629GN	2023	A661(2S)	2023	A675(2S)	2023	A704R	2023	A733R(2S)	2023	A836(2S)	2023
A608A(2S)	2023	A629H	2023	A661-GR	2023	A677(2S)	2023	A704X	2023	A733Y(KOREA)	2023	A836C	2023
A608AE	2023	A629J	2023	A661-O(2S)	2023	A677-0	2023	A704Y	2023	A735	2023	A836D(2S)	2023
A608AF	2023	A629K	2023	A661-R	2023	A677-O	2023	A705	2023	A744(2S)	2043	A836E(2S)	2023
A608B(2S)	2023	A629L	2023	A661-Y	2023	A677-OR	2023	A705(2S)	2023	A745	2043	A836F	2023
A608BL	2023	A629M	2023	A661Y(2S)	2023	A677A	2023	A705A	2023	A745A	2043	A838	2023
A608C(2S)	2023	A629OR	2023	A663(2S)	2043	A677B	2023	A705B	2023	A746(2S)	2043	A838B	2023
A608D(2S)	2023	A629R	2023	A663-BL	2043	A677C	2023	A705C	2023	A747	2043	A838C	2023
A608E(2S)	2023	A629X	2023	A663-R	2043	A677D	2023	A705D	2023	A747(2S)	2043	A841	2023
A608E(JAPAN)	2023	A629Y	2023	A663-Y	2043	A677E	2023	A705E	2023	A747A	2043	A841(2S)	2023
A608F(2S)	2023	A640	2023	A666(2S)	2023	A677F	2023	A705F	2023	A747A(2S)	2043	A841-BL	2023
A608F(JAPAN)	2023	A640(2S)	2023	A666A(2S)	2023	A677G	2023	A705G	2023	A747B	2016	A841-GR	2023
A608G(2S)	2023	A640A(2S)	2023	A666B	2023	A677GN	2023	A705GN	2023	A748	2027	A842	2023
A608GN	2023	A640B(2S)	2023	A666BL	2023	A677H	2023	A705H	2023	A748B	1617	A842(2S)	2023
A608H	2023	A640C(2S)	2023	A666C	2023	A677HL	2023	A705J	2023	A748C	2016	A842-BL	2023
A608J	2023	A640D(2S)	2023	A666D	2023	A677J	2023	A705K	2023	A749	1617	A842-GR	2023
A608K	2023	A640L	2023	A666E	2023	A677K	2023	A705L	2023	A749B	1617	A844	2023
A608KE	2023	A640M(2S)	2023	A666H(2S)	2023	A677L	2023	A705M	2023	A749C	2016	A844(2S)	2023
A608KF	2023	A640S	2023	A666HR(2S)	2023	A677M	2023	A705OR	2023	A750	2023	A844C	2023
A608KF(JAPAN)	2023	A641	2023	A666I	2023	A677OR	2023	A705R	2023	A753(2S)	2043	A844C(JAPAN)	2023
A608L	2023	A641(2S)	2023	A666IQRS(2S)	2023	A677R	2023	A705X	2023	A753-4004-248	2023	A844D(2S)	2023
A608M	2023	A641(PBP)	2023	A666QRS	2023	A677X	2023	A705Y	2023	A754(2S)	2027	A844D(JAPAN)	2023
A608NP	2023	A641A(2S)	2023	A666R(2S)	2023	A677Y	2023	A709	2023	A755(2S)	2027	A844E(2S)	2023
A608OR	2023	A641B(2S)	2023	A666S(2S)	2023	A678(2S)	2023	A714	2043	A755B(2S)	2027	A844F	2023
A608P	2023	A641BL	2023	A666Y	2023	A678-O	2023	A714-L	2043	A755C(2S)	2027	A850	2023
A608R	2023	A641C(2S)	2023	A667-G	2009	A678-OR	2023	A714L	2043	A758	2043	A854	2023
A608SP	2023	A641D(2S)	2023	A667-GRN	2016	A678A	2023	A718(2S)	2023	A758(2S)	2043	A854-Q	2023
A608X	2023	A641G	2023	A667-O	2030	A678B	2023	A719(2S)	2023	A758A	2043	A854G	2023
A608Y	2023	A641GR	2023	A667-ORG	2016	A678C	2023	A719-Q	2023	A758B	2043	A854Q	2023
A609(2S)	2023	A641K	2023	A667-RED	2016	A678D	2023	A719K	2023	A759(2S)	2023	A854Q(JAPAN)	2023
A609A(2S)	2023	A641L	2023	A667-Y	2009	A678E	2023	A719NC	2023	A759A	2023	A854QE	2023
A609B(2S)	2023	A641L(2S)	2023	A667-YEL	2016	A678F	2023	A719O	2023	A759B	2023	A854R	2023
A609C(2S)	2023	A641M(2S)	2023	A667RED	2016	A678G	2023	A719PQR	2023	A760	2023	A855	2023
A609D(2S)	2023	A641O	2023	A668-G	2009	A678GN	2023	A719Q(2S)	2023	A763	2023	A856	2023
A609E(2S)	2023	A641OR	2023	A668-GRN	2016	A678H	2023	A719R(2S)	2023	A767	2023	A856A	2023

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276	DEVICE	276-	DEVICE	276-	DEVICE	276-
A859	2023	A991-01-1316	2016	A1164	2023	A3574	2023	A124707	2023	A6317440	2009	A6848520	2020
A866	2023	A991-01-1319	2023	A1170	2016	A3581	2023	A126715	2023	A6317460	2009	A7000980	1123
A866V	2023	A991-01-3058	2023	A1174	2023	A4086	2023	A126718	2023	A6317460(,2SC1815-GR)		A7001800	1123
A866VG	2023	A993	2023	A1175	2023	A4087	2023	A126719	2023		2009	A7001957	1123
A868	2023	A999	2023	A1175(JAPAN)	2023	A4126	2023	A129509	2016	A6317480	2009	A7109890	561
A869	2023	A999L	2023	A1175-F	2023	A4212-A	1104	A129510	2016	A6317480(,2SC1815BL)		A7110023	565
A870	2023	A1000	1114	A1175E	2023	A4212A	1114	A129511	2016		2009	A7110040	565
A876HA	2023	A1001	2043	A1175F	2023	A4310	2023	A129512	2016	A6317520	2009	A7110041	565
A876HB	2023	A1002	2043	A1175F(JAPAN)	2023	A4442	2023	A129513	2016	A6317526	2009	A7110055	561
A876HC	2023	A1004	2023	A1175FH	2023	A4745	2023	A129571	2016	A6317526		A7110076	561
A880	2023	A1005	2023	A1175H	2023	A4789	2016	A129572	2016	(,2SC1815-OFA)	2009	A7110077	561
A882	2043	A1012	2027	A1175H(JAPAN)	2023	A4802-00004	2023	A129573	2016	A6317540	2009	A7110263	562
A888	2023	A1012-Y	2027	A1175J	2023	A4815	2023	A129574	2016	A6317547	2009	A7110410	563
A889	2023	A1012Y(JAPAN)	2027	A1214	2023	A4822-130-40148	2023	A129697	2023	A6317547(,2SC1815-Y)		A7110411	563
A890	2023	A1015	2023	A1230	2016	A4844	2023	A129699	2023		2009	A7110412	563
A891	2023	A1015-0	2023	A1246	2023	A4851	2016	A130139	2023	A6317547		A7110509	564
A901	2023	A1015-O	2023	A1246R	2023	A5226-1	2023	A-132591	1143	(,2SC1815-YFA)	2009	A7150041	1122
A902	2023	A1015-O(JAPAN)	2023	A1246S	2023	A5640R	2023	A-134166-2	563	A6317560	2009	A7150258	1122
A903	2023	A1015-O(KOREA)	2023	A1246S(JAPAN)	2023	A8405	2023	A190429	2023	A6317562	2009	A7150351	1122
A906	2023	A1015-OFA	2023	A1246T	2023	A8540	2023	A489751-028	2023	A6317567	2009	A7246602	1122
A906(2S)	2023	A1015-Y	2023	A1246U	2023	A8867	2023	A489751-031	2023	A6317567		A7246602(,151553(TV))	
A909-1015	1123	A1015-YFA	2023	A1264T	2023	A9218	1122	A610074-1	2023	(,2SC1815-GRFA)	2009		1122
A909-1016	1123	A1015FA	2023	A1314	2030	A9228-3	1122	A610083	2023	A6317567(,2SC1815GR)		A7246653	1122
A909-1017	1123	A1015G	2023	A1341	2030	A10105	1104	A610083-1	2023		2009	A7246653(,151554)	
A909-1018	1104	A1015GR	2023	A1379	1617	A10113	1104	A610083-2	2023	A6317581	2009		1122
A909-1019	1104	A1015GR(JAPAN)	2023	A1380	1617	A10118	1104	A610083-3	2023	A6317581(,2SC1815-BL)		A7246700	1122
A909-27125-160	2016	A1015O	2023	A1412-1	1617	A10164	1104	A610110-1	2023		2009	A7246703	1122
A916-31025-58	2016	A1015Y	2023	A1418	2016	A10165	1104	A610120-1	2023	A6317900	2055	A7246711	1122
A921-59B	2016	A1015Y(JAPAN)	2023	A1460	2016	A10169	1104	A631790L	2055	A6317901	2055	A7246711(,151555(TV))	
A921-62B	2016	A1015Y(KOREA)	2023	A1462	2016	A11744	2035	A650232E	2023	A6319300	2009		1122
A921-63B	2016	A1016	2023	A1472-19	1617	A11745	2035	A650235G	2023	A6319302	2009	A7246727	1122
A921-64B	2016	A1016K	2023	A1518	2016	A12594	2023	A650238A	2023	A6319302(,2SC1959-Y)		A7249601	1122
A921-70B	2023	A1023	2023	A1519	2016	A-12791	2020	A650372D	2023		2009	A7275400	1122
A927	2023	A1023P	2023	A1520	2016	A12880	2023	A650923F	2023	A6321241	2009	A7283550	1122
A929	2023	A1023Q	2023	A1521	2016	A20371	1123	A650925H	2023	A6333751	2055	A7286100	561
A929G	2023	A1025D	2023	A1558-17	2023	A20372	1617	A670720K	2009	A6502380	2023	A7286107	561
A929H	2023	A1025E	2023	A-1567	1617	A22008	2023	A670722D	2009	A6509120	2023	A7286120	561
A930	2023	A1026	2023	A1567	1617	A24015	1122	A670729B	2009	A6509121	2023	A7287500	563
A933	2023	A1026(2S)	2023	A1567-1	1617	A24100	1617	A673351K	2009	A6509121		A7287513	563
A933AQ	2023	A1027(2S)	2023	A1844-17	2023	A30270	2023	A673354K	2009	(,2SA562TM-O)	2023	A7509201	1104
A933AR	2023	A1027R	2023	A-1854-0492-1	1617	A30290	2023	A673355H	2009	A6509140	2023	A7547053	1104
A933Q	2023	A1028	2043	A1867-17	2023	A36508	1123	A673355K	2009	A6509141	2023	A7568160	1104
A933Q(JAPAN)	2023	A1029	2023	A1946	1104	A36539	563	A675419H	2016	A6509141		A7568250	1104
A933QY	2023	A1029B	2023	A2057A2-198	2023	A41440	2023	A701584-00	2023	(,2SA562TM-YFA)	2023	A7568300	1104
A933R	2023	A1029C	2023	A2057B2-115	2016	A59625-1	2023	A701589-00	2023	A6532300	2023	A7568460	1104
A933R(JAPAN)	2023	A1029D	2023	A2057B106-12	2023	A59625-2	2023	A711002	565	A6532921	2023	A7568475	1104
A933S	2023	A1030	2023	A2057B108-6	2023	A59625-3	2023	A758011	1114	A6532941	2023	A7568500	1102
A933S(JAPAN)	2023	A1030B	2023	A2332	2016	A59625-4	2023	A759500	1114	A6532941(,2SA950-Y)		A7568521	1102
A937	2023	A1030C	2023	A2410	1617	A59625-5	2023	A772738	2016		2023	A7568700	1103
A937-1	1617	A1040	2023	A2411	1617	A59625-6	2023	A772739	2016	A6533730	2027	A7568719	1103
A937-3	1617	A1042	2043	A2412	1617	A59625-7	2023	A815199	2023	A6534020	2023	A7568752	1103
A937-Q	2023	A1045	2043	A2413	1617	A59625-8	2023	A815199-6	2023	A6534021	2023	A7568754	1103
A937R	2023	A1046	2043	A2418	2041	A59625-9	2023	A815211	2023	A6534021(,2SA1015-O)		A7570013-01	2023
A937R(JAPAN)	2023	A1048	2023	A2419	1123	A59625-10	2023	A815213	2023		2023	A7572100	1104
A941	2023	A1048-GR	2023	A2420	1123	A59625-11	2023	A815229	2023	A6534040	2023	A7572200	1104
A942	2023	A1048-O	2023	A2422	1104	A59625-12	2023	A815247	2023	A6534040(,2SA1015-Y)		A7576004-01	2023
A950	2023	A1048-O(JAPAN)	2023	A2423	1104	A71687-1	2023	A970246	2023		2023	A7580111	1114
A950-0	2023	A1048GR	2023	A2428	2023	A75680	1104	A970248	2023	A6534045	2023	A7580660	1104
A950-O	2023	A1048GR(JAPAN)	2023	A2434	1617	A78331	2023	A970251	2023	A6534045(,2SA1015-Y)		A7682052	1104
A950-Y	2023	A1048O	2023	A2448	2023	A94037	2023	A970254	2023		2023	A7978850	1104
A950FA	2023	A1048Y	2023	A2460	1104	A95227	2023	A984193	2023	A6534045		A7978855	1104
A950Y	2023	A1049	2023	A2461	1104	A95232	2023	A1471114-1	2023	(,2SA1015-YFA)	2023	A11159761	1122
A950Y(JAPAN)	2023	A1050	2023	A2464	2016	A112363	2041	A1473563-1	2023	A6534060	2023	A-11790169	1122
A950Y(KOREA)	2023	A1061D	2023	A2465	2016	A-113110	2023	A1473570-1	2023	A6534063	2023	A20030703-0702	2023
A952	2023	A1061E	2023	A2466	1617	A-113367(DIODE)	1122	A1473574-1	2023	A6610160	2027	A20114050	2023
A952(JAPAN)	2023	A1082D	2023	A2468	1617	A116078	2023	A1473590-1	2023	A6707244	2009	A20114051	2023
A952K	2023	A1082E	2023	A2469	1617	A-118038	1114	A1473591-1	2023	A6707298	2009	A20114550	2023
A952L	2023	A1083D	2023	A2470	1617	A118284	2023	A1473597-1	2023	A6708303	2009	A43023843	2041
A952L(JAPAN)	2023	A1083E	2023	A2471	2030	A119730	2023	A2006681-95	2016	A6708850	2009	A43023845	2023
A952M(JAPAN)	2023	A1086	2009	A2473	1123	A-120018	2030	A2057013-0004	2023	A6708861	2009	A75779500	1114
A953	2023	A1087	2009	A2474	563	A-120077	563	A2057013-0701	2023	A6708871	2009	A80052402	2041
A954	2023	A1090	2023	A2476	1123	A-120125(PWR.RECT.)		A2057013-0702	2023	A6708871(,2SC388ATM)		A80414120	2041
A970	2023	A1092	2023	A2479	2016		1114	A2057013-0703	2023		2009	A80414130	2041
A973	2023	A1100	2023	A2480	2016	A-120278	1617	A2092693-0724	2016	A6708871		AA 07089	1617
A978	2023	A1100D	2023	A2481	1104	A-120327	2041	A2092693-0725	2016	(,2SC388ATMFA)	2009	AA90	1104
A980	2043	A1100F	2023	A2485	1104	A-120417	2023	A2498512	2023	A6733280	2016	AA100	1104
A981	2043	A1100L	2023	A2498	2016	A121467	2023	A3011112	2030	A6733340	2009	AA101	1067
A982	2043	A1109	2016	A2499	1617	A121659	2023	A3115621	1102	A6733560	2009	AA102	1067
A984	2023	A1115	2023	A2652-919	2035	A124047	2023	A3115690	1104	A6734592	2009	AA107	1067
A984E	2023	A1115-E	2023	A2746	2016	A124623	2016	A5010005	1122	A6754194H	2016	AA108	1067
A984K	2023	A1115-F	2023	A2798	2023	A124624	2016	A5320111	2023	A6771373	2055	AA109	1067
A984KF(JAPAN)	2023	A1115E	2023	A3513	2023	A124735	2023	A5768475	1104	A6823565	2020	AA111	1123
A987	2023	A1128	2023	A3540	2023	A-125278	561	A6314340	2020	A6841420	2020	AA112	1123
A990	2023	A1150	2023	A3549	2023	A125329	2016	A6314446	2009	A6841440	2020	AA112P	1123
A991	2023	A1150Y	2023	A3559	2023	A-125332	1617	A6314446		A6846801	2055	AA113	1123
A991-01-0098	2023	A1152	2023	A3562	2023	A126534	2023	(,2SC1627-YFA)	2009	A6846806	2055	AA113P	1123
A991-01-1225	2023	A1153	2023	A3563	2023	A126700	2023	A6317420	2009	A6846860	2055	AA114	1123

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AA115	1067	AD10	1104	AM040	1104	AMX3581	2020	AR17GREY	2020	AS2	1104	AT404	1617
AA116	1123	AD29	1114	AM050	1104	AMX3583	2016	AR19	1104	AS-3	1104	AT405	1617
AA116(SRC)	1067	AD30	1122	AM060	1104	AMX3584	1604	AR20	1104	AS3	1104	AT406	1617
AA117	1123	AD50	1104	AM06200013	1122	AMX3655	1802	AR21	1104	AS3A	1141	AT407	1617
AA118	1123	AD100	1104	AM06200014	1104	AMX3799	2043	AR22	1104	AS3B	1142	AT410	2023
AA118P	1123	AD100(DIODE)	1122	AM06200017	1123	AMX3867	2520	AR-22(DIO)	1104	AS3C	1143	AT410-1	2023
AA119	1123	AD110A	1122	AM06200065	1114	AMX3868	2521	AR22(RECTIFIER)	1104	AS3D	1144	AT412	2023
AA119P	1123	AD150(DIODE)	1122	AM3	1104	AMX4178	2009	AR-22(XSTR)	2020	AS-4	1104	AT412-1	2023
AA120	1123	AD200	1104	AM13	1104	AMX4200	1712	AR23	1114	AS4	1104	AT413	2023
AA121	1123	AD200(DIODE)	1122	AM23	1104	AMX4200(,LM339)	1712	AR-23(DIO)	1114	AS-5	1104	AT413-1	2023
AA123	1123	AD411	1122	AM-33	1104	AMX4258	007	AR-23(XSTR)	2027	AS5	1104	AT414	2023
AA130	1123	AD4001	1104	AM33	1104	AMX4258(,741C)	007	AR-24	1114	AS6	1104	AT414-1	2023
AA131	1123	AD4002	1114	AM43	1104	AMX4263	1617	AR24	1114	AS11	1104	AT415	2023
AA132	1123	AD4003	1114	AM53	1104	AMX4330	2023	AR24(PHILCO)	2017	AS-14	1104	AT415-1	2023
AA134	1123	AD4004	1114	AM62	1104	AMX4331	2068	AR24(XSTR)	2020	AS-15	1104	AT416	2023
AA135	1123	AD4005	1114	AM63	1104	AMX4577	1771	AR24RED	2020	AS15	1104	AT416-1	2023
AA136	1123	AD4006	1114	AM65	1104	AMX4661	038	AR-25	2027	ASY70-V	1617	AT417	2023
AA137	1123	AD4007	1114	AM66	1104	AN-1	1104	AR25(G)	2027	ASZ12	563	AT417-1	2023
AA138	1123	ADX0214	561	AM300	1122	AN78M05	1770	AR27GREEN	2027	ASZ15	564	AT418	2023
AA139	1123	ADX1148	1104	AM300A	1122	AN78M05LB	1770	AR28	2020	AT0017	2009	AT418-1	2023
AA140	1123	ADX1152	1122	AM301	1122	AN78M12	1771	AR29RED	2020	AT0025	2009	AT419	2023
AA142	1123	ADX1364	1122	AM301A	1122	AN78M12(LB)	1771	AR-34	2020	AT0025A	2009	AT419-1	2023
AA143	1123	ADX1474	1143	AM302	1122	AN78M12LB	1771	AR34	2020	AT0045	2009	AT420	1617
AA143S	1123	AE1A	1114	AM302A	1122	AN78M15	1772	AR35	2020	AT-7	2030	AT421	1617
AA144	1123	AE1B	1114	AM303	1122	AN78M15LB	1772	AR37GREEN	2027	AT-10	2041	AT422	1617
AA200	1104	AE1C	1114	AM303A	1122	AN1741	007	AR38	2020	AT-11	2023	AT423	1617
AA210	1123	AE1D	1114	AM304	1122	AN6352	038	AR38RED	2020	AT-12	2030	AT424	1617
AA218	1123	AE1E	1114	AM304A	1122	AN6552	038	AR44	2027	AT12	2030	AT425	1617
AA300	1104	AE1F	1114	AM305	1122	AN6553	038	AR107	1617	AT-12(PHILCO)	2030	AT426	1617
AA400	1104	AE1G	1114	AM305A	1122	AN6558	038	AR108	1617	AT310	2016	AT427	1617
AA500	1104	AE3A	1141	AM306	1122	AN6570	007	AR-200	1617	AT311	2016	AT430	2023
AA600	1104	AE3B	1143	AM306A	1122	AN6912	1712	AR200	2016	AT312	2016	AT430-1	2023
AA779	1123	AE3C	1143	AM307	1122	AN7805	1770	AR200(W)	2009	AT313	2016	AT431	2023
AA800	1114	AE3D	1144	AM307A	1122	AN7812	1771	AR200W	2016	AT314	2016	AT431-1	2023
AA1000	1114	AE10	1122	AM308	1122	AND104R	033	AR200WHITE	2009	AT315	2016	AT432	2023
AAY12	1123	AE30	1122	AM308A	1122	AND123R	026	AR-201	1617	AT316	2016	AT432-1	2023
AAY14	1123	AE50	1122	AM324D	1711	AO4092	1104	AR201	2016	AT318	2016	AT433	2023
AAY15	1123	AE100	1122	AM324N	1711	AO4092A	1104	AR201(Y)	2009	AT319	2016	AT433-1	2023
AAY18	1123	AE150	1122	AM405	1104	AO4092B	1104	AR201Y	2016	AT321	2016	AT434	2023
AAY22	1123	AE200	1122	AM410	1104	AO4093	1104	AR201YELLOW	2009	AT322	2016	AT434-1	2023
AAY27	1123	AE920	703	AM415	1104	AO4093-A	1104	AR-202	1617	AT323	2016	AT435	2023
AAY30	1123	AF699	2023	AM420	1104	AO4093A	1104	AR202	2016	AT324	2016	AT435-1	2023
AAY33	1123	AF3570	2023	AM425	1104	AO4164-2	564	AR202G	2016	AT325	2016	AT436	2023
AAY46	1123	AF3590	2023	AM430	1104	AO4210A	1104	AR202GREEN	2009	AT326	2016	AT436-1	2023
AAY53	1123	AF21490	2023	AM435	1104	AO4212-A	1104	AR203	2030	AT327	2016	AT437	2023
AAY54	1123	AFC3527	2009	AM440	1104	AO4212-B	1104	AR203R	2030	AT328	2016	AT437-1	2023
AAY139	1123	AFCS1170F	2023	AM445	1104	AO4233	1104	AR204	1617	AT329	1617	AT438	2023
AAZ10	1123	AFS-160-1017	1123	AM450	1104	AO4234-2	562	AR205	1617	AT330	2016	AT438-1	2023
AAZ18	1123	AFS-160-1020	1123	AM460	1104	AO4716	1104	AR206	1617	AT331	2023	AT440	2030
AAZ18D	1104	AFS-160-1021	1104	AM620	1122	AO4727	1101	AR208	1617	AT331A	2023	AT441	2030
AB1-9	562	AFS-760-1017	1123	AM620A	1123	AO4901A	1104	AR209	2016	AT332	2023	AT442	2030
AB50	1114	AFS24226	2023	AM626	1122	AP4.7A	565	AR210	2016	AT332A	2023	AT443	2030
AB100	1114	AFT0019M	2023	AM626A	1122	AP4.7B	565	AR211	2016	AT333	2023	AT444	2030
AB200	1114	AFT052	2023	AM632	1122	AP6.0A	561	AR212	2016	AT335	1617	AT445	2030
AB300	1114	AFT1341	2023	AM632A	1123	AP6.0B	561	AR213	2016	AT335A	2023	AT446	2030
AB400	1114	AFT1746	2023	AM2764ADC	1251	AP6.2A	561	AR213(V)	2016	AT336	1617	AT451	2023
AB500	1114	AG30	1122	AM3235	2041	AP6.2B	561	AR213V	2016	AT337	1617	AT451-1	2023
AB600	1114	AG100D	1104	AM161011H	2009	AP9.1A	562	AR213VIOLET	2016	AT338	2016	AT452	2023
AB700	1114	AG100G	1104	AM161011J	2009	AP9.1B	562	AR218	2058	AT339	2030	AT452-1	2023
AB800	1114	AG100J	1104	AM161015H	2023	AP12.0A	563	AR218(RO)	2016	AT340	2016	AT453	2023
AB1000	1114	AH805	1114	AM161016H	2009	AP12.0B	563	AR218RO	2016	AT341	2016	AT453-1	2023
AB4164ANP-12	2506	AH810	1114	AM161038H	2009	AP15.0A	564	AR219	2016	AT342	2016	AT454	2023
AB4164ANP-15	2506	AH814	1114	AM161039H	2009	AP15.0B	564	AR219(YY)	2016	AT343	2016	AT454-1	2023
AC03BGML	1000	AH815	1114	AM161043H	2027	APD4.7A	565	AR219YY	2016	AT344	2016	AT455	2023
AC03BGMR	1000	AH1005	1114	AM161050H	2023	APD4.7B	565	AR220	2016	AT345	2016	AT455-1	2023
AC03DGML	1000	AH1010	1114	AM162005A	1104	APD5.1A	565	AR220(GY)	2016	AT346	2016	AT470	2030
AC03DGMR	1000	AH1015	1114	AMF104	2041	APD5.1B	565	AR220GREEN	2016	AT347	1617	AT471	2030
AC08BGML	1000	AIE	2016	AMF105	2041	APD6.2A	561	AR220GY	2016	AT348	1617	AT472	2030
AC10BGML	1000	AJ5	1104	AMF115	2041	APD6.2B	561	AR220YELLOW	2016	AT349	1617	AT473	2030
AC10BGMR	1000	AJ10	1104	AMF116	2041	APD9.1A	562	AR221	2016	AT353	1617	AT474	2030
AC30	1114	AJ15	1104	AMF117	2041	APD9.1B	562	AR222	2016	AT354	1617	AT475	2030
AC50	1114	AJ20	1104	AMF117A	2041	APD12.0A	563	AR222(BY)	2016	AT355	2016	AT476	2030
AC50(DIODE)	1122	AJ25	1104	AMF118	2041	APD12.0B	563	AR222BLUE	2016	AT356	2016	AT477	2030
AC50(RECTIFIER)	1141	AJ30	1104	AMF118A	2041	APD15.0A	564	AR222BY	2016	AT370	1617	AT478	2030
AC100	1114	AJ35	1104	AMF119	2041	APD15.0B	564	AR222YELLOW	2016	AT380	2030	AT479	2030
AC200	1114	AJ40	1104	AMF119A	2041	APD3595	1102	AR224	2016	AT381	2030	AT490	1617
AC300	1144	AJ50	1104	AMF120	2041	AQ2	2030	AR224WHITE	2016	AT382	2030	AT491	1617
AC400	1144	AJ60	1104	AMF120A	2041	AQ2(PHILCO)	1104	AR224YELLOW	2016	AT383	2030	AT492	1617
AC9082	2023	AK261	1123	AMF-121	2041	AQ3	2030	AR244	2027	AT384	2030	AT493	1617
AC9083	2023	ALS-8922	1617	AMF201	2041	AQ3(PHILCO)	1104	AR303	2009	AT385	2030	AT494	1617
AC9084	2023	AM	2020	AMF210	2041	AQ4	1617	AR306	1617	AT386	2030	AT495	1617
AC9085	2023	AM005	1104	AMF210A	2041	AQ5	2030	AR306BLUE	2030	AT387	2030	AT520	2016
ACDC9500-1	2023	AM010	1104	AM-G-5	1104	AQ6	1617	AR306ORANGE	2030	AT388	2030	AT-1856	2041
ACR83-1007	1123	AM020	1104	AM-G-5A	1114	AR7C	1104	AR313	2016	AT400	1617	AT1858	2041
ACR83-1008	1104	AM025	1104	AM-G-5C	1114	AR13	2041	AR343	2009	AT401	1617	AT3265	2041
ACR810-107	1123	AM030	1104	AM-G-22	1104	AR16	1104	AR882	1104	AT402	1617	ATK-5B-3	1114
ACR810-108	1104	AM035	1104	AMX3543	1140	AR-17	2020	AS-2	1104	AT403	1617	ATC-TF-4	2020

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ATC-TR-1	2030	B1J	2023	B4A1	1104	B6K5	1114	B223-30	1114	B530	2043	B744A	2023
ATC-TR-13	2030	B1K	1617	B4A5	1104	B6K9	1114	B223-40	1114	B531	2043	B744Q	2023
ATC-TR-16	2041	B1K1	1114	B4A9	1104	B6M1	1114	B223-50	1114	B531-O	2043	B744R	2023
ATC-TR-19	2020	B1K5	1114	B4B1	1104	B6M5	1114	B223-60	1114	B531-R	2043	B744S	2023
AU2012	563	B1K9	1114	B4B5	1104	B6M9	1114	B238C18	2009	B531-Y	2043	B745	2023
AV0000105-0	1122	B1M1	1114	B4B9	1104	B6P	2009	B250C7K4S	1104	B532(2S)	2043	B745A	2023
AV5	563	B1M5	1114	B4C1	1104	B7A1	1114	B250C75	1104	B532S	2043	B745AS	2023
AV2012	563	B1M9	1114	B4C5	1104	B7A5	1114	B250C75K4	1104	B542	2023	B745S	2023
AV2015	564	B1N	1617	B4C9	1104	B7A9	1114	B250C75K5	1104	B542D	2023	B745T	2023
AW01	563	B1U	2020	B4D1	1104	B7B1	1114	B250C75K41	1104	B555(2S)	2043	B774	2023
AW01-0	561	B1W	1617	B4D5	1104	B7B5	1114	B250C75K45	1104	B555-O	2043	B774Q	2023
AW01-06	561	B2	2016	B4D9	1104	B7B9	1114	B250C100	1104	B555-R	2043	B774R	2023
AW-01-09	562	B2A	2023	B4E1	1104	B7C1	1114	B250C100TD	1104	B555R	2043	B774S	2023
AW01-09	562	B2A1	1104	B4E5	1104	B7C5	1114	B250C125	1104	B556	2043	B774S(JAPAN)	2023
AW01-9	562	B2A5	1104	B4E9	1104	B7C9	1114	B250C125K4	1104	B556-O	2043	B774T	2023
AW01-9/CP3112030	562	B2A9	1104	B4F1	1104	B7D1	1114	B250C125N2	1104	B556-R	2043	B808	2023
AW01-9V	562	B2B1	1104	B4F5	1104	B7D5	1114	B250C125X4	1104	B557	2043	B808F	2023
AW-01-12	563	B2B5	1104	B4F9	1104	B7D9	1114	B250C150	1104	B557-O	2043	B808G1	2023
AW01-12	563	B2B9	1104	B4G1	1104	B7E1	1114	B250C150K4	1104	B557-R	2043	B856B	2027
AW-01-12C	563	B2C1	1104	B4G5	1104	B7E5	1114	B274(SYLVANIA)	2030	B558	2043	B856C	2027
AW01-12C	563	B2C5	1104	B4G9	1104	B7E9	1114	B285-5	1171	B558-O	2043	B1007B	081
AW01-12V	563	B2C9	1104	B4H1	1114	B7F1	1114	B285-10	1171	B558-R	2043	B1202	1104
AW01-15	564	B2D	1617	B4H5	1114	B7F5	1114	B285-30	1173	B567-10	1122	B1203	1102
AW03-05	565	B2D1	1104	B4H9	1114	B7F9	1114	B285-40	1173	B595	2023	B1207V	1102
AW09	562	B2D5	1104	B4K1	1114	B7G1	1114	B294	1104	B595F	2023	B-1338	1617
AW0113	563	B2D9	1104	B4K5	1114	B7G5	1114	B376-5	1173	B598F	2023	B-1421	1617
AX12	563	B2D753A	561	B4K9	1114	B7G9	1114	B376-10	1173	B601-1011	1123	B-1426	2023
AX91770	2016	B2D757A	562	B4M1	1114	B7H1	1114	B376-20	1173	B601-1012	1104	B-1433	1617
AY-3-8910	1787	B2D759A	563	B4M5	1114	B7H5	1114	B376-30	1173	B611	2043	B-1501U	1104
AY-3-8910A	1787	B2E	2023	B4M9	1114	B7H9	1114	B376-40	1173	B611A	2043	B-1599	1122
AZ4.7	565	B2E1	1104	B5-31S	1067	B7K1	1114	B434(2S)	2027	B640	2023	B-1664	1617
AZ5.1	565	B2E5	1104	B5A1	1104	B7K5	1114	B434-O	2027	B641	2023	B-1702	1122
AZ6.2	561	B2E9	1104	B5A5	1104	B7K9	1114	B434-ORG	2027	B641-O(JAPAN)	2023	B-1823	2016
AZ9.1	562	B2F1	1104	B5A9	1104	B7M1	1114	B434-R(2S)	2027	B641-OR	2023	B-1842	1617
AZ12	563	B2F5	1104	B5B1	1104	B7M5	1114	B434-RED	2027	B641-R	2023	B-1872	1617
AZ15	564	B2F9	1104	B5B5	1104	B7M9	1114	B434-Y(2S)	2027	B641P	2023	B-1881U	1104
AZ759	563	B2G	2023	B5B9	1104	B8A5	1114	B434-YEL	2027	B641Q	2023	B-1882U	1104
AZ759A	563	B2G1	1104	B5C1	1104	B9TUI	2035	B434G-O	2027	B641R	2023	B-1910	2016
AZ963	563	B2G5	1104	B5C5	1104	B12(DIO)	1102	B434G-R	2027	B641S	2023	B2090	562
AZ963A	563	B2G9	1104	B5C9	1104	B12(RECT)	1102	B434G-Y	2027	B642	2023	B2404C	1104
AZ963B	563	B2H1	1114	B5D1	1104	B12(RECT)	1114	B434R	2027	B642-O	2023	B2404D	1104
AZ965	564	B2H5	1114	B5D5	1104	B12-02	1104	B435(2S)	2027	B642-Q	2023	B2406C	1104
AZ965A	564	B2H9	1114	B5D9	1104	B12-02R	1102	B435-O(2S)	2027	B642-Q(JAPAN)	2023	B2406D	1104
AZ965B	564	B2K	2017	B5E	2020	B12-02RK	1102	B435-O	2027	B642-R	2023	B2804D	1104
AZG	2016	B2K1	1114	B5E1	1104	B12-1A21	1617	B435-ORG	2027	B642-R(JAPAN)	2023	B3045	2020
AZY	2016	B2K5	1114	B5E5	1104	B24-06B	1114	B435-R(2S)	2027	B642P	2023	B3046	2020
B004B	1171	B2K9	1114	B5E9	1104	B24-06D	1114	B435-RED	2027	B642Q	2023	B3466	2020
B004E	1173	B2M1	1114	B5F1	1104	B-28	1123	B435-Y(2S)	2027	B642R	2023	B3531	2017
B01-02	1104	B2M5	1114	B5F5	1104	B-30	1123	B435-YEL	2027	B642S	2023	B3533	2017
B01-2	1122	B2M9	1114	B5F9	1104	B30	1123	B435G-O	2027	B643	2023	B3537	2017
B090	562	B2Z	2016	B5G1	1104	B30B250KY	1173	B435G-R	2027	B643-O	2023	B3538	2017
B0102	1102	B3	2016	B5G5	1104	B30C250	1104	B435G-Y	2027	B643-Q	2023	B3539	2020
B0102V	1102	B3A1	1104	B5G9	1104	B30C250-1	1104	B435O	2027	B643-Q(JAPAN)	2023	B3540	2017
B0319700	705	B3A5	1104	B5H1	1114	B30C350-1	1104	B435R	2027	B643-R	2023	B3541	2017
B0330540	038	B3A9	1104	B5H5	1114	B30C500	1104	B435RY	2027	B643-R(JAPAN)	2023	B3542	2017
B0350602	038	B3B1	1104	B5H9	1114	B30C600	1104	B435Y	2027	B643P	2023	B3543	2020
B0470130	2413	B3B5	1104	B5K1	1114	B30C600CB	1104	B442-5	1171	B643Q	2023	B3544	2020
B0470662	2466	B3B9	1104	B5K5	1114	B30C1000	1171	B442-10	1171	B643QRS	2023	B3547	2020
B1A1	1104	B3C1	1104	B5K9	1114	B-30P	1123	B442-30	1173	B643R	2023	B3548	2020
B1A5	1104	B3C5	1104	B5M1	1114	B-31	1104	B442-40	1173	B643S	2023	B3550	2020
B1A9	1104	B3C9	1104	B5M5	1114	B31	1104	B507(2S)	2027	B644	2023	B3551	2020
B1B	1104	B3D1	1104	B5M9	1114	B35C600	1104	B507E	2027	B644-Q	2023	B3570	2017
B1B1	1104	B3D5	1104	B6A1	1114	B41-04	1104	B508(2S)	2027	B644-R	2023	B3576	2017
B1B5	1104	B3D9	1104	B6A5	1114	B42-04	1104	B509(2S)	2027	B644-R(JAPAN)	2023	B3577	2020
B1B9	1104	B3D753A	561	B6A9	1114	B43-04	1104	B511(2S)	2027	B644Q	2023	B3578	2020
B1C1	1104	B3D757A	562	B6B1	1114	B-46-110	1122	B511-1(2S)	2027	B644QR	2023	B3580	2020
B1C5	1104	B3D759A	563	B6B5	1114	B51	1104	B511C(2S)	2027	B644R	2023	B3584	2020
B1C9	1104	B3E1	1104	B6B9	1114	B56-15	1143	B511D(2S)	2027	B644S	2023	B3585	2020
B1D	2020	B3E5	1104	B6C1	1114	B56-33	1143	B511E	2027	B654-5	1173	B3586	2020
B1D1	1104	B3E9	1104	B6C5	1114	B60C300	1104	B512(2S)	2027	B654-10	1173	B3588	2020
B1D5	1104	B3F1	1104	B6C9	1114	B-66	2009	B512-0	2027	B654-20	1173	B3589	2020
B1D9	1104	B3F5	1104	B6D1	1114	B66X0033-001	1104	B512-O	2027	B654-30	1173	B3606	2017
B1E1	1104	B3F9	1104	B6D5	1114	B66X0041-001	1104	B512A(2S)	2027	B654-45	1173	B3607	2017
B1E5	1104	B3G1	1104	B6D9	1114	B81-004	1104	B512P	2027	B692K13	1123	B3608	2017
B1E9	1104	B3G5	1104	B6E1	1114	B172-5	1114	B513(2S)	2027	B696	2043	B3609	2017
B1F1	1104	B3G9	1104	B6E5	1114	B172-10	1114	B513A(2S)	2027	B698	2023	B3610	2017
B1F5	1104	B3H1	1114	B6E9	1114	B172-20	1114	B513P	2027	B698F	2023	B3611	2017
B1F9	1104	B3H5	1114	B6F1	1114	B172-30	1114	B513Q	2027	B699	2027	B3612	2017
B1G1	1104	B3H9	1114	B6F5	1114	B172-40	1114	B513R	2027	B699Q	2027	B3613	2017
B1G5	1104	B3K1	1114	B6F9	1114	B172-50	1114	B514(2S)	2027	B709	2023	B3614	2017
B1G9	1104	B3K5	1114	B6G1	1114	B172-60	1114	B515(2S)	2027	B709A	2023	B3744	2020
B1H	2016	B3K9	1114	B6G5	1114	B172-70	1114	B520	2043	B721	2023	B3747	2017
B1H(DIODE)	1104	B3M1	1114	B6G9	1114	B172-80	1114	B520-1	2043	B726	2023	B3748	2017
B1H(XSTR)	2016	B3M5	1114	B6H1	1114	B172-90	1114	B520-2	2043	B726R	2023	B3750	2017
B1H1	1114	B3M9	1114	B6H5	1114	B172-100	1114	B523	2027	B726S	2023	B4302	1104
B1H5	1114	B-3P	1123	B6H9	1114	B200C40	1104	B524	2027	B726T	2023	B4304	1104
B1H9	1114	B4	2016	B6K1	1114	B223-10	1114	B529	2027	B744	2023	B4304V	1104

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B4402	1104	B170011	2041	BA219	1122	BAY46	1103	BC131B	2009	BC169	2009	BC190B	1617
B4406	1104	B170012	2041	BA243A	1122	BAY52	1122	BC132	1617	BC-169-C	2009	BC192	2023
B5000	2020	B170013	2041	BA243S	1122	BAY64	1104	BC132A	2009	BC169A	2009	BC194	2016
B5000-GRN	2020	B170014	2041	BA283	1122	BAY67	1122	BC134	1617	BC-169B	2009	BC194B	2016
B5000-RED	2020	B170015	2041	BA316	1122	BAY68	1122	BC135	1617	BC169B	2009	BC195	2016
B5000-YEL	2020	B170016	2041	BA317	1122	BAY72	1122	BC135A	2016	BC-169C	2009	BC195CD	2016
B5001	2017	B170018	2041	BA517	1122	BAY73	1122	BC136	1617	BC169C	2009	BC196	2023
B5001-GRN	2020	B170019	2041	BA751AA	1104	BAY86	1104	BC137	2023	BC170	2016	BC196A	2023
B5001-ORG	2020	B170020	2041	BA751BA	1104	BAY87	1104	BC-138	2030	BC170A	2016	BC196B	2023
B5001-RED	2020	B170021	2041	BA751CA	1104	BAY90	1114	BC138	2030	BC170B	2016	BC196V1	2023
B5001-YEL	2020	B170022	2041	BA751DA	1104	BB1A	1104	BC-140	2030	BC170C	2016	BC197	1617
B5002	2020	B170024	2041	BA751EA	1104	BB-2	1104	BC140	2030	BC171	2009	BC197A	1617
B5020	2041	B170025	2041	BA751FA	1104	BB2A184	1104	BC140-6	2030	BC171A	2009	BC197B	1617
B5021	2020	B1045494P1	1101	BA751GA	1104	BB3I	1104	BC140-10	2030	BC171B	2009	BC198	1617
B5022	2020	B7978850	1104	BA751HA	1104	BB3K	1104	BC140-16	2030	BC172	2009	BC198A	2009
B5031	2020	BA-07001	1123	BA751KA	1104	BB-4	1104	BC140-25	2030	BC172A	2009	BC198B	2016
B5032	2020	BA-07007	1104	BA751MA	1104	BB4	1104	BC-140A	2030	BC172B	2009	BC198C	2009
B-6001	2035	BA5A5	1101	BA751PA	1114	BB4-FC	1104	BC-140B	2030	BC172C	2009	BC199	1617
B-6002	564	BA67	1617	BA751RA	1114	BB4T	1104	BC-140C	2030	BC173	2016	BC199B	2016
B9426	2016	BA71	1617	BA751TA	1114	BB-6	1104	BC140C	2030	BC173,B	2030	BC199C	2009
B17307	2041	BA100	1104	BA751VA	1114	BB6	1104	BC-140D	2030	BC173A	2016	BC200	2023
B36564	1104	BA102AA	1104	BA4558	038	BB-8	1104	BC140D	2030	BC173B	2016	BC200G	2023
B-75583-102	1617	BA102BA	1104	BA4558DX	038	BB10	1104	BC-141	2030	BC173C	2016	BC200R	2023
B81004	1141	BA102CA	1104	BAC-SHIMI	1122	BB71	1617	BC141	2030	BC174	2030	BC200Y	2023
B143000	2017	BA102DA	1104	BACSHIMI	1122	BB100	1101	BC141-06	2030	BC174A	2030	BC201	2023
B143001	2017	BA102EA	1104	BACSIM1	1122	BB107	1104	BC141-6	2030	BC174B	2030	BC202	2023
B143003	2017	BA102FA	1104	BAN62	1122	BB-109	1104	BC141-10	2030	BC175	2009	BC203	2023
B143004	2020	BA102GA	1104	BAS11	1104	BB117	1104	BC141-16	2030	BC177	2023	BC204	2023
B143009	2017	BA102HA	1104	BAV17	1122	BB127	1104	BC141-25	2030	BC177A	2023	BC204-6	2023
B143010	2017	BA102KA	1104	BAV18	1122	BBIA	1104	BC-142	2030	BC177B	2023	BC204A	2023
B143011	2020	BA102MA	1104	BAV19	1122	BBY31	1122	BC142	2030	BC177V	2023	BC204B	2023
B143012	2020	BA102PA	1114	BAV20	1122	BBY40	1122	BC142-10	2030	BC177V1	2023	BC204V	2023
B143015	2017	BA102RA	1114	BAV21	1122	BC17LB-1	2023	BC142-16	2030	BC178	2023	BC204V1	2023
B143016	2017	BA102TA	1114	BAV70	1104	BC45B	2009	BC144	2030	BC178A	2023	BC205	2023
B143018	2020	BA102VA	1114	BAV74	1101	BC-71	1617	BC146	2016	BC178B	2023	BC205A	2023
B143019	2020	BA104	1104	BAW10TF20	1122	BC71	1617	BC146G	2009	BC178C	2023	BC205B	2023
B143024	2017	BA105	1103	BAW11TF21	1122	BC103	2030	BC146R	2009	BC178D	2023	BC205C	2023
B143025	2017	BA108	1101	BAW12TF22	1122	BC103C	2030	BC146Y	2009	BC178V	2023	BC205V	2023
B143026	2020	BA114	1122	BAW13TF23	1122	BC107	1617	BC147	1617	BC178V-1	2023	BC205V1	2023
B143027	2020	BA119	1104	BAW16	1122	BC107A	1617	BC147A	1617	BC178V1	2023	BC205VI	2023
B170000	2041	BA122	1122	BAW17	1122	BC107AP	2009	BC147B	1617	BC179	2023	BC206	2023
B170000-B	2055	BA127	1104	BAW18	1122	BC107B	1617	BC148	1617	BC179A	2023	BC206A	2023
B170000-ORG	2041	BA128	1104	BAW24	1122	BC107BP	2009	BC-148A	1617	BC179B	2023	BC206B	2023
B170000-ORN	2041	BA129	1102	BAW25	1122	BC108	1617	BC148A	1617	BC179C	2023	BC206C	2023
B170000-R	2041	BA130	1101	BAW28	1104	BC108A	1617	BC-148B	1617	BC180	1617	BC-207	1104
B170000-RED	2041	BA132AA	1114	BAW32A	1122	BC108AP	2009	BC148B	1617	BC180B	1617	BC207	2009
B170000-Y	2041	BA132BA	1114	BAW32B	1122	BC-108B	1617	BC-148C	1617	BC181	2023	BC207A	2009
B170000BLK	2041	BA132CA	1114	BAW32C	1104	BC108B	1617	BC148C	1617	BC181A	2023	BC207B	2009
B170000BRN	2041	BA132DA	1114	BAW32D	1101	BC108BP	2009	BC149	1617	BC182	2009	BC208	2009
B170001	2041	BA132EA	1114	BAW32E	1101	BC108C	1617	BC149A	1617	BC182A	2009	BC208A	2009
B170001-B	2041	BA132FA	1114	BAW45	1122	BC108CP	2009	BC149B	1617	BC182AP	2009	BC208B	2009
B170001-BLK	2041	BA132GA	1114	BAW53	1122	BC109	1617	BC149C	1617	BC182BP	2009	BC208C	2009
B170001-BRN	2041	BA132HA	1114	BAW59	1122	BC-109B	1617	BC149G	1617	BC182K	2016	BC209	2009
B170001-O	2041	BA132KA	1114	BAW62	1122	BC109B	1617	BC150	2009	BC182KA	1617	BC209B	2009
B170001-ORG	2041	BA132MA	1114	BAW63A	1122	BC109BP	2009	BC151	2009	BC182KB	1617	BC209C	2009
B170001-R	2041	BA132PA	1114	BAW63B	1122	BC109C	1617	BC152	2009	BC182L	2009	BC210	2009
B170001-RED	2041	BA132RA	1114	BAW75	1122	BC109CP	2009	BC153	2023	BC182LA	2009	BC211	2030
B170001-Y	2041	BA132TA	1114	BAW76	1104	BC110	1617	BC154	2023	BC182P	2009	BC211A	2030
B170001BLK	2041	BA132VA	1114	BAW99	1122	BC111	2016	BC155	2016	BC183	2009	BC212	2023
B170001BRN	2041	BA133F	1114	BAX12	1104	BC112	2016	BC155A	2016	BC183A	2009	BC212A	2023
B170002	2041	BA136	1122	BAX-13	1122	BC113	1617	BC155B	2009	BC183AP	2009	BC212AP	2023
B170002-BLK	2041	BA136A	1141	BAX13	1122	BC114	1617	BC155C	2016	BC183B	2009	BC212B	2023
B170002-BRN	2041	BA-142-01	1104	BAX-16	1122	BC114TR	1617	BC156	2016	BC183BP	2009	BC212BP	2023
B170002-O	2041	BA142-01	1104	BAX16	1122	BC115	1617	BC156A	2016	BC183K	2016	BC212K	2023
B170002-ORG	2041	BA147	1122	BAX18	1104	BC116	2023	BC156B	2009	BC183KA	2016	BC212KA	2023
B170002-R	2041	BA153	1104	BAX18A	1104	BC116A	2023	BC156C	2016	BC183KB	1617	BC212KB	2023
B170002-RED	2041	BA154	1122	BAX28	1122	BC117	2030	BC157	2023	BC183KC	1617	BC212L	2023
B170002-Y	2041	BA164	1101	BAX30	1122	BC118	1617	BC157A	2023	BC183L	2016	BC212LA	2023
B170003	2041	BA166	1122	BAX74	1122	BC-119	2030	BC157B	2023	BC183LA	2009	BC212LB	2023
B170003-B	2055	BA167	1122	BAX87	1122	BC119	2030	BC158	2023	BC183LB	2009	BC212P	2023
B170003-O	2041	BA168	1122	BAX88TF11	1122	BC120	2030	BC158-1	2023	BC183P	2009	BC212V1	2023
B170003-R	2041	BA170	1122	BAX89A	1122	BC121	2016	BC158A	2023	BC184	2009	BC212VI	2023
B170003-Y	2041	BA172	1101	BAX91C/TF102	1122	BC122	2016	BC158A-1	2023	BC184B	2009	BC213	2023
B170004	2041	BA174	1122	BAX95TF600	1122	BC123	2016	BC158B	2023	BC184BP	2009	BC213A	2023
B170004-B	2041	BA177	1122	BAY15	1114	BC125	1617	BC158C	2023	BC184C	2009	BC213AP	2023
B170004-R	2041	BA178	1141	BAY16	1114	BC125A	1617	BC159	2023	BC184CP	2009	BC213B	2023
B170004-Y	2041	BA180	1101	BAY17	1122	BC125B	1617	BC159A	2023	BC184K	1617	BC213BP	2023
B170005	2041	BA181	1122	BAY18	1122	BC126	2023	BC159B	2023	BC184KB	1617	BC213K	2023
B170005-B	2041	BA187	1122	BAY19	1122	BC127	2016	BC159C	2023	BC184KC	1617	BC213KA	2023
B170005-O	2041	BA200	1122	BAY20	1122	BC128	2016	BC167	2009	BC184L	2016	BC213KB	2023
B170005-R	2041	BA201	1122	BAY21	1103	BC129	1617	BC-167-B	2009	BC184P	2009	BC213KC	2023
B170005-Y	2041	BA202	1122	BAY23	1114	BC129A	2009	BC167A	2009	BC185	1617	BC213L	2023
B170006	2041	BA203	1122	BAY31	1122	BC129B	2009	BC167B	2009	BC186	2023	BC213LA	2023
B170006-B	2055	BA208	2055	BAY36	1122	BC130	1617	BC168	2009	BC187	2023	BC213LB	2023
B170007	2041	BA216	1122	BAY41	1122	BC130A	2009	BC168A	2009	BC188	2016	BC213LC	2023
B170009	2041	BA217	1101	BAY44	1101	BC130B	2009	BC168B	2009	BC189	2016	BC213P	2023
B170010	2041	BA218	1101	BAY45	1102	BC131	1617	BC168C	2009	BC190	2009	BC214	2023

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BC214A	2023	BC258VI	2023	BC308C	2023	BC382C	2009	BC485B18	2023	BC547B	2009	BCW47A	2009
BC214B	2023	BC259	2023	BC308V1	2023	BC383	1617	BC485L	2023	BC547BP	2009	BCW47B	2009
BC214BP	2023	BC260	2023	BC308VI5	2023	BC383B	2009	BC485L5	2023	BC547C	2009	BCW48	2030
BC214CP	2023	BC260A	2023	BC308VII8	2023	BC383C	1617	BC485L18	2023	BC547VI	2009	BCW48A	2009
BC214K	2023	BC260B	2023	BC309	2023	BC384	1617	BC486	2023	BC547VIP	2009	BCW48B	2009
BC214KA	2023	BC260C	2023	BC309(ALGG)	2023	BC384B	2009	BC486-5	2023	BC548	2009	BCW48C	2009
BC214KB	2023	BC-261	2023	BC309(SIEG)	2023	BC384C	2016	BC486-18	2023	BC548A	2016	BCW49	2030
BC214KC	2023	BC261	2023	BC309-5	2023	BC385A	2016	BC486A	2023	BC548AP	2009	BCW49B	2009
BC214L	2023	BC261A	2023	BC309-18	2023	BC385B	2016	BC486A5	2023	BC548B	2009	BCW49C	2009
BC214LA	2023	BC261B	2023	BC309A	2023	BC386A	2016	BC486A18	2023	BC548BC	2009	BCW56	2023
BC214LB	2023	BC261C	2023	BC309B	2023	BC386B	2016	BC486B	2023	BC548BP	2009	BCW56A	2023
BC214LC	2023	BC262	2023	BC309C	2023	BC400	2023	BC486B5	2023	BC548C	2009	BCW57	2023
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BC216B	2030	BC263	2023	BC317	2009	BC405A	2023	BC487-5	2023	BC549	2009	BCW58B	2023
BC220	1617	BC263A	2023	BC317A	2009	BC405B	2023	BC487-18	2023	BC549B	2009	BCW59	2023
BC221	2023	BC263B	2023	BC317B	2009	BC406B	2023	BC487A	2023	BC549BP	2009	BCW59A	2023
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BC225	2023	BC266B	2023	BC319B	2009	BC408B	2016	BC487L	2023	BC550C	2016	BCW60B	2009
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BC231B	2023	BC268	1617	BC320	2023	BC409	1617	BC487L18	2023	BC556	2023	BCW61	2023
BC232A	2009	BC269	1617	BC320A	2023	BC409B	2009	BC488	2023	BC556A	2023	BCW61BC	2023
BC232B	2009	BC270	1617	BC321	2023	BC409C	2009	BC488-5	2023	BC556B	2023	BCW61BD	2023
BC232M	2030	BC271	2016	BC321A	2023	BC413	2009	BC488-18	2023	BC556VI	2023	BCW61C	2023
BC233A	1617	BC280	1617	BC321B	2023	BC413B	2009	BC488A	2023	BC557	2023	BCW61D	2023
BC237	2009	BC280A	1617	BC322	2023	BC413BP	2009	BC488A5	2023	BC557A	2023	BCW62	2023
BC237(PHIN)	2016	BC280B	1617	BC322B	2023	BC413C	2009	BC488A18	2023	BC557B	2023	BCW62A	2023
BC237-18	2009	BC280C	1617	BC322C	2023	BC414	1617	BC488B	2023	BC557VI	2023	BCW63	2023
BC237A	2009	BC281	2023	BC324	2030	BC414B	2009	BC488B5	2023	BC558	2023	BCW63A	2023
BC237A5	2009	BC281A	2023	BC325	2023	BC414BP	2009	BC488B18	2023	BC558A	2023	BCW64A	2023
BC237A18	2009	BC281B	2023	BC325A	2023	BC414C	2009	BC488L	2023	BC558B	2023	BCW65EA	2009
BC237B	2009	BC281C	2023	BC326	2023	BC415-6	2023	BC488L5	2023	BC558VI	2023	BCW65EB	2009
BC237B5	2009	BC282	2009	BC326A	2023	BC415A	2023	BC488L18	2023	BC559	2023	BCW69	2023
BC237B18	2009	BC283	2023	BC327	2023	BC415AP	2023	BC489	2023	BC559A	2023	BCW71	2016
BC238	2009	BC284	2009	BC327(25)	2023	BC415B	2023	BC489-5	2023	BC559B	2023	BCW71R	2016
BC238(PHIN)	2016	BC284A	2009	BC327-5	2023	BC415BP	2023	BC489-18	2023	BC560	2023	BCW72	2016
BC238-5	2009	BC284B	2009	BC327-18	2023	BC415C	2023	BC489A	2023	BC560A	2023	BCW72R	2016
BC238-16	2023	BC285	1617	BC327AP	2023	BC416-6	2023	BC489A5	2023	BC560C	2023	BCW73	1617
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BC239	2009	BC291D	2023	BC337-18	2009	BC419A	2023	BC490A	2023	BC560PCM	2023	BCW80-16	2023
BC239(PHIN)	2016	BC292	2023	BC337-25	2009	BC429	2030	BC490A5	2023	BC582	2009	BCW83	1617
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BC250	2023	BC301-4	2030	BC338-25	2009	BC446	2023	BC507B	1617	BC737	2016	BCW93B	2023
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BC251C	2023	BC307	2023	BC341-10	2030	BC449-5	2023	BC510C	2016	BC1478	1617	BCW94KA	2009
BC252	2023	BC307(ALGG)	2023	BC350	2023	BC450-18	2023	BC512	2023	BC-1690	1617	BCW94KB	2009
BC252A	2023	BC307(PHIN)	2023	BC350A	2023	BC452	2009	BC512A	2023	BC6300	2016	BCW94KC	2009
BC252B	2023	BC307-5	2023	BC350B	2023	BC455	2009	BC513	2023	BCM1002-2	2016	BCW95	2030
BC252C	2023	BC307-18	2023	BC350L	2023	BC456	2058	BC513A	2023	BCW31	2016	BCW95A	2009
BC253	2023	BC307A	2023	BC351	2023	BC478	2023	BC514A	2023	BCW31R	2016	BCW95B	2009
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BC258	2023	BC308A	2023	BC382	1617	BC485B	2023	BC547A	2009	BCW46B	2009	BCW97KA	2023
BC258C	2023	BC308B	2023	BC382B	2009	BC485B5	2023	BC547AP	2009	BCW47	2030	BCW97KB	2023

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
BCW98A	2016	BCY78	2023	BD241C	2020	BDT91	2020	BF177	2030	BF254	2058	BF497	2016
BCW98B	2016	BCY79	2023	BD242	2027	BDT93	2020	BF-180	2009	BF254(ALGG)	2009	BF505	2058
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BCW98D	2016	BCY84A	1617	BD242B	2027	BDW23	2068	BF181	2016	BF254(SIEG)	2058	BF507	2058
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BCX19R	2009	BCY88	2016	BD244A	2027	BDX11	2041	BF184	2016	BF255(ALGG)	2009	BF542	2023
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BCX58VII	2009	BCY94B	2023	BD293	2020	BDX29	2020	BF196	2058	BF262	2016	BFR17	2016
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BCX59	2009	BCY95B	2023	BD312	2043	BDX29-10	2020	BF-198	2058	BF264	2016	BFR19	2030
BCX70AG	2009	BCY98	2023	BD313	2041	BDX30	2020	BF198	2058	BF270	2016	BFR20	2030
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BCY36	1617	BD1	1123	BD439	2020	BDX93	2041	BF-214	1617	BF290	2016	BFR52	2030
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BCY38	2023	BD2	1123	BD441	2020	BDX95	2041	BF-215	1617	BF291A	1617	BFR78	2030
BCY39	2023	BD3	1123	BD457	1104	BDY10	2041	BF215	2016	BF291B	1617	BFS11	2016
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BCY47	2030	BD6	1123	BD483B	1104	BDY20	2041	BF220	2016	BF304	2016	BFS14F	2016
BCY48	2030	BD7	1123	BD483BF	1104	BDY23	2041	BF222	2016	BF306	2016	BFS14G	2016
BCY49	2030	BD71	2016	BD483BT	1104	BDY23A	2041	BF223	2016	BF308	2058	BFS15E	2016
BCY50	1617	BD106	2020	BD533	2020	BDY23B	2041	BF224	2058	BF310	2058	BFS15F	2016
BCY51	1617	BD106A	2020	BD534	2027	BDY23C	2041	BF224J	1617	BF311	2058	BFS15G	2016
BCY51I	1617	BD106B	2020	BD534L	2027	BDY34	2020	BF225	2058	BF314	2058	BFS16E	2016
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BCY58C	1617	BD113	2058	BD575	2020	BDY73	2041	BF233	2058	BF329	2016	BFS19	2016
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BCY58IX	1617	BD-127	1104	BD579	2020	BDY81	2020	BF233-3	2058	BF333	2016	BFS19R	2016
BCY58VII	1617	BD130	2041	BD585	2020	BDY82	2027	BF233-4	2016	BF333C	2016	BFS20	2016
BCY58VIII	1617	BD-131	2020	BD587	2020	BDY83	2027	BF233-5	2016	BF333D	2016	BFS20R	2016
BCY59	1617	BD135G	2017	BD589	2020	BDY93	2055	BF233-6	2058	BF334	2016	BFS21	2035
BCY59-7	1617	BD137G	2017	BD591	2020	BDY93/01	2055	BF234	2058	BF335	2016	BFS21A	2035
BCY59-8	1617	BD139G	2017	BD596	2027	BE-66	1617	BF235	2016	BF340	2023	BFS23A	2041
BCY59-9	1617	BD141	2041	BD633	2020	BE71	2030	BF236	2016	BF342	2023	BFS26E	2023
BCY59A	1617	BD142	2041	BD635	2020	BE107	1104	BF237	2009	BF343	2023	BFS26F	2023
BCY59B	1617	BD162	2020	BD643	2068	BE117	1104	BF238	2009	BF344	2016	BFS26G	2023
BCY59C	1617	BD163	2020	BD645	2068	BE127	1104	BF240	2058	BF345	2016	BFS27E	2016
BCY59D	1617	BD181	2041	BD705	2020	BE173	2016	BF240B	2058	BF348	2035	BFS27F	2016
BCY59IX	1617	BD182	2041	BD707	2020	BF71	1617	BF241	2058	BF357	2016	BFS27G	2016
BCY59VII	1617	BD201	2020	BD709	2020	BF115	2009	BF241C	2058	BF362	2016	BFS29	2030
BCY59VIII	1617	BD203	2020	BD711	2020	BF121	2016	BF241D	2058	BF363	2016	BFS31	2023
BCY65	2030	BD220	2020	BD733	2020	BF123	2016	BF243	2023	BF364	2058	BFS31P	1617
BCY65IX	1617	BD221	2020	BD735	2020	BF125	2016	BF244	2035	BF365	2058	BFS32	2023
BCY65VII	1617	BD222	2020	BD737	2020	BF127	2016	BF244A	2035	BF366	2030	BFS32P	2023
BCY65VIII	1617	BD223	2027	BD801	2020	BF155	2016	BF244B	2035	BF367	2058	BFS33	2023
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BCY77B	2023	BD240A	2027	BDOA	1171	BF173	2016	BF250	1617	BF450	2023	BFS40	2023
BCY77C	2023	BD241	2020	BDT61	2068	BF173A	2016	BF251	2016	BF451	2023	BFS40A	2023
BCY77VII	2023	BD241A	2020	BDT61A	2068	BF175	2016	BF252	2016	BF494	2058	BFS41	2023
BCY77VIII	2023	BD241B	2020	BDT61B	2068	BF176	2016	BF253	2016	BF495	2058	BFS42	1617

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
BF543	1617	BFV88B	1617	BFY22	1617	BLY36	2020	BS-94	1617	BSW45	2023	BSX81B	2009
BF551	2017	BFV88C	1617	BFY23	1617	BLY37	2017	BS170	2074	BSW45A	2023	BSX87	1617
BF555A	2016	BFV89	2016	BFY23A	1617	BLY38	2017	BS475	1617	BSW49	2030	BSX88	1617
BF558	2016	BFV89A	2016	BFY24	1617	BLY47	2041	BS9011G	2009	BSW51	1617	BSX89	1617
BF562	2016	BFW10	2035	BFY25	1617	BLY48	2041	BSA01	1122	BSW52	1617	BSX90	1617
BF568	2035	BFW11	2035	BFY26	1617	BLY53	2017	BSA02	1122	BSW53	1617	BSX91	1617
BF568P	2035	BFW12	2035	BFY27	2030	BLY61	2030	BSA11	1122	BSW58	2009	BSX92	2016
BF569	2023	BFW13	2035	BFY28	1617	BLY62	2017	BS-B1	1171	BSW59	2009	BSX93	2016
BF596	2023	BFW20	2023	BFY29	1617	BLY63	2020	BS-B4	1173	BSW65	2030	BSX94A	1617
BF597	2023	BFW21	2023	BFY30	1617	BLY68	2020	BSS10	1617	BSW66	2030	BSX95	2030
BF598	2023	BFW22	2023	BFY33	1617	BLY70	2017	BSS21	1617	BSW72	2023	BSX96	2030
BFT20	2023	BFW23	2023	BFY34	2030	BLY79	2020	BSS22	1617	BSW73	2023	BSX97	1617
BFT21	2023	BFW29	1617	BFY37	1617	BLY88	2020	BSS26	1617	BSW74	2023	BSY10	1617
BFT22	2023	BFW31	2023	BFY37I	1617	BLY89	2020	BSS28	2030	BSW75	2023	BSY11	1617
BFT29	2030	BFW32	1617	BFY39	1617	BLY91	2017	BSS29	2030	BSW81	2023	BSY17	1617
BFT30	2030	BFW41	2016	BFY39/1	1617	BLY92	2020	BSS40	2030	BSW82	1617	BSY18	1617
BFT31	2030	BFW46	1617	BFY39/2	1617	BN-66	1617	BSS41	2030	BSW83	1617	BSY19	2009
BFT39	2030	BFW50	1171	BFY39/3	1617	BN7133	2041	BSV21	2023	BSW84	1617	BSY20	1617
BFT40	2030	BFW54	2035	BFY39/I	1617	BN7214	2041	BSV35	2016	BSW85	1617	BSY21	1617
BFT41	2030	BFW55	2035	BFY39/II	1617	BN7517	1617	BSV35A	1617	BSW88	1617	BSY22	2016
BFT54	2030	BFW56	2035	BFY39/III	1617	BN7518	1617	BSV40	1617	BSW88A	2009	BSY23	2016
BFT55	1617	BFW57	1617	BFY39-1	2016	BN7551	563	BSV41	1617	BSW88B	2009	BSY24	1617
BFT70	2023	BFW60	1617	BFY39-2	2016	BO-71	2016	BSV42	2023	BSW89	1617	BSY25	1617
BFT71	2023	BFW61	2035	BFY39-3	2016	BO319700	705	BSV43A	2023	BSW89A	2009	BSY26	1114
BFV10	2009	BFW63	2016	BFY391	1617	BO470016	2401	BSV44A	2023	BSW89B	2009	BSY27	1617
BFV11	2009	BFW64	2016	BFY40	2030	BO470116	2411	BSV45A	2023	BSW92	1617	BSY28	1617
BFV12	2009	BFW68	1617	BFY44	2030	BP67	1617	BSV46	2023	BSX12	2016	BSY29	1617
BFV20	2023	BFW87	2023	BFY46	2030	BQ67	1617	BSV47A	2023	BSX12A	2030	BSY34	1617
BFV21	2023	BFW89	2023	BFY47	2016	BQ-94	1617	BSV48A	2023	BSX19	1617	BSY38	1617
BFV22	2023	BFW90	2023	BFY48	2016	BR-1	1171	BSV49A	2023	BSX23	2030	BSY39	1617
BFV25	2023	BFX17	2030	BFY49	2016	BR42	1104	BSV51	2030	BSX24	1617	BSY40	2023
BFV26	2023	BFX18	2016	BFY50	2030	BR44	1104	BSV52	2016	BSX25	1617	BSY41	2023
BFV27	2016	BFX19	2016	BFY51	2030	BR46	1104	BSV52R	2016	BSX26	2016	BSY44	2030
BFV28	2016	BFX20	2016	BFY51I	2030	BR47	1104	BSV53	1617	BSX27	2016	BSY45	2030
BFV29	2023	BFX21	2016	BFY52	2030	BR48	1104	BSV53P	2016	BSX30	1617	BSY46	2030
BFV30	2023	BFX29	2023	BFY53	2030	BR52	1104	BSV54	1617	BSX33	2030	BSY48	1617
BFV31	2023	BFX30	2023	BFY55	2030	BR-66	1617	BSV54P	2016	BSX35	2016	BSY49	1617
BFV32	2023	BFX31	2016	BFY56	2030	BR67	1617	BSV55	1617	BSX36	2023	BSY51	2030
BFV33	2023	BFX32	2016	BFY56A	2030	BR81D	1171	BSV55A	2023	BSX38	1617	BSY52	2030
BFV34	2023	BFX35	2023	BFY56B	2030	BR-82	2023	BSV55AP	2023	BSX38A	1617	BSY53	2030
BFV37	2016	BFX37	2023	BFY66	2030	BR84D	1173	BSV55P	2023	BSX38B	1617	BSY54	2030
BFV38	2016	BFX43	1617	BFY67	2030	BR-100B	2017	BSV57	1617	BSX44	1617	BSY55	2030
BFV40	2009	BFX44	1617	BFY67A	2030	BR100B	2017	BSV65FA	2009	BSX45	2030	BSY56	2030
BFV41	2009	BFX45	2016	BFY67C	2030	BR-101B	2020	BSV65FB	2009	BSX45-6	2030	BSY58	1617
BFV42	2009	BFX47	2016	BFY68	2030	BR101B	2020	BSV68	2030	BSX45-10	2030	BSY59	1617
BFV43	2009	BFX50	2030	BFY68A	2030	BR103	1067	BSV77	2016	BSX45-16	2030	BSY61	1617
BFV44	2009	BFX51	2030	BFY69	2016	BR805D	1171	BSV84	2030	BSX46	2030	BSY62	1617
BFV45	2009	BFX52	2030	BFY69A	2016	BR-832	2023	BSV86	2009	BSX46-6	2030	BSY62A	1617
BFV46	2009	BFX59	2009	BFY69B	2016	BR51400-1	1104	BSV87	2009	BSX46-10	2030	BSY63	1617
BFV47	2009	BFX59F	1617	BFY70	2030	BR51401-2	1104	BSV88	1617	BSX46-16	2030	BSY70	1617
BFV48	2009	BFX60	2016	BFY72	1617	BRF151	1171	BSV89	1617	BSX47	2030	BSY71	2030
BFV50	2009	BFX61	2030	BFY73	1617	BRF152	1171	BSV90	1617	BSX47-6	2030	BSY72	1617
BFV51	2009	BFX62	2016	BFY74	1617	BRF154	1173	BSV91	1617	BSX47-10	2030	BSY73	1617
BFV53	2009	BFX65	2023	BFY75	1617	BRF201	1171	BSV92	2058	BSX48	1617	BSY74	1617
BFV54	2009	BFX66	1617	BFY76	1617	BRF202	1171	BSV96	2023	BSX49	1617	BSY75	1617
BFV55	2009	BFX68	2030	BFY77	1617	BRF204	1173	BSV97	2023	BSX51	1617	BSY76	1617
BFV59	2016	BFX68A	2030	BFY78	2016	BRR101	1173	BSV98	2023	BSX51A	1617	BSY77	2030
BFV60	2016	BFX69	2030	BFY79	2016	BRR102	1173	BSW10	2030	BSX52	1617	BSY78	2030
BFV61	2016	BFX69A	2030	BFY80	2030	BRR103	1173	BSW11	1617	BSX52A	1617	BSY80	1617
BFV62	2016	BFX73	2016	BFY85	1617	BRR104	1173	BSW12	1617	BSX53	1617	BSY81	2030
BFV66	2016	BFX74	2030	BFY86	1617	BRR151	1173	BSW13	2016	BSX54	1617	BSY82	2030
BFV81	2023	BFX77	2016	BFY87	2016	BRR152	1173	BSW19	1617	BSX59	2030	BSY83	2030
BFV81A	2023	BFX84	2030	BFY87A	2016	BRR153	1173	BSW20	2023	BSX60	2030	BSY84	2030
BFV81B	2023	BFX85	2030	BFY88	2016	BRR154	1173	BSW21	2023	BSX61	2030	BSY85	2030
BFV82	2023	BFX86	2030	BFY90(SILC)	1617	BRX44	1067	BSW21A	2023	BSX62	2030	BSY86	2030
BFV82A	2023	BFX89	2016	BFY90B	2016	BRX45	1067	BSW22	2023	BSX62B	2030	BSY87	2030
BFV82B	2023	BFX92	1617	BFY94	2023	BRX46	1067	BSW22A	2023	BSX62C	2030	BSY88	2030
BFV82C	2023	BFX92A	1617	BFY99	2030	BRX47	1067	BSW24	2023	BSX62D	2030	BSY89	1617
BFV83	2016	BFX93	1617	BFY167	2016	BRX48	1020	BSW26	2030	BSX63B	2030	BSY90	2030
BFV83A	2016	BFX93A	2016	BFY371	1617	BRX49	1020	BSW27	2030	BSX63C	2030	BSY91	1617
BFV83B	1617	BFX94	1617	BFY391	1617	BRX60	1067	BSW28	2030	BSX66	1617	BSY92	2030
BFV83C	1617	BFX95	1617	BG-0F077	562	BRX61	1067	BSW29	2030	BSX67	1617	BSY93	1617
BFV85	1617	BFX95A	1617	BG-65	1617	BRX62	1067	BSW32	2009	BSX68	1617	BSY95	1617
BFV85A	1617	BFX96	1617	BG71	1617	BRX64	1020	BSW33	1617	BSX69	1617	BSY95A	1617
BFV85B	1617	BFX96A	2030	BG-84	1617	BRY54-100	1067	BSW34	1617	BSX70	2030	BSY165	1617
BFV85C	1617	BFX97	2030	BH4R1	1104	BRY54-300	1020	BSW35	2030	BSX71	2030	BSY168	1617
BFV85D	2016	BFX97A	2030	BH4R6	1114	BRY55-30	1067	BSW39	1617	BSX72	2030	BT67	1617
BFV85E	2016	BFX99	2030	BH71	1617	BRY55-60	1067	BSW39-6	2030	BSX75	1617	BT71	1617
BFV85F	2016	BFY10	1617	BH-DX0038CEZZ	1104	BRY55-100	1067	BSW39-10	2030	BSX76	1617	BT82	2023
BFV85G	2016	BFY11	1617	BI71	1617	BRY55-200	1067	BSW39-16	2030	BSX77	1617	BT-94	1617
BFV86	2023	BFY12	1617	BIP7201	1617	BRY55-300	1020	BSW41	1617	BSX78	1617	BT100A-300R	1020
BFV86A	2023	BFY13	2030	BIW	1617	BS00M	1000	BSW42	1617	BSX79	1617	BT106A	1067
BFV86B	2023	BFY14	2030	BLY10	2041	BS1	1104	BSW42A	1617	BSX79A	2009	BT106B	1067
BFV86C	2023	BFY15	2030	BLY11	2041	BS2	1104	BSW43	1617	BSX79B	2009	BT106C	1020
BFV87	1617	BFY17	2030	BLY20	2017	BS-66	1617	BSW43A	1617	BSX80	1617	BT106D	1020
BFV88	1617	BFY18	1617	BLY21	2020	BS67	1617	BSW44	2023	BSX81	1617	BT929	2016
BFV88A	1617	BFY19	1617	BLY27	2009	BS68	2023	BSW44A	2023	BSX81A	2009	B-T-1030-139	2016

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
BT8667	2035	BY115	1104	BYX58-50	1122	BZV32A	562	BZX71-C6V2	561	BZX96C5V1	565	BZY88-C4V7	565
BT151500R	1020	BY116	1104	BYX58-100	1122	BZV32B	562	BZX71-C9V1	562	BZX96C6V2	561	BZY88-C5V1	565
BTB1000	1114	BY117	1104	BYX58-200	1122	BZV33	562	BZX71-C12	563	BZX96C9V1	562	BZY88-C6V2	561
BTD0105	1000	BY118	1114	BYX60-50	1104	BZV33A	562	BZX71-C15	564	BZX96C12	563	BZY88-C9V1	562
BTD0110	1000	BY119	1114	BYX60-100	1104	BZV33B	562	BZX71B5V1	1114	BZX96C15	564	BZY88-C12	563
BTD0120	1000	BY121	1104	BYX60-200	1104	BZV34	562	BZX71B6V2	561	BZX97-C4V7	565	BZY88-C15	564
BTD0140	1000	BY122	1171	BYX60-300	1104	BZV34A	562	BZX71B9V1	562	BZX97-C5V1	565	BZY88C4V7	565
BTD0320	1000	BY124	1104	BYX60-400	1104	BZV34B	562	BZX71B12	563	BZX97-C6V2	561	BZY88C5V1	565
BTD0340	1000	BY125	1104	BYX60-500	1104	BZV35	562	BZX71B15	564	BZX97-C9V1	562	BZY88C6V2	561
BTM-50	1141	BY126	1104	BYX60-600	1104	BZV35A	562	BZX71C5V1	565	BZX97-C12	563	BZY88C9V1	562
BTM50	1104	BY126/50	1114	BYX60-700	1114	BZV35B	562	BZX71C6V2	561	BZX97-C15	564	BZY88C12	563
BTM1000	1114	BY126/100	1114	BYX55009	1114	BZV36	562	BZX71C9V1	562	BZX97C4V7	565	BZY88C12V	563
BTR1005	1000	BY126/200	1114	BYY31	1104	BZV36A	562	BZX71C12	563	BZX97C5V1	565	BZY88C15	564
BTR1010	1000	BY126/300	1114	BYY32	1104	BZV36B	562	BZX71C15	564	BZX97C6V2	561	BZY88C15V	564
BTR1020	1000	BY126/400	1114	BYY33	1104	BZV41C4V7	565	BZX72	562	BZX97C9V1	562	BZY92/C5V1	565
BTS3500	1122	BY-127	1104	BYY34	1104	BZV41C5V1	565	BZX72A	562	BZX97C12	563	BZY92/C15	564
BTX068	1617	BY127/500	1114	BYY35	1114	BZV41C6V2	561	BZX72B	562	BZX97C15	564	BZY92C4V7	565
BTX-094	1617	BY127/600	1114	BYY36	1114	BZV41C9V1	562	BZX72C	562	BZY17C6V2	561	BZY92C5V1	565
BTX-095	1617	BY127/700	1114	BYY37	1114	BZV41C12	563	BZX74-C6V2	561	BZY17C9V1	562	BZY92C6V2	561
BTX-096	1617	BY128	1114	BYY60	1114	BZV41C15	564	BZX74-C9V1	562	BZY17C12	563	BZY92C9V1	562
BTX18-100	1067	BY129	1114	BYY61	1114	BZV49C6V2	561	BZX74-C12	563	BZY17C15	564	BZY92C12	563
BTX18-200	1067	BY130	1104	BZ-050	565	BZV49C9V1	562	BZX74C6V2	561	BZY18	563	BZY92C15	564
BTX18-300	1020	BY134	1104	BZ050	565	BZV49C12	563	BZX74C9V1	562	BZY18C6V2	561	BZY94/C12	563
BTX18-400	1020	BY135	1104	BZ-058	561	BZV85C5V1	565	BZX74C12	563	BZY18C9V1	562	BZY94/C15	564
BTX30-100	1067	BY141	1104	BZ058	561	BZV85C6V2	561	BZX78C6V2	561	BZY18C11	563	BZY94-C12	563
BTX30-200	1067	BY153	1104	BZ-061	561	BZV85C9V1	562	BZX78C9V1	562	BZY18C12	563	BZY94-C15	564
BTX30-300	1020	BY156	1114	BZ061	561	BZV85C12	563	BZX78C12	563	BZY19	564	BZY94C12	563
BTX30-400	1020	BY159-50	1173	BZ-063	561	BZV85C15	564	BZX78C15	564	BZY56	565	BZY94C15	564
BTX-2367B	1617	BY159-200	1173	BZ063	561	BZV85C33	562	BZX79/C9V1	562	BZY57	565	C05-10	1114
BTX2367B	1617	BY159-400	1173	BZ-080	562	BZX10	561	BZX79/C12	563	BZY59	561	C06C	1104
BU67	1617	BY164	1171	BZ-085	562	BZX14	562	BZX79-C4V7	565	BZY63	562	C08P1R	1101
BU71	1617	BY172	1114	BZ-088	562	BZX17	563	BZX79-C5V1	565	BZY65	565	C049	1144
BU105	2055	BY173	1114	BZ088	562	BZX19	564	BZX79-C6V2	561	BZY66	561	C0406	1114
BU105-02	2055	BY179	1173	BZ-090	562	BZX29-C5V1	565	BZX79-C9V1	562	BZY68	562	C0410	1114
BU108	2055	BY188	1114	BZ090	562	BZX29-C6V2	561	BZX79-C12	563	BZY69	563	C0510	1114
BU115	2055	BY201	1144	BZ090.1Z9	562	BZX29-C9V1	562	BZX79-C15	564	BZY83/C5V1	565	C014348	1770
BU204	2055	BY201-200	1104	BZ-092	562	BZX29-C12	563	BZX79B9V1	562	BZY83/C15	564	C014809	2023
BU205	2055	BY201-300	1104	BZ092	562	BZX29-C15	564	BZX79C4V7	565	BZY83/C16	564	C018991	1604
BU206	2055	BY201-400	1104	BZ-094	562	BZX29C4V7	565	BZX79C5V1	565	BZY83/D15	564	C060607	1122
BU207	2055	BY201-500	1104	BZ094	562	BZX29C5V1	565	BZX79C6V2	561	BZY83-C4V7	565	C060612	2506
BU208	2055	BY201-600	1104	BZ-0901	562	BZX29C6V2	561	BZX79C9V1	562	BZY83-C5V1	565	C1A	1122
BU208A	2055	BY206	1144	BZ1-90	562	BZX29C9V1	562	BZX79C12	563	BZY83-C6V2	561	C1B	1104
BU208B	2055	BY210-400	1103	BZ4.7	565	BZX29C12	563	BZX79C15	564	BZY83-C9V1	562	C1H	1104
BU209	2055	BY251	1114	BZ5.1	565	BZX29C15	564	BZX79C15V	564	BZY83-C12	563	C1.0E02	1114
BU225	2055	BY252	1114	BZ6.2	561	BZX46-C4V7	565	BZX80-C9V1	562	BZY83-C15	564	C2AJ102	1104
BU326	2055	BY253	1114	BZ9.1	562	BZX46-C5V1	565	BZX81-C12	563	BZY83-D4V7	565	C4C4.7	565
BU326A	2055	BY254	1114	BZ-12	563	BZX46-C6V2	561	BZX81-C15	564	BZY83-D12	563	C4C5.1	565
BU326R	2055	BY255	1114	BZ12	563	BZX46-C9V1	562	BZX83-C4V7	565	BZY83-D15	564	C4C6.2	561
BU326S	2055	BY256	1171	BZ67	1617	BZX46-C12	563	BZX83-C5V1	565	BZY83C4V7	565	C4C9.1	562
BU500	2055	BY318-100	1122	BZ71	1617	BZX46-C15	564	BZX83-C6V2	561	BZY83C5V1	565	C4C12	563
BU526	2055	BY401	1104	BZ106	563	BZX46C4V7	565	BZX83-C9V1	562	BZY83C6V2	561	C4C15	564
BU536	2055	BY402	1104	BZ106A	563	BZX46C5V1	565	BZX83-C15	564	BZY83C9V1	562	C4C120	563
BU546	2055	BY403	1104	BZ107	564	BZX46C6V2	561	BZX83C4V7	565	BZY83C12	563	C5D5234	561
BUC-97704-2	2009	BY404	1104	BZ107A	564	BZX46C9V1	562	BZX83C5V1	565	BZY83C15	564	C5D5239	562
BUT93	2023	BY405	1104	BZ-115	563	BZX46C12	563	BZX83C6V2	561	BZY83C16	564	C5D5242	563
BUY10	2041	BY406	1104	BZ115	563	BZX46C15	564	BZX83C9V1	562	BZY83D4V7	565	C5D5245	564
BUY11	2041	BY407	1104	BZ-120	563	BZX55-C4V7	565	BZX83C12	563	BZY83D12	563	C6	2055
BUY24	2020	BY1001	1114	BZ120	563	BZX55-C5V1	565	BZX83C12V	563	BZY83D15	564	C6A	1067
BUY44	2041	BY1002	1114	BZ-145	564	BZX55-C6V2	561	BZX83C15	564	BZY84D12	563	C6B	1067
BV25	1104	BY1101	1114	BZ145	564	BZX55-C9V1	562	BZX83C15V	564	BZY85/C5V1	565	C6B3	1067
BV67	1617	BY1102	1114	BZ-150	564	BZX55-C12	563	BZX84C4V7	565	BZY85/C15	564	C6F	1067
BV71	1617	BY1200	1114	BZ150	564	BZX55-C15	564	BZX84C5V1	565	BZY85/D15	564	C6U	1067
BW67	1617	BY1201	1114	BZ821T	561	BZX55C4V7	565	BZX84C6V2	561	BZY85-C4V7	565	C7	2023
BW71	1617	BY1202	1114	BZ821TF	561	BZX55C5V1	565	BZX84C9V1	562	BZY85-C6V1	561	C7A4	1067
BX090	562	BYS21	1104	BZ821TT	561	BZX55C6V2	561	BZX84C12	563	BZY85-C6V2	561	C8	2023
BX67	1617	BYV950	1104	BZ963	563	BZX55C9V1	562	BZX85C4V7	565	BZY85-C9V1	562	C-10-20A	1122
BX71	1617	BYW27-50	1101	BZ963F	563	BZX55C12	563	BZX85C5V1	565	BZY85-C12	563	C10-20A	1122
BX909	562	BYX10	1114	BZ963T	563	BZX55C12V	563	BZX85C6V2	561	BZY85-C15	564	C10-22C	1122
BXY10	1114	BYX12/400	1114	BZ965	564	BZX55C15	564	BZX85C9V1	562	BZY85-D4V7	565	C11S1C1E1C	1104
BXY63	562	BYX13/600	1114	BZ965F	564	BZX55C15V	564	BZX85C12	563	BZY85-D12	563	C12	2030
BY12-00	1114	BYX22/200	1104	BZ965T	564	BZX58-C9V1	562	BZX85C15	564	BZY85-D15	564	C12A(TRANS)	2030
BY67	1617	BYX22/400	1104	BZ1021V4	1122	BZX58C9V1	562	BZX88C4V7	565	BZY85B6V2	561	C12B(TRANS)	2030
BY71	1617	BYX22/600	1104	BZ2090	562	BZX59-C15	564	BZX88C5V1	565	BZY85B15	564	C12C(TRANS)	2030
BY100	1114	BYX22/800	1114	BZV18C6V2	561	BZX59C12	563	BZX88C6V2	561	BZY85C4V7	565	C12D(TRANS)	2030
BY1005	1114	BYX22-200	1104	BZV18C9V1	562	BZX59C15	564	BZX88C9V1	562	BZY85C5V1	565	C12E	2030
BY101	1104	BYX22-400	1103	BZV18C12	563	BZX63C9V1	562	BZX88C12	563	BZY85C6V2	561	C12F(TRANS)	2030
BY102	1104	BYX22-600	1104	BZV27	561	BZX64C12	563	BZX88C15	564	BZY85C9V1	562	C12G(TRANS)	2030
BY104	1114	BYX22-800	1114	BZV27A	561	BZX64C15	564	BZX95-C6V2	561	BZY85C12	563	C12GN	2030
BY105	1114	BYX26-60	1114	BZV28	561	BZX69-C9V2	562	BZX95-C9V1	562	BZY85C15	564	C12H(TRANS)	2030
BY106	1104	BYX30/150	1143	BZV28A	561	BZX69-C12	563	BZX95-C12	563	BZY85D4V7	565	C12J	2030
BY107	1104	BYX36-150	1114	BZV29	561	BZX69C12	563	BZX96-C4V7	565	BZY85D12	563	C12K	2030
BY108	1114	BYX36-300	1104	BZV29A	561	BZX71-B5V1	565	BZX96-C5V1	565	BZY85D15	564	C12L	2030
BY109	1114	BYX36-600	1104	BZV30	561	BZX71-B6V2	561	BZX96-C6V2	561	BZY88/C5V1	565	C12M	2030
BY111	1104	BYX38	1114	BZV30A	561	BZX71-B9V1	562	BZX96-C9V1	562	BZY88/C6V2	561	C12OR	2030
BY112	1104	BYX45-600R	1114	BZV31	561	BZX71-B12	563	BZX96-C12	563	BZY88/C9V1	562	C12R	2030
BY113	1104	BYX45-800R	1114	BZV31A	561	BZX71-B15	564	BZX96-C15	564	BZY88/C9V5	562	C12X	2030
BY114	1104	BYX45-1000R	1114	BZV32	562	BZX71-C5V1	565	BZX96C4V7	565	BZY88/C9V7	565	C12Y	2030

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C62OR	1617	C69K	2030	C87OR	1617	C99B	1617	C106C1	1020	C108D(TRANS)	2030	C112(2S)	2030
C62R	1617	C69L	2030	C87R	1617	C99C	1617	C106C2	1020	C108D1	1020	C112A	2030
C62X	1617	C69M	2030	C87X	1617	C99D	1617	C106C3	1020	C108D2	1020	C112B	2030
C62Y	1617	C69OR	2030	C87Y	1617	C99E	1617	C106C4	1020	C108D3	1020	C112C	2030
C63	1617	C69R	2030	C88(2S)	2030	C99F	1617	C106D	1020	C108D4	1020	C112D	2030
C63(2S)	2016	C69X	2030	C88A(2S)	2030	C99G	1617	C106D1	1020	C108E(TRANS)	2030	C112E	2030
C63A	2016	C69Y	2030	C88B	2030	C99GN	1617	C106D2	1020	C108F	1067	C112F	2030
C63B	2016	C74(2S)	1617	C88C	2030	C99H	1617	C106D3	1020	C108F(TRANS)	2030	C112G	2030
C63D	2016	C74-GR	1617	C88D	2030	C99J	1617	C106D4	1020	C108F1	1067	C112GN	2030
C63E	2016	C74-O	1617	C88E	2030	C99K	1617	C106F	1067	C108F2	1067	C112H	2030
C63F	2016	C74-R	1617	C88F	2030	C99L	1617	C106F1	1067	C108F3	1067	C112J	2030
C63G	2016	C74-Y	1617	C88G	2030	C99M	1617	C106F2	1067	C108F4	1067	C112K	2030
C63GN	2016	C74A	1617	C88GN	2030	C99OR	1617	C106F3	1067	C108G	2030	C112L	2030
C63H	2016	C74B	1617	C88H	2030	C99R	1617	C106F4	1067	C108GN	2030	C112M	2030
C63J	2016	C74C	1617	C88J	2030	C99X	1617	C106G1	1067	C108H	2030	C112OR	2030
C63K	2016	C74D	1617	C88K	2030	C99Y	1617	C106G2	1067	C108J	2030	C112R	2030
C63L	2016	C74E	1617	C88L	2030	C100(2S)	1617	C106G3	1067	C108K	2030	C112X	2030
C63M	2016	C74F	1617	C88M	2030	C100-OY(2S)	1617	C106Q	1067	C108L	2030	C112Y	2030
C63OR	2016	C74G	1617	C88OR	2030	C100A	1617	C106Q1	1067	C108M(TRANS)	2030	C113(2S)	2030
C63R	2016	C74GN	1617	C88R	2030	C100B	1617	C106Q2	1067	C108OR	2030	C113A	2030
C63X	2016	C74H	1617	C88X	2030	C100C	1617	C106Q3	1067	C108Q2	1067	C113B	2030
C63Y	2016	C74J	1617	C88Y	2030	C100D	1617	C106Q4	1067	C108Q3	1067	C113C	2030
C64	2030	C74K	1617	C92(2S)	2020	C100E	1617	C106Y	1067	C108Q4	1067	C113D	2030
C64(2S)	2030	C74L	1617	C93(2S)	2020	C100F	1617	C106Y1	1067	C108R	2030	C113E	2030
C64A	2030	C74M	1617	C94(2S)	2020	C100G	1617	C106Y2	1067	C108X	2030	C113F	2030
C64B	2030	C74R	1617	C94AP	2020	C100GN	1617	C106Y3	1067	C108Y(TRANS)	2030	C113G	2030
C64C	2030	C74X	1617	C94E	2062	C100J	1617	C106Y4	1067	C108Y2	1067	C113GN	2030
C64D	2030	C74Y	1617	C95	2030	C100L	1617	C107	2020	C108Y3	1067	C113H	2030
C64E	2030	C79(2S)	2058	C95(2S)	2030	C100M	1617	C107A	1067	C108Y4	1067	C113J	2030
C64F	2030	C79A	2058	C95A	2030	C100OR	1617	C107A1	1067	C109(2S)	2030	C113K	2030
C64G	2030	C79B	2058	C95A(2S)	2030	C100R	1617	C107A2	1067	C109A(2S)	2030	C113L	2030
C64GN	2030	C79C	2058	C95B	2030	C100X	1617	C107A3	1067	C109A-O	2030	C113M	2030
C64H	2030	C79D	2058	C95C	2030	C100Y	1617	C107B	1067	C109A-R	2030	C113OR	2030
C64K	2030	C79E	2058	C95D	2030	C103	1617	C107B1	1067	C109A-Y	2030	C113R	2030
C64L	2030	C79F	2058	C95E(2S)	2030	C103(2S)	1617	C107B2	1067	C109B	2030	C113X	2030
C64M	2030	C79G	2058	C95F	2030	C103A(2S)	1617	C107B3	1067	C109C	2030	C113Y	2030
C64OR	2030	C79GN	2058	C95G	2030	C103A(SCR)	1067	C107B4	1067	C109D	2030	C114(2S)	2030
C64R	2030	C79H	2058	C95GN	2030	C103B	1067	C107C	1020	C109E	2030	C114A	2030
C64X	2030	C79J	2058	C95H	2030	C103B(2S)	1617	C107C1	1020	C109F	2030	C114B	2030
C64Y	2030	C79K	2058	C95J	2030	C103C	1617	C107C2	1020	C109G	2030	C114C	2030
C64Y-RST	2030	C79L	2058	C95K	2030	C103D	1617	C107C3	1020	C109G1	2030	C114D	2030
C67(2S)	1617	C79M	2058	C95L	2030	C103E	1617	C107C4	1020	C109GN	2030	C114E	2030
C67A	1617	C79OR	2058	C95M	2030	C103F	1617	C107D	1020	C109J	2030	C114F	2030
C67B	1617	C79R	2058	C95OR	2030	C103G	1617	C107D1	1020	C109K	2030	C114G	2030
C67C	1617	C79X	2058	C95R	2030	C103GN	1617	C107D2	1020	C109L	2030	C114GN	2030
C67D	1617	C79Y	2058	C95X	2030	C103H	1617	C107D3	1020	C109OR	2030	C114H	2030
C67E	1617	C80	2016	C95Y	2030	C103J	1617	C107D4	1020	C109R	2030	C114J	2030
C67F	1617	C80(2S)	2016	C96	2009	C103K	1617	C107F	1067	C109X	2030	C114K	2030
C67G	1617	C80A(TRANS)	2016	C97	2030	C103L	1617	C107F1	1067	C109Y	2030	C114L	2030
C67GN	1617	C80B(TRANS)	2016	C97(2S)	2030	C103M	1617	C107F2	1067	C110(2S)	1617	C114M	2030
C67H	1617	C80C(TRANS)	2016	C97A(2S)	2030	C103Q	1067	C107F3	1067	C110A	1617	C114OR	2030
C67J	1617	C80D(TRANS)	2016	C97B	2030	C103X	1617	C107F4	1067	C110B	1617	C114R	2030
C67K	1617	C80E(TRANS)	2016	C97C	2030	C103Y	1067	C107G4	2020	C110C	1617	C114X	2030
C67L	1617	C80F(TRANS)	2016	C97D	2030	C103Y(2S)	1617	C107G5	2020	C110D	1617	C114Y	2030
C67M	1617	C80G	2016	C97E	2030	C103YY	1067	C107G6	2020	C110E	1617	C115(2S)	2030
C67R	1617	C80G(TRANS)	2016	C97F	2030	C104	1617	C107Q	1067	C110F	1617	C115-1	2030
C67X	1617	C80GN	2016	C97G	2030	C104(2S)	1617	C107Q1	1067	C110G	1617	C115-2	2030
C67Y	1617	C80H(TRANS)	2016	C97GN	2030	C104A(2S)	1617	C107Q2	1067	C110GN	1617	C115-3	2030
C68(2S)	1617	C80J	2016	C97H	2030	C104B	1617	C107Q3	1067	C110H	1617	C115-43	2030
C68A	1617	C80K	2016	C97J	2030	C104C	1617	C107Q4	1067	C110J	1617	C115A	2030
C68B	1617	C80L	2016	C97K	2030	C104D	1617	C107Y	1067	C110K	1617	C115B	2030
C68C	1617	C80M(TRANS)	2016	C97L	2030	C104E	1617	C107Y1	1067	C110L	1617	C115C	2030
C68D	1617	C80OR	2016	C97M	2030	C104F	1617	C107Y2	1067	C110M	1617	C115D	2030
C68E	1617	C80R	2016	C97OR	2030	C104G	1617	C107Y3	1067	C110OR	1617	C115E	2030
C68F	1617	C80X	2016	C97R	2030	C104GN	1617	C107Y4	1067	C110R	1617	C115F	2030
C68G	1617	C80Y	2016	C97X	2030	C104H	1617	C108(2S)	2030	C110X	1617	C115G	2030
C68GN	1617	C82	2016	C97Y	2030	C104J	1617	C108A	1067	C110Y	1617	C115GN	2030
C68H	1617	C82BN	2016	C98(2S)	1617	C104K	1617	C108A(TRANS)	2030	C111(2S)	1617	C115H	2030
C68J	1617	C82R	2016	C98A	1617	C104L	1617	C108A1	1067	C111A	1617	C115J	2030
C68K	1617	C82S	2016	C98B	1617	C104M	1617	C108A2	1067	C111B	2016	C115K	2030
C68L	1617	C83	2016	C98C	1617	C104OR	1617	C108A3	1067	C111B(TRANS)	1617	C115L	2030
C68M	1617	C83-829	1104	C98D	1617	C104R	1617	C108A4	1067	C111C	1617	C115M	2030
C68OR	1617	C83-880	1104	C98E(2S)	1617	C104X	1617	C108A-O	2030	C111D	1617	C115OR	2030

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276
C115R	2030	C120M	1617	C127K	1617	C134L	1617	C140K	2030	C152HC	1617	C159G	1617
C115X	2030	C120R	1617	C127L	1617	C134M	1617	C140L	2030	C152J	1617	C159GN	1617
C115Y	2030	C120Y	1617	C127M(TRANS)	1617	C134OR	1617	C140M	2030	C152K	1617	C159H	1617
C116(2S)	2009	C121(2S)	2030	C127OR	1617	C134R	1617	C140OR	2030	C152L	1617	C159J	1617
C116-OR	2009	C121A	2030	C127R	1617	C134X	1617	C140R	2030	C152M(TRANS)	1617	C159K	1617
C116A(TRANS)	2009	C121B	2030	C127X	1617	C134Y	1617	C140X	2030	C152OR	1617	C159L	1617
C116B(TRANS)	2009	C121C	2030	C127Y	1617	C135(2S)	1617	C140Y	2030	C152R	1617	C159M(TRANS)	1617
C116C(TRANS)	2009	C121D	2030	C130(2S)	2030	C135A(TRANS)	1617	C141	2009	C152X	1617	C159OR	1617
C116D(TRANS)	2009	C121E	2030	C130A	2030	C135B(TRANS)	1617	C142	2009	C152Y	1617	C159R	1617
C116E	2009	C121F	2030	C130B	2030	C135C(TRANS)	1617	C143	2009	C153	2009	C159X	1617
C116F(TRANS)	2009	C121G	2030	C130C	2030	C135D(TRANS)	1617	C144	2009	C154D	2020	C159Y	1617
C116G	2009	C121GN	2030	C130D	2030	C135E(TRANS)	1617	C144A	2009	C155	2016	C160(2S)	1617
C116GN	2009	C121H	2030	C130E	2030	C135F(TRANS)	1617	C145	2009	C155(2S)	2016	C160A	1617
C116H	2009	C121J	2030	C130F	2030	C135G	1617	C146	2009	C155A(TRANS)	2016	C160B	1617
C116J	2009	C121L	2030	C130GN	2030	C135GN	1617	C146A(2S)	2009	C155B(TRANS)	2016	C160C	1617
C116K	2009	C121M	2030	C130H	2030	C135H	1617	C146B	1617	C155C(TRANS)	2016	C160D	1617
C116L	2009	C121OR	2030	C130J	2030	C135J	1617	C148	2016	C155D(TRANS)	2016	C160E	1617
C116M(TRANS)	2009	C121R	2030	C130K	2030	C135L	1617	C148A	2016	C155E(TRANS)	2016	C160F	1617
C116OR	2009	C121X	2030	C130L	2030	C135M(TRANS)	1617	C148B	2016	C155F	2016	C160G	1617
C116R	2009	C121Y	2030	C130M	2030	C135OR	1617	C148D	2016	C155GN	2016	C160GN	1617
C116T(2S)	2009	C122	2009	C130OR	2030	C135R	1617	C148E	2016	C155H	2016	C160H	1617
C116X	2009	C122(2S)	2030	C130R	2030	C135X	1617	C148F	2016	C155J	2016	C160J	1617
C116Y	2009	C122A(TRANS)	2030	C130X	2030	C135Y	1617	C148G	2016	C155K	2016	C160K	1617
C117(2S)	2030	C122B(TRANS)	2030	C130Y	2030	C136(2S)	1617	C148GN	2016	C155L	2016	C160L	1617
C117A	2030	C122C(TRANS)	2030	C131(2S)	1617	C136D(2S)	1617	C148H	2016	C155M(TRANS)	2016	C160M	1617
C117B	2030	C122D(TRANS)	2030	C131A	1617	C137	1617	C148J	2016	C155OR	2016	C160OR	1617
C117C	2030	C122E(TRANS)	2030	C131B	1617	C137A	1617	C148K	2016	C155R	2016	C160R	1617
C117D	2030	C122F(TRANS)	2030	C131C	1617	C137B	1617	C148L	2016	C155X	2016	C160X	1617
C117F	2030	C122G	2030	C131D	1617	C137C	1617	C148M(TRANS)	2016	C155Y	2016	C160Y	1617
C117G	2030	C122GN	2030	C131E	1617	C137D	1617	C148OR	2016	C156(2S)	2016	C162	2009
C117GN	2030	C122H	2030	C131F	1617	C137E(TRANS)	1617	C148R	2016	C156A(TRANS)	2016	C166	1617
C117H	2030	C122J	2030	C131G	1617	C137F	1617	C148X	2016	C156B(TRANS)	2016	C166(2S)	1617
C117J	2030	C122K	2030	C131GN	1617	C137G	1617	C148Y	2016	C156C(TRANS)	2016	C166A	1617
C117K	2030	C122L	2030	C131H	1617	C137GN	1617	C149	2030	C156D(TRANS)	2016	C166B	1617
C117L	2030	C122M(TRANS)	2030	C131J	1617	C137H	1617	C150(2S)	2030	C156E(TRANS)	2016	C166C	1617
C117M	2030	C122OR	2030	C131L	1617	C137J	1617	C150-OR	2030	C156F	2016	C166D	1617
C117OR	2030	C122R	2030	C131M	1617	C137K	1617	C150A	2030	C156G(TRANS)	2016	C166E	1617
C117R	2030	C122X	2030	C131OR	1617	C137L	1617	C150B	2030	C156GN	2016	C166F	1617
C117X	2030	C122Y	2030	C131R	1617	C137M(TRANS)	1617	C150C	2030	C156H	2016	C166G	1617
C117Y	2030	C123	2030	C131T	1617	C137OR	1617	C150D	2030	C156J	2016	C166GN	1617
C118(2S)	2030	C123A	2030	C131Y	1617	C137R	1617	C150E(TRANS)	2030	C156K	2016	C166H	1617
C118A(TRANS)	2030	C123B	2030	C132(2S)	1617	C137X	1617	C150F	2030	C156L	2016	C166J	1617
C118B(TRANS)	2030	C123C	2030	C132A	1617	C137Y	1617	C150G	2030	C156M(TRANS)	2016	C166K	1617
C118C(TRANS)	2030	C123D	2030	C132B	1617	C138	1617	C150GN	2030	C156OR	2016	C166L	1617
C118D(TRANS)	2030	C123E	2030	C132C	1617	C138A(2S)	1617	C150H	2030	C156R	2016	C166M	1617
C118E(TRANS)	2030	C123F	2030	C132D	1617	C138B	1617	C150J	2030	C156X	2016	C166OR	1617
C118F(TRANS)	2030	C123G	2030	C132E	1617	C138C	1617	C150K	2030	C156Y	2016	C166R	1617
C118G	2030	C123GN	2030	C132F	1617	C138D	1617	C150L	2030	C157(2S)	1617	C166X	1617
C118GN	2030	C123H	2030	C132G	1617	C138E	1617	C150M(TRANS)	2030	C157A(TRANS)	1617	C166Y	1617
C118H	2030	C123J	2030	C132GN	1617	C138F	1617	C150OR	2030	C157B(TRANS)	1617	C167(2S)	1617
C118J	2030	C123K	2030	C132H	1617	C138G	1617	C150R	2030	C157C(TRANS)	1617	C167A	1617
C118L	2030	C123L	2030	C132J	1617	C138GN	1617	C150T	2030	C157D(TRANS)	1617	C167B	1617
C118M(TRANS)	2030	C123M	2030	C132K	1617	C138H	1617	C150T(2S)	2030	C157E(TRANS)	1617	C167C	1617
C118OR	2030	C123OR	2030	C132L	1617	C138J	1617	C150X	2030	C157F	1617	C167D	1617
C118R	2030	C123R	2030	C132M	1617	C138L	1617	C150Y	2030	C157G(TRANS)	1617	C167E	1617
C118X	2030	C123X	2030	C132OR	1617	C138M	1617	C151(2S)	1617	C157GN	1617	C167F	1617
C118Y	2030	C123Y	2030	C132R	1617	C138OR	1617	C151A	1617	C157J	1617	C167G	1617
C119(2S)	2030	C124(2S)	2030	C132X	1617	C138R	1617	C151B	1617	C157K	1617	C167GN	1617
C119A	2030	C124A(TRANS)	2030	C132Y	1617	C138S	1617	C151C	1617	C157L	1617	C167H	1617
C119B	2030	C124B(TRANS)	2030	C133(2S)	1617	C138X	1617	C151D	1617	C157M(TRANS)	1617	C167K	1617
C119C	2030	C124C(TRANS)	2030	C133A	1617	C139	1617	C151E(TRANS)	1617	C157OR	1617	C167L	1617
C119D	2030	C124D(TRANS)	2030	C133C	1617	C139A	1617	C151G	1617	C157R	1617	C167M	1617
C119E	2030	C124E(TRANS)	2030	C133D	1617	C139B	1617	C151GN	1617	C157Y	1617	C167OR	1617
C119F	2030	C124F(TRANS)	2030	C133E	1617	C139C	1617	C151H	1617	C158(2S)	1617	C167X	1617
C119G	2030	C124G	2030	C133F	1617	C139D	1617	C151HA	1617	C158A	1617	C167Y	1617
C119GN	2030	C124GN	2030	C133G	1617	C139E	1617	C151HB	1617	C158B	1617	C168	2009
C119H	2030	C124H	2030	C133GN	1617	C139F	1617	C151HC	1617	C158C	1617	C169(2S)	1617
C119J	2030	C124J	2030	C133H	1617	C139G	1617	C151J	1617	C158D	1617	C170(2S)	1617
C119K	2030	C124K	2030	C133J	1617	C139GN	1617	C151K	1617	C158E(TRANS)	1617	C170A	1617
C119L	2030	C124L	2030	C133K	1617	C139H	1617	C151L	1617	C158F	1617	C170B	1617
C119M	2030	C124M(TRANS)	2030	C133L	1617	C139J	1617	C151M(TRANS)	1617	C158G(TRANS)	1617	C170C	1617
C119OR	2030	C124OR	2030	C133M	1617	C139K	1617	C151OR	1617	C158GN	1617	C170D	1617
C119R	2030	C124R	2030	C133OR	1617	C139M	1617	C151R	1617	C158H	1617	C170E	1617
C119X	2030	C124X	2030	C133X	1617	C139OR	1617	C151X	1617	C158J	1617	C170F	1617
C119Y	2030	C124Y	2030	C133Y	1617	C139R	1617	C151Y	1617	C158K	1617	C170G	1617
C120(2S)	1617	C125(2S)	2030	C134(2S)	1617	C139X	1617	C152	1617	C158L	1617	C170GN	1617
C120A	1617	C127(2S)	1617	C134A	1617	C139Y	1617	C152A	1617	C158M(TRANS)	1617	C170H	1617
C120B	1617	C127A(TRANS)	1617	C134B(2S)	1617	C140	2030	C152B	1617	C158OR	1617	C170J	1617
C120C	1617	C127B(TRANS)	1617	C134C	1617	C140A(TRANS)	2030	C152C	1617	C158R	1617	C170K	1617
C120D	1617	C127C(TRANS)	1617	C134D	1617	C140C(TRANS)	2030	C152D	1617	C158X	1617	C170L	1617
C120E	1617	C127D(TRANS)	1617	C134E	1617	C140D(TRANS)	2030	C152E(TRANS)	1617	C158Y	1617	C170M	1617
C120F	1617	C127E(TRANS)	1617	C134F	1617	C140E	2030	C152F	1617	C159(2S)	1617	C170OR	1617
C120G	1617	C127F(TRANS)	1617	C134G	1617	C140F(TRANS)	2030	C152G	1617	C159A	1617	C170R	1617
C120GN	1617	C127G	1617	C134GN	1617	C140G	2030	C152GN	1617	C159B	1617	C170X	1617
C120H	1617	C127GN	1617	C134H	1617	C140GN	2030	C152H	1617	C159C	1617	C170Y	1617
C120J	1617	C127H	1617	C134J	1617	C140H	2030	C152HA	1617	C159D	1617	C171(2S)	1617
C120K	1617	C127J	1617	C134K	1617	C140J	2030	C152HB	1617	C159F(TRANS)	1617	C171A	1617

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C171B	1617	C187R	2016	C192M	1617	C197L	1617	C204A	1617	C210OR	2030	C218M	2030
C171C	1617	C187X	2016	C192OR	1617	C197M	1617	C204B	1617	C210R	2030	C218OR	2030
C171D	1617	C187Y	2016	C192R	1617	C197OR	1617	C204C	1617	C210X	2030	C218R	2030
C171E	1617	C188(2S)	2030	C192X	1617	C197R	1617	C204D	1617	C210Y	2030	C218X	2030
C171F	1617	C188A(2S)	2030	C192Y	1617	C197X	1617	C204E	1617	C211(2S)	2030	C218Y	2030
C171G	1617	C188AB(2S)	2030	C193(2S)	1617	C197Y	1617	C204F	1617	C211A	2030	C219	2016
C171GN	1617	C188B	2030	C193A	1617	C198(2S)	2041	C204G	1617	C211B	2030	C220(2S)	2030
C171H	1617	C188C	2030	C193B	1617	C198A	2041	C204GN	1617	C211C	2030	C220A(TRANS)	2030
C171J	1617	C188D	2030	C193C	1617	C198H	2041	C204H	1617	C211D	2030	C220B(TRANS)	2030
C171K	1617	C188E	2030	C193D	1617	C199(2S)	1617	C204J	1617	C211F	2030	C220C(TRANS)	2030
C171L	1617	C188F	2030	C193E	1617	C199A	1617	C204K	1617	C211G	2030	C220D(TRANS)	2030
C171M	1617	C188G	2030	C193F	1617	C199B	1617	C204L	1617	C211GN	2030	C220E(TRANS)	2030
C171OR	1617	C188GN	2030	C193G	1617	C199C	1617	C204M	1617	C211H	2030	C220F(TRANS)	2030
C171R	1617	C188J	2030	C193GN	1617	C199D	1617	C204OR	1617	C211J	2030	C220G	2030
C171X	1617	C188K	2030	C193H	1617	C199E	1617	C204R	1617	C211K	2030	C220GN	2030
C171Y	1617	C188L	2030	C193J	1617	C199F	1617	C204X	1617	C211L	2030	C220H	2030
C172(2S)	1617	C188M	2030	C193K	1617	C199G	1617	C204Y	1617	C211M	2030	C220K	2030
C172A(2S)	1617	C188OR	2030	C193L	1617	C199GN	1617	C205(2S)	1617	C211OR	2030	C220L	2030
C172B	1617	C188R	2030	C193M	1617	C199H	1617	C205A(TRANS)	1617	C211R	2030	C220M(TRANS)	2030
C172C	1617	C188X	2030	C193OR	1617	C199J	1617	C205B(TRANS)	1617	C211X	2030	C220OR	2030
C172D	1617	C188Y	2030	C193R	1617	C199K	1617	C205C(TRANS)	1617	C211Y	2030	C220R	2030
C172E	1617	C189(2S)	2030	C193X	1617	C199L	1617	C205D(TRANS)	1617	C212(2S)	2030	C220X	2030
C172F	1617	C189A	2030	C194(2S)	1617	C199M	1617	C205F	1617	C212A	2030	C220Y	2030
C172G	1617	C189B	2030	C194A	1617	C199OR	1617	C205G	1617	C212B	2030	C221(2S)	2030
C172GN	1617	C189C	2030	C194B	1617	C199R	1617	C205GN	1617	C212C	2030	C221A	2030
C172H	1617	C189D	2030	C194C	1617	C199X	1617	C205H	1617	C212D	2030	C221B	2030
C172J	1617	C189E	2030	C194D	1617	C199Y	1617	C205J	1617	C212E	2030	C221C	2030
C172K	1617	C189F	2030	C194E	1617	C200	1617	C205K	1617	C212F	2030	C221D	2030
C172L	1617	C189G	2030	C194F	1617	C200A	1617	C205L	1617	C212G	2030	C221E	2030
C172M	1617	C189GN	2030	C194G	1617	C200B	1617	C205M	1617	C212GN	2030	C221F	2030
C172OR	1617	C189H	2030	C194GN	1617	C200C	1617	C205OR	1617	C212H	2030	C221G	2030
C172R	1617	C189J	2030	C194H	1617	C200D	1617	C205R	1617	C212J	2030	C221GN	2030
C172Y	1617	C189K	2030	C194J	1617	C200E	1617	C205X	1617	C212K	2030	C221H	2030
C174(2S)	1617	C189L	2030	C194K	1617	C200F	1617	C205Y(TRANS)	1617	C212L	2030	C221J	2030
C174A(2S)	1617	C189M	2030	C194L	1617	C200G	1617	C206(2S)	2016	C212M	2030	C221K	2030
C174B	1617	C189OR	2030	C194M	1617	C200GN	1617	C206-OR	2016	C212OR	2030	C221L	2030
C174C	1617	C189R	2030	C194OR	1617	C200H	1617	C206A	2016	C212R	2030	C221M	2030
C174D	1617	C189X	2030	C194X	1617	C200J	1617	C206B	2016	C212X	2030	C221OR	2030
C174E	1617	C189Y	2030	C194Y	1617	C200K	1617	C206C	2016	C212Y	2030	C221R	2030
C174F	1617	C190(2S)	2030	C195(2S)	1617	C200L	1617	C206D	2016	C216(2S)	2030	C221X	2030
C174G	1617	C190A	2030	C195A	1617	C200M	1617	C206E	2016	C216A	2030	C221Y	2030
C174GN	1617	C190B	2030	C195B	1617	C200OR	1617	C206G	2016	C216B	2030	C222(2S)	2030
C174H	1617	C190C	2030	C195C	1617	C200R	1617	C206GN	2016	C216C	2030	C222A(TRANS)	2030
C174J	1617	C190D	2030	C195D	1617	C200X	1617	C206H	2016	C216D	2030	C222B(TRANS)	2030
C174K	1617	C190E	2030	C195E	1617	C200Y	1617	C206J	2016	C216E	2030	C222C(TRANS)	2030
C174L	1617	C190F	2030	C195F	1617	C201(2S)	1617	C206K	2016	C216F	2030	C222D(TRANS)	2030
C174M	1617	C190GN	2030	C195G	1617	C201A	1617	C206L	2016	C216G	2030	C222E(TRANS)	2030
C174OR	1617	C190H	2030	C195GN	1617	C201B	1617	C206M	2016	C216GN	2030	C222F(TRANS)	2030
C174Q	1617	C190J	2030	C195H	1617	C201C	1617	C206OR	2016	C216H	2030	C222G	2030
C174R	1617	C190K	2030	C195J	1617	C201D	1617	C206R	2016	C216J	2030	C222GN	2030
C174S	1617	C190L	2030	C195K	1617	C201E	1617	C206RED	2016	C216K	2030	C222H	2030
C174X	1617	C190M	2030	C195L	1617	C201F	1617	C206WHITE	2016	C216L	2030	C222J	2030
C174Y	1617	C190OR	2030	C195M	1617	C201G	1617	C206X	2016	C216M	2030	C222L	2030
C186(2S)	2016	C190R	2030	C195OR	1617	C201GN	1617	C206Y	2016	C216OR	2030	C222M(TRANS)	2030
C186A	2016	C190X	2030	C195R	1617	C201H	1617	C208(2S)	2016	C216R	2030	C222OR	2030
C186B	2016	C190Y	2030	C195X	1617	C201J	1617	C208A	2016	C216X	2030	C222R	2030
C186C	2016	C191(2S)	1617	C195Y	1617	C201K	1617	C208B	2016	C216Y	2030	C222X	2030
C186D	2016	C191A	1617	C196(2S)	1617	C201L	1617	C208C	2016	C217(2S)	2030	C222Y	2030
C186E	2016	C191B	1617	C196A	1617	C201M	1617	C208D	2016	C217A	2030	C225(2S)	2030
C186F	2016	C191C	1617	C196B	1617	C201R	1617	C208E	2016	C217B	2030	C225A	2030
C186G	2016	C191D	1617	C196C	1617	C201X	1617	C208F	2016	C217C	2030	C225B	2030
C186GN	2016	C191E	1617	C196D	1617	C201Y	1617	C208G	2016	C217D	2030	C225C	2030
C186H	2016	C191F	1617	C196E	1617	C202(2S)	1617	C208GN	2016	C217E	2030	C225D	2030
C186J	2016	C191G	1617	C196F	1617	C202A	1617	C208H	2016	C217F	2030	C225E	2030
C186K	2016	C191GN	1617	C196G	1617	C202B	1617	C208J	2016	C217G	2030	C225F	2030
C186L	2016	C191H	1617	C196GN	1617	C202C	1617	C208K	2016	C217GN	2030	C225G	2030
C186M	2016	C191J	1617	C196H	1617	C202D	1617	C208L	2016	C217H	2030	C225GN	2030
C186OR	2016	C191K	1617	C196J	1617	C202E	1617	C208M	2016	C217J	2030	C225H	2030
C186R	2016	C191L	1617	C196K	1617	C202F	1617	C208OR	2016	C217K	2030	C225J	2030
C186X	2016	C191M	1617	C196L	1617	C202G	1617	C208R	2016	C217L	2030	C225L	2030
C186Y	2016	C191OR	1617	C196M	1617	C202GN	1617	C208X	2016	C217M	2030	C225M	2030
C187(2S)	2016	C191R	1617	C196OR	1617	C202H	1617	C208Y	2016	C217OR	2030	C225OR	2030
C187-OR	2016	C191X	1617	C196R	1617	C202J	1617	C210	2030	C217R	2030	C225R	2030
C187A	2016	C191Y	1617	C196X	1617	C202K	1617	C210(2S)	2030	C217X	2030	C225X	2030
C187B	2016	C192(2S)	1617	C196Y	1617	C202L	1617	C210A	2030	C217Y	2030	C225Y	2030
C187C	2016	C192A	1617	C197(2S)	1617	C202M	1617	C210B	2030	C218(2S)	2030	C226(2S)	2030
C187D	2016	C192B	1617	C197A	1617	C202OR	1617	C210C	2030	C218A(2S)	2030	C226A	2030
C187E	2016	C192C	1617	C197B	1617	C202R	1617	C210D	2030	C218B	2030	C226B	2030
C187F	2016	C192D	1617	C197C	1617	C202X	1617	C210E	2030	C218C	2030	C226C	2030
C187G	2016	C192E	1617	C197D	1617	C202Y	1617	C210F	2030	C218D	2030	C226D	2030
C187H	2016	C192F	1617	C197E	1617	C203A	1067	C210G	2030	C218E	2030	C226E	2030
C187I	2016	C192G	1617	C197F	1617	C203B	1067	C210GN	2030	C218F	2030	C226F	2030
C187J	2016	C192GN	1617	C197G	1617	C203C	1020	C210H	2030	C218G	2030	C226G	2030
C187K	2016	C192H	1617	C197GN	1617	C203D	1020	C210J	2030	C218GN	2030	C226GN	2030
C187L	2016	C192J	1617	C197H	1617	C203Y	1067	C210K	2030	C218H	2030	C226H	2030
C187M	2016	C192K	1617	C197J	1617	C203YY	1067	C210L	2030	C218J	2030	C226J	2030
C187OR	2016	C192L	1617	C197K	1617	C204(2S)	1617	C210M	2030	C218L	2030	C226K	2030

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C226L	2030	C237H	1617	C242G	2041	C263C	2016	C271R	2016	C284Y	1617	C301GN	1617
C226M	2030	C237J	1617	C242GN	2041	C263D	2016	C271X	2016	C286	2016	C301H	1617
C226OR	2030	C237K	1617	C242H	2041	C263E	2016	C271Y	2016	C286A(TRANS)	2016	C301J	1617
C226R	2030	C237L	1617	C242J	2041	C263F	2016	C272(2S)	2016	C286B	2016	C301K	1617
C226X	2030	C237M	1617	C242K	2041	C263G	2016	C272A	2016	C286B(TRANS)	2016	C301L	1617
C226Y	2030	C237OR	1617	C242L	2041	C263GN	2016	C272B	2016	C286C(TRANS)	2016	C301M	1617
C227(2S)	2030	C237R	1617	C242M	2041	C263H	2016	C272C	2016	C286D(TRANS)	2016	C301OR	1617
C227A	2030	C237X	1617	C242OR	2041	C263J	2016	C272D	2016	C286E	2016	C301R	1617
C227B	2030	C237Y	1617	C242R	2041	C263K	2016	C272E	2016	C286E(TRANS)	2016	C301X	1617
C227C	2030	C238(2S)	1617	C242X	2041	C263L	2016	C272F	2016	C286F	2016	C301Y	1617
C227D	2030	C238A	1617	C242Y	2041	C263M	2016	C272G	2016	C286G	2016	C302(2S)	1617
C227E	2030	C238B	1617	C243(2S)	2041	C263OR	2016	C272GN	2016	C286GN	2016	C302A	1617
C227F	2030	C238C	1617	C247(2S)	2030	C263R	2016	C272H	2016	C286H	2016	C302B	1617
C227G	2030	C238D	1617	C247A	2030	C263X	2016	C272J	2016	C286J	2016	C302C	1617
C227GN	2030	C238E	1617	C247B	2030	C263Y	2016	C272K	2016	C286K	2016	C302D	1617
C227H	2030	C238F	1617	C247C	2030	C264	2009	C272L	2016	C286L	2016	C302E	1617
C227J	2030	C238G	1617	C247D	2030	C265	2009	C272M	2016	C286M(TRANS)	2016	C302F	1617
C227K	2030	C238GN	1617	C247E	2030	C267(2S)	1617	C272OR	2016	C286OR	2016	C302G	1617
C227L	2030	C238H	1617	C247F	2030	C267A(2S)	1617	C272R	2016	C286R	2016	C302GN	1617
C227M	2030	C238J	1617	C247G	2030	C267B	1617	C272X	2016	C286X	2016	C302H	1617
C227OR	2030	C238K	1617	C247GN	2030	C267C	1617	C272Y	2016	C286Y	2016	C302J	1617
C227R	2030	C238L	1617	C247H	2030	C267D	1617	C280	2016	C289(2S)	2016	C302K	1617
C227X	2030	C238M	1617	C247J	2030	C267E	1617	C280AO	2009	C289A	2016	C302L	1617
C227Y	2030	C238OR	1617	C247L	2030	C267F	1617	C281(2S)	2009	C289B	2016	C302M	1617
C228(2S)	2030	C238R	1617	C247M	2030	C267G	1617	C281-OR	2009	C289C	2016	C302OR	1617
C228A(TRANS)	2030	C238X	1617	C247OR	2030	C267GN	1617	C281A(2S)	2009	C289D	2016	C302R	1617
C228B(TRANS)	2030	C238Y	1617	C247R	2030	C267H	1617	C281B(2S)	2009	C289E	2016	C302X	1617
C228C(TRANS)	2030	C239(2S)	1617	C247X	2030	C267J	1617	C281BL	2009	C289F	2016	C302Y	1617
C228D(TRANS)	2030	C239A	1617	C247Y	2030	C267K	1617	C281C(2S)	2009	C289G	2016	C306(2S)	2030
C228E(TRANS)	2030	C239B	1617	C248(2S)	1617	C267L	1617	C281C-EP(2S)	2009	C289GN	2016	C306A	2030
C228F(TRANS)	2030	C239C	1617	C248A	1617	C267M	1617	C281D(2S)	2009	C289H	2016	C306B	2030
C228G	2030	C239D	1617	C248B	1617	C267OR	1617	C281E	2009	C289J	2016	C306C	2030
C228GN	2030	C239E	1617	C248C	1617	C267R	1617	C281EP(2S)	2009	C289K	2016	C306D	2030
C228H	2030	C239F	1617	C248D	1617	C267X	1617	C281F	2009	C289L	2016	C306E	2030
C228J	2030	C239G	1617	C248E	1617	C267Y	1617	C281G	2009	C289M	2016	C306F	2030
C228K	2030	C239GN	1617	C248F	1617	C268(2S)	2030	C281GN	2009	C289OR	2016	C306G	2030
C228L	2030	C239H	1617	C248G	1617	C268-OR	2030	C281H(2S)	2009	C289R	2016	C306GN	2030
C228M(TRANS)	2030	C239J	1617	C248J	1617	C268A(2S)	2030	C281HB	1617	C289X	2016	C306H	2030
C228OR	2030	C239K	1617	C248K	1617	C268B	2030	C281J	2009	C289Y	2016	C306J	2030
C228R	2030	C239L	1617	C248L	1617	C268C	2030	C281K	2009	C291	2030	C306K	2030
C228X	2030	C239M	1617	C248M	1617	C268D	2030	C281L	2009	C291A(TRANS)	2030	C306L	2030
C228Y	2030	C239OR	1617	C248OR	1617	C268E	2030	C281M	2009	C291B(TRANS)	2030	C306M	2030
C234(2S)	2030	C239R	1617	C248R	1617	C268F	2030	C281OR	2009	C291C(TRANS)	2030	C306OR	2030
C234A(TRANS)	2030	C239X	1617	C248X	1617	C268G	2030	C281R	2009	C291D	2030	C306R	2030
C234B(TRANS)	2030	C239Y	1617	C248Y	1617	C268GN	2030	C281X	2009	C291D(TRANS)	2030	C306X	2030
C234C(TRANS)	2030	C240(2S)	2041	C249(2S)	2030	C268H	2030	C281Y	2009	C291E(TRANS)	2030	C306Y	2030
C234D(TRANS)	2030	C240A	2041	C249A	2030	C268J	2030	C282(2S)	1617	C291F(TRANS)	2030	C307(2S)	2030
C234E(TRANS)	2030	C240B	2041	C249B	2030	C268K	2030	C282A	1617	C291G(TRANS)	2030	C307-OR	2030
C234F(TRANS)	2030	C240C	2041	C249C	2030	C268L	2030	C282A(TRANS)	1617	C291GN	2030	C307A	2030
C234G	2030	C240D	2041	C249D	2030	C268M	2030	C282B	1617	C291H(TRANS)	2030	C307B	2030
C234GN	2030	C240E	2041	C249E	2030	C268OR	2030	C282B(TRANS)	1617	C291J(TRANS)	2030	C307C	2030
C234H	2030	C240F	2041	C249F	2030	C268R	2030	C282C	1617	C291K	2030	C307D	2030
C234J	2030	C240G	2041	C249G	2030	C268X	2030	C282C(TRANS)	1617	C291M(TRANS)	2030	C307E	2030
C234K	2030	C240GN	2041	C249GN	2030	C268Y	2030	C282D(TRANS)	1617	C291OR	2030	C307F	2030
C234L	2030	C240H	2041	C249H	2030	C269(2S)	2016	C282E(TRANS)	1617	C291R	2030	C307G	2030
C234M(TRANS)	2030	C240J	2041	C249J	2030	C269A	2016	C282F	1617	C291X	2030	C307GN	2030
C234OR	2030	C240K	2041	C249K	2030	C269B	2016	C282G	1617	C291Y	2030	C307H	2030
C234R	2030	C240L	2041	C249L	2030	C269C	2016	C282GN	1617	C295	2009	C307J	2030
C234X	2030	C240M	2041	C249M	2030	C269D	2016	C282H(2S)	1617	C296(2S)	2020	C307K	2030
C234Y	2030	C240OR	2041	C249OR	2030	C269E	2016	C282J	1617	C297	2017	C307L	2030
C236(2S)	2030	C240R	2041	C249R	2030	C269F	2016	C282K	1617	C300(2S)	1617	C307M	2030
C236A	2030	C240X	2041	C249X	2030	C269G	2016	C282L	1617	C300A	1617	C307OR	2030
C236B	2030	C240Y	2041	C249Y	2030	C269GN	2016	C282M(TRANS)	1617	C300B	1617	C307R	2030
C236C	2030	C241(2S)	2041	C250(2S)	1617	C269H	2016	C282OR	1617	C300C	1617	C307X	2030
C236D	2030	C241A	2041	C250A	1617	C269J	2016	C282R	1617	C300D	1617	C307Y	2030
C236E	2030	C241B	2041	C250B	1617	C269K	2016	C282X	1617	C300E	1617	C308	2030
C236F	2030	C241C	2041	C250C	1617	C269L	2016	C282Y	1617	C300F	1617	C308A	2030
C236G	2030	C241D	2041	C250D	1617	C269M	2016	C283A	1617	C300G	1617	C308B	2030
C236GN	2030	C241E	2041	C250E	1617	C269OR	2016	C283B	1617	C300GN	1617	C308C	2030
C236H	2030	C241F	2041	C250F	1617	C269R	2016	C283C	1617	C300H	1617	C308D	2030
C236J	2030	C241G	2041	C250G	1617	C269X	2016	C284(2S)	1617	C300J	1617	C308E	2030
C236K	2030	C241GN	2041	C250GN	1617	C269Y	2016	C284A	1617	C300K	1617	C308F	2030
C236L	2030	C241H	2041	C250H	1617	C271(2S)	2016	C284B	1617	C300L	1617	C308G	2030
C236M	2030	C241K	2041	C250J	1617	C271A	2016	C284C	1617	C300M	1617	C308GN	2030
C236OR	2030	C241L	2041	C250K	1617	C271B	2016	C284D	1617	C300OR	1617	C308H	2030
C236R	2030	C241M	2041	C250L	1617	C271C	2016	C284E	1617	C300R	1617	C308J	2030
C236X	2030	C241OR	2041	C250M	1617	C271D	2016	C284F	1617	C300X	1617	C308K	2030
C236Y	2030	C241R	2041	C250OR	1617	C271E	2016	C284G	1617	C300Y	1617	C308L	2030
C237(2S)	1617	C241X	2041	C250R	1617	C271F	2016	C284GN	1617	C301	1617	C308M	2030
C237A	1617	C241Y	2041	C250X	1617	C271G	2016	C284H(2S)	1617	C301(2S)	1617	C308OR	2030
C237B	1617	C242(2S)	2041	C250Y	1617	C271GN	2016	C284J	1617	C301A(2S)	1617	C308R	2030
C237C	1617	C242A	2041	C254(2S)	2030	C271H	2016	C284K	1617	C301B	1617	C308X	2030
C237D	1617	C242B	2041	C255	2030	C271J	2016	C284L	1617	C301C	1617	C308Y	2030
C237E	1617	C242C	2041	C256	2030	C271K	2016	C284M	1617	C301D	1617	C309(2S)	2030
C237F	1617	C242D	2041	C263(2S)	2016	C271L	2016	C284OR	1617	C301E	1617	C309A	2030
C237G	1617	C242E	2041	C263A	2016	C271M	2016	C284R	1617	C301F	1617	C309B	2030
C237GN	1617	C242F	2041	C263B	2016	C271OR	2016	C284X	1617	C301G	1617	C309C	2030

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C309D	2030	C317(2S)	1617	C324HA(2S)	1617	C352C	2009	C361X	2009	C368B	2016	C371K	2009
C309E	2030	C317A	1617	C324J	1617	C352D	2009	C361Y	2009	C368C	2016	C371L	2009
C309F	2030	C317B	1617	C324K	1617	C352E	2009	C362(2S)	2009	C368D	2016	C371M	2009
C309G	2030	C317C(2S)	1617	C324L	1617	C352F	2009	C362A	2009	C368E	2016	C371O	2009
C309GN	2030	C317D	1617	C324M	1617	C352G	2009	C362B	2009	C368F	2016	C371OR	2009
C309H	2030	C317E	1617	C324OR	1617	C352GN	2009	C362C	2009	C368G	2016	C371R(2S)	2009
C309J	2030	C317F	1617	C324R	1617	C352H	2009	C362D	2009	C368GN	2016	C371R-1	2009
C309K	2030	C317G	1617	C324X	1617	C352J	2009	C362E	2009	C368H	2016	C371RED-G	2009
C309L	2030	C317GN	1617	C324Y	1617	C352K	2009	C362F	2009	C368J	2016	C371T	2009
C309M	2030	C317H	1617	C327(EUROPE)	2023	C352L	2009	C362G	2009	C368K	2016	C371X	2009
C309OR	2030	C317J	1617	C328(EUROPE)	2023	C352M	2009	C362GN	2009	C368L	2016	C371Y	2009
C309R	2030	C317K	1617	C332	2009	C352OR	2009	C362H	2009	C368M	2016	C372	2009
C309X	2030	C317L	1617	C333	1617	C352R	2009	C362J	2009	C368OR	2016	C372(H)	2009
C309Y	2030	C317M	1617	C334	1617	C352X	2009	C362K	2009	C368R	2016	C372-0(2S)	2009
C310(2S)	2030	C317OR	1617	C335(2S)	2009	C352Y	2009	C362L	2009	C368V(2S)	2016	C372-1(2S)	2009
C310A	2030	C317R	1617	C336	1617	C353(2S)	2030	C362M	2009	C368X	2016	C372-2(2S)	2009
C310B	2030	C317X	1617	C337	1617	C353A(2S)	2030	C362OR	2009	C368Y	2016	C372-O(2S)	2009
C310C	2030	C317Y	1617	C338	1617	C353AC	2030	C362R	2009	C369(2S)	2016	C372-OR	2009
C310D	2030	C318	1617	C338(EUROPE)	2009	C353B	2030	C362X	2009	C369-BL	2016	C372-ORG	2009
C310E	2030	C318A(2S)	1617	C339	2009	C353C	2030	C362Y	2009	C369-GR	2016	C372-Y(2S)	2009
C310F	2030	C318AB	1617	C342	2009	C353D	2030	C363(2S)	1617	C369-V	2016	C372A	2009
C310G	2030	C318B	1617	C343	1617	C353E	2030	C363-OR	1617	C369A	2016	C372AR	2009
C310GN	2030	C318C	1617	C344	2016	C353F	2030	C363A	1617	C369B	2016	C372B	2009
C310H	2030	C318D	1617	C344Y	2016	C353G	2030	C363B	1617	C369BL(2S)	2016	C372C	2009
C310J	2030	C318E	1617	C346	1617	C353GN	2030	C363C	1617	C369C	2016	C372D	2009
C310K	2030	C318F	1617	C347	1617	C353H	2030	C363D	1617	C369D	2016	C372E	2009
C310L	2030	C318G	1617	C348(2S)	1617	C353J	2030	C363E	1617	C369E	2016	C372F	2009
C310M	2030	C318GN	1617	C348A	1617	C353K	2030	C363F	1617	C369F	2016	C372G	2009
C310OR	2030	C318H	1617	C348B	1617	C353L	2030	C363G	1617	C369G(2S)	2016	C372GN	2009
C310R	2030	C318J	1617	C348C	1617	C353M	2030	C363GN	1617	C369G-BL(2S)	2016	C372G-O	2009
C310X	2030	C318K	1617	C348D	1617	C353OR	2030	C363H	1617	C369GBL(2S)	2016	C372G-Y	2009
C310Y	2030	C318L	1617	C348E	1617	C353R	2030	C363J	1617	C369G-GR(2S)	2016	C372J	2009
C313	2016	C318M	1617	C348F	1617	C353X	2030	C363K	1617	C369GGR(2S)	2016	C372K	2009
C313-OR	2016	C318OR	1617	C348G	1617	C353Y	2030	C363L	1617	C369GN	2016	C372L	2009
C313A	2016	C318R	1617	C348GN	1617	C356(2S)	2009	C363M	1617	C369GR(2S)	2016	C372M	2009
C313B	2016	C318X	1617	C348H	1617	C356A	2009	C363OR	1617	C369G-V(2S)	2016	C372O	2009
C313C(2S)	2016	C318Y	1617	C348J	1617	C356B	2009	C363R	1617	C369H	2016	C372OR	2009
C313D	2016	C321	1617	C348K	1617	C356C	2009	C363X	1617	C369J	2016	C372R	2009
C313E	2016	C321A	1617	C348L	1617	C356D	2009	C363Y	1617	C369K	2016	C372X	2009
C313F	2016	C321B	1617	C348M	1617	C356E	2009	C366(2S)	2009	C369L	2016	C372Y(2S)	2009
C313G	2016	C321C	1617	C348OR	1617	C356F	2009	C366-0	2009	C369M	2016	C372Y1	2009
C313GN	2016	C321D	1617	C348X	1617	C356G	2009	C366A	2009	C369OR	2016	C372YEL	2009
C313H(2S)	2016	C321E	1617	C348Y	1617	C356GN	2009	C366B	2009	C369R	2016	C372YEL-G	2009
C313J	2016	C321F	1617	C349	2016	C356H	2009	C366C	2009	C369V(2S)	2016	C372Z	2009
C313K	2016	C321G	1617	C349R	2016	C356J	2009	C366D	2009	C369X	2016	C373(2S)	2009
C313L	2016	C321GN	1617	C350	1617	C356K	2009	C366E	2009	C369Y	2016	C373-0	2009
C313M	2016	C321H(2S)	1617	C350A(TRANS)	1617	C356L	2009	C366F	2009	C370(2S)	2009	C373-14	2009
C313OR	2016	C321HA(2S)	1617	C350B(TRANS)	1617	C356M	2009	C366G	2009	C370-0	2009	C373-G	2009
C313R	2016	C321HB(2S)	1617	C350C(TRANS)	1617	C356OR	2009	C366GN	2009	C370-G	2009	C373-O	2009
C313X	2016	C321HC(2S)	1617	C350D(TRANS)	1617	C356R	2009	C366G-O	2009	C370-O	2009	C373-OR	2009
C313Y	2016	C321J	1617	C350E(TRANS)	1617	C356X	2009	C366G-R	2009	C370-T	2009	C373A	2009
C315(2S)	1617	C321K	1617	C350F	1617	C356Y	2009	C366G-Y	2009	C370A	2009	C373AL	2009
C315A	1617	C321L	1617	C350G	1617	C360(2S)	1617	C366H	2009	C370B	2009	C373B	2009
C315B	1617	C321M	1617	C350GN	1617	C360-OR	1617	C366J	2009	C370C	2009	C373C	2009
C315C	1617	C321OR	1617	C350H(2S)	1617	C360A	1617	C366K	2009	C370D	2009	C373D	2009
C315D	1617	C321R	1617	C350J	1617	C360B	1617	C366L	2009	C370E	2009	C373E	2009
C315E	1617	C321X	1617	C350K	1617	C360C	1617	C366M	2009	C370F(2S)	2009	C373F	2009
C315F	1617	C321Y	1617	C350L	1617	C360D(2S)	1617	C366OR	2009	C370G(2S)	2009	C373G	2009
C315G	1617	C322	2009	C350M(TRANS)	1617	C360E	1617	C366X	2009	C370GN	2009	C373GN	2009
C315GN	1617	C323(2S)	1617	C350OR	1617	C360F	1617	C367	2009	C370H(2S)	2009	C373GR(2S)	2009
C315H	1617	C323A	1617	C350R	1617	C360G	1617	C367-O	2009	C370I	2009	C373H	2009
C315J	1617	C323B	1617	C350X	1617	C360GN	1617	C367-R	2009	C370J(2S)	2009	C373J	2009
C315K	1617	C323C	1617	C350Y	1617	C360H	1617	C367-Y	2009	C370K(2S)	2009	C373K	2009
C315L	1617	C323D	1617	C351(2S)	2016	C360J	1617	C367A	2009	C370L	2009	C373L	2009
C315M	1617	C323E	1617	C351A	2016	C360K	1617	C367B	2009	C370M	2009	C373M	2009
C315OR	1617	C323F	1617	C351B	2016	C360L	1617	C367C	2009	C370OR	2009	C373OR	2009
C315R	1617	C323G	1617	C351C	2016	C360M	1617	C367D	2009	C370R	2009	C373R	2009
C315X	1617	C323GN	1617	C351D	2016	C360OR	1617	C367E	2009	C370X	2009	C373W(2S)	2009
C315Y	1617	C323H	1617	C351E	2016	C360R	1617	C367F	2009	C370Y	2009	C373X	2009
C316(2S)	1617	C323J	1617	C351F	2016	C360X	1617	C367G	2009	C371(2S)	2009	C373Y	2009
C316A	1617	C323K	1617	C351FA1	2016	C360Y	1617	C367GN	2009	C371-0(2S)	2009	C374(2S)	2016
C316B	1617	C323L	1617	C351G	2016	C361(2S)	2009	C367G-O	2009	C371-O(2S)	2009	C374-BL(2S)	2016
C316C	1617	C323M	1617	C351GN	2016	C361A	2009	C367G-R	2009	C371-OR	2009	C374-OR	2016
C316D	1617	C323OR	1617	C351H	2016	C361B	2009	C367G-Y	2009	C371-R(2S)	2009	C374-V(2S)	2016
C316E	1617	C323R	1617	C351J	2016	C361C	2009	C367H	2009	C371-T	2009	C374A	2016
C316F	1617	C323X	1617	C351K	2016	C361D	2009	C367J	2009	C371A	2009	C374B	2016
C316G	1617	C323Y	1617	C351L	2016	C361E	2009	C367K	2009	C371B(2S)	2009	C374BL	2016
C316GN	1617	C324(2S)	1617	C351M	2016	C361F	2009	C367L	2009	C371C	2009	C374BLK	2016
C316H	1617	C324A(2S)	1617	C351OR	2016	C361G	2009	C367M	2009	C371D	2009	C374C	2016
C316J	1617	C324B	1617	C351R	2016	C361GN	2009	C367OR	2009	C371E	2009	C374D	2016
C316K	1617	C324C	1617	C351X	2016	C361H	2009	C367R	2009	C371F	2009	C374E	2016
C316L	1617	C324D	1617	C351Y	2016	C361J	2009	C367X	2009	C371G(2S)	2009	C374F	2016
C316M	1617	C324E	1617	C352	2009	C361K	2009	C367Y	2009	C371GN	2009	C374G	2016
C316OR	1617	C324F	1617	C352-OR	2009	C361L	2009	C368(2S)	2016	C371G-O	2009	C374GN	2016
C316R	1617	C324G	1617	C352A	2009	C361M	2009	C368-BL	2016	C371G-R	2009	C374H	2016
C316X	1617	C324GN	1617	C352AC	2009	C361OR	2009	C368-GR	2016	C371H	2009	C374J	2016
C316Y	1617	C324H(2S)	1617	C352B	2009	C361R	2009	C368A	2016	C371J	2009	C374K	2016

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C374L	2016	C378F	2009	C381-OR	2016	C384C(TRANS)	2016	C388E(TRANS)	2009	C394OR	2009	C400	1617
C374M	2016	C378G	2009	C381-ORG	2016	C384D(TRANS)	2016	C388F	2009	C394R(2S)	2009	C400(2S)	1617
C374OR	2016	C378GN	2009	C381-R(2S)	2016	C384E(TRANS)	2016	C388FA	2009	C394RED	2009	C400-0(2S)	1617
C374R	2016	C378H	2009	C381-RED	2016	C384F	2016	C388G	2009	C394W(2S)	2009	C400-GR(2S)	1617
C374V	2016	C378J	2009	C381A	2016	C384G	2016	C388GN	2009	C394X	2009	C400-O	1617
C374X	2016	C378K	2009	C381B	2016	C384GN	2016	C388H	2009	C394Y(2S)	2009	C400-R(2S)	1617
C374Y	2016	C378L	2009	C381BN(2S)	2016	C384H	2016	C388J	2009	C394YEL	2009	C400-Y(2S)	1617
C375(2S)	2016	C378M(TRANS)	2009	C381BN-1	2016	C384J	2016	C388K	2009	C395(2S)	1617	C400A	1617
C375-0(2S)	2016	C378O	2009	C381C	2016	C384K	2016	C388L	2009	C395A(TRANS)	1617	C400B	1617
C375-O(2S)	2016	C378OR	2009	C381D	2016	C384L	2016	C388M(TRANS)	2009	C395A-O	1617	C400C	1617
C375-Y(2S)	2016	C378R	2009	C381E	2016	C384M(TRANS)	2016	C388OR	2009	C395A-ORG	1617	C400D	1617
C375A	2016	C378X	2009	C381F	2016	C384OR	2016	C388R	2009	C395A-R	1617	C400E	1617
C375B	2016	C378Y	2009	C381G	2016	C384R	2016	C388TM	2009	C395A-RED	1617	C400F	1617
C375C	2016	C379(2S)	2009	C381GN	2016	C384X	2016	C388X	2009	C395A-Y	1617	C400G	1617
C375D	2016	C379A	2009	C381H	2016	C384Y(2S)	2016	C388Y	2009	C395A-YEL	1617	C400GN	1617
C375E	2016	C379B	2009	C381J	2016	C385	2016	C389(2S)	2016	C395B(TRANS)	1617	C400H	1617
C375F	2016	C379C	2009	C381K	2016	C385A(TRANS)	2016	C389-O	2016	C395C(TRANS)	1617	C400J	1617
C375G	2016	C379D	2009	C381L	2016	C385B(TRANS)	2016	C389-OR	2016	C395D(TRANS)	1617	C400K	1617
C375GN	2016	C379E	2009	C381M	2016	C385C(TRANS)	2016	C389A	2016	C395E(TRANS)	1617	C400L	1617
C375H	2016	C379F	2009	C381O	2016	C385D(TRANS)	2016	C389AFP	2016	C395F	1617	C400M	1617
C375J	2016	C379G	2009	C381OR	2016	C385E(TRANS)	2016	C389B	2016	C395G	1617	C400OR	1617
C375K	2016	C379GN	2009	C381R(2S)	2016	C385F	2016	C389BLS-O	2016	C395GN	1617	C400R	1617
C375L	2016	C379H	2009	C381RED	2016	C385G	2016	C389C	2016	C395H	1617	C400X	1617
C375M	2016	C379J	2009	C381RL	2016	C385GN	2016	C389D	2016	C395J	1617	C400Y	1617
C375OR	2016	C379K	2009	C381X	2016	C385H	2016	C389E	2016	C395K	1617	C401	2009
C375R	2016	C379L	2009	C381Y	2016	C385J	2016	C389F	2016	C395L	1617	C401(2S)	2009
C375X	2016	C379M	2009	C382(2S)	2009	C385K	2016	C389G	2016	C395M(TRANS)	1617	C401A	2009
C376(2S)	2009	C379OR	2009	C382-G	2009	C385L	2016	C389GN	2016	C395OR	1617	C401B	2009
C376A	2009	C379R	2009	C382-GR(2S)	2009	C385M(TRANS)	2016	C389H	2016	C395R(2S)	1617	C401C	2009
C376B	2009	C379X	2009	C382-GY	2009	C385OR	2016	C389J	2016	C395X	1617	C401D	2009
C376C	2009	C379Y	2009	C382-OR	2009	C385R	2016	C389K	2016	C395Y	1617	C401E	2009
C376D	2009	C380	2009	C382-R	2009	C385X	2016	C389L	2016	C397	2016	C401F	2009
C376E(TRANS)	2009	C380-0(2S)	2009	C382-Y	2009	C385Y	2016	C389LP	2016	C397A	2016	C401G	2009
C376F	2009	C380-BRN	2009	C382A	2009	C386	2016	C389M	2016	C397B	2016	C401GN	2009
C376G	2009	C380-O(2S)	2009	C382B	2009	C386-O	2016	C389O	2016	C397C	2016	C401H	2009
C376GN	2009	C380-OR	2009	C382BK(2S)	2009	C386A	2016	C389OR	2016	C397D	2016	C401J	2009
C376H	2009	C380-ORG	2009	C382BK1	2009	C386AO	2016	C389P	2016	C397E(TRANS)	2016	C401K	2009
C376J	2009	C380-R	2009	C382BK2	2009	C386B	2016	C389R(2S)	2016	C397F	2016	C401L	2009
C376K	2009	C380-RED	2009	C382BL(2S)	2009	C386C	2016	C389X	2016	C397G	2016	C401M	2009
C376L	2009	C380-Y	2009	C382BN(2S)	2009	C386D	2016	C389Y	2016	C397GN	2016	C401OR	2009
C376M(TRANS)	2009	C380-YEL	2009	C382BR(2S)	2009	C386E	2016	C391	2009	C397H	2016	C401R	2009
C376OR	2009	C380A(TRANS)	2009	C382C	2009	C386F	2016	C391A	2009	C397J	2016	C401X	2009
C376R	2009	C380A-0	2009	C382D	2009	C386G	2016	C391B	2009	C397K	2016	C401Y	2009
C376X	2009	C380AD	2009	C382E	2009	C386GN	2016	C391C	2009	C397L	2016	C402	2009
C376Y	2009	C380A-O	2009	C382F	2009	C386H	2016	C391D	2009	C397M(TRANS)	2016	C402(2S)	2009
C377(2S)	2009	C380AO(2S)	2009	C382G(2S)	2009	C386J	2016	C391E	2009	C397OR	2016	C402A(2S)	2009
C377-0	2009	C380AR	2009	C382GN	2009	C386K	2016	C391F	2009	C397R	2016	C402B	2009
C377-BN	2009	C380A-R(2S)	2009	C382GR	2009	C386L	2016	C391G	2009	C397X	2016	C402C	2009
C377-BRN	2009	C380ATV(2S)	2009	C382GY	2009	C386M	2016	C391GN	2009	C397Y	2016	C402D	2009
C377-O	2009	C380A-Y	2009	C382H	2009	C386OR	2016	C391H	2009	C398	2009	C402E	2009
C377-OR	2009	C380AY(2S)	2009	C382J	2009	C386R	2016	C391J	2009	C398A	2009	C402F	2009
C377-ORG	2009	C380B(TRANS)	2009	C382K	2009	C386X	2016	C391K	2009	C398B	2009	C402G	2009
C377-R	2009	C380B-Y	2009	C382L	2009	C386Y	2016	C391L	2009	C398C	2009	C402GN	2009
C377-RED	2009	C380BY	2009	C382M	2009	C387(2S)	2016	C391M	2009	C398D	2009	C402H	2009
C377A	2009	C380C(TRANS)	2009	C382OR	2009	C387-G	2016	C391OR	2009	C398E(TRANS)	2009	C402J	2009
C377B	2009	C380C-Y	2009	C382R(2S)	2009	C387-OR	2016	C391R	2009	C398F	2009	C402K	2009
C377BN	2009	C380CY	2009	C382V(2S)	2009	C387A(2S)	2016	C391X	2009	C398FA1	2009	C402L	2009
C377BRN	2009	C380D(TRANS)	2009	C382W	2009	C387AG	2016	C391Y	2009	C398G	2009	C402M	2009
C377C	2009	C380D-Y	2009	C382X	2009	C387B	2016	C393	2009	C398GN	2009	C402OR	2009
C377D	2009	C380DY	2009	C382Y	2009	C387C	2016	C394(2S)	2009	C398H	2009	C402R	2009
C377E(TRANS)	2009	C380E(TRANS)	2009	C383(2S)	2009	C387D	2016	C394-0(2S)	2009	C398J	2009	C402X	2009
C377F	2009	C380E-Y	2009	C383-OR	2009	C387E(TRANS)	2016	C394-GR	2009	C398K	2009	C402Y	2009
C377G	2009	C380EY	2009	C383A	2009	C387F	2016	C394-GRN	2009	C398L	2009	C403(2S)	2009
C377GN	2009	C380F	2009	C383B	2009	C387FA1	2016	C394-O(2S)	2009	C398M(TRANS)	2009	C403-OR	2009
C377H	2009	C380F-Y	2009	C383C	2009	C387G(2S)	2016	C394-OR	2009	C398OR	2009	C403A(2S)	2009
C377J	2009	C380FY	2009	C383D	2009	C387GN	2016	C394-ORG	2009	C398R	2009	C403AL	2009
C377K	2009	C380G	2009	C383E	2009	C387H	2016	C394-R	2009	C398X	2009	C403B	2009
C377L	2009	C380GN	2009	C383F	2009	C387J	2016	C394-RED	2009	C398Y	2009	C403C(2S)	2009
C377M(TRANS)	2009	C380H	2009	C383G(2S)	2009	C387K	2016	C394-Y	2009	C399(2S)	2009	C403CG	2009
C377O	2009	C380J	2009	C383GN	2009	C387L	2016	C394-YEL	2009	C399A	2009	C403D	2009
C377OR	2009	C380K	2009	C383H	2009	C387M(TRANS)	2016	C394A(TRANS)	2009	C399B	2009	C403E	2009
C377R	2009	C380L	2009	C383J	2009	C387OR	2016	C394AP	2009	C399C	2009	C403F	2009
C377RED	2009	C380M(TRANS)	2009	C383K	2009	C387R	2016	C394B(TRANS)	2009	C399D	2009	C403G	2009
C377X	2009	C380O	2009	C383L	2009	C387X	2016	C394C(TRANS)	2009	C399E	2009	C403GN	2009
C377Y	2009	C380OR	2009	C383M	2009	C387Y	2016	C394D(TRANS)	2009	C399F	2009	C403H	2009
C378(2S)	2009	C380R(2S)	2009	C383OR	2009	C388(2S)	2009	C394E(TRANS)	2009	C399FA1	2009	C403J	2009
C378-O	2009	C380RED	2009	C383R	2009	C388-O	2009	C394F	2009	C399G	2009	C403K	2009
C378-ORG	2009	C380T(TRANS)	2009	C383T(2S)	2009	C388-OR	2009	C394G	2009	C399GN	2009	C403L	2009
C378-R	2009	C380V	2009	C383TM	2009	C388A(2S)	2009	C394GN	2009	C399H	2009	C403M	2009
C378-RED	2009	C380X	2009	C383W(2S)	2009	C388A(JAPAN)	2009	C394GR(2S)	2009	C399J	2009	C403OR	2009
C378-Y	2009	C380Y(2S)	2009	C383X	2009	C388A(KOREA)	2009	C394GRN	2009	C399K	2009	C403R	2009
C378-YEL	2009	C380YEL	2009	C383Y(2S)	2009	C388A-TM	2009	C394H	2009	C399L	2009	C403X	2009
C378A	2009	C381(2S)	2016	C384(2S)	2016	C388ATM	2009	C394J	2009	C399M	2009	C403Y	2009
C378B	2009	C381-0(2S)	2016	C384(O)	2016	C388ATMFA	2009	C394K	2009	C399OR	2009	C404(2S)	2009
C378C	2009	C381-BN	2016	C384-O	2016	C388B	2009	C394L	2009	C399R	2009	C404A	2009
C378D	2009	C381-BRN	2016	C384A(TRANS)	2016	C388C	2009	C394M(TRANS)	2009	C399X	2009	C404B	2009
C378E(TRANS)	2009	C381-O(2S)	2016	C384B(TRANS)	2016	C388D	2009	C394O	2009	C399Y	2009	C404C	2009

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C404D	2009	C425OR	1617	C458A(2S)	2009	C461	2009	C478F	1617	C498-Y(2S)	2030	C503H	2030
C404E	2009	C425R	1617	C458AD(2S)	2009	C461-8F	2009	C478G	1617	C498-YEL	2030	C503J	2030
C404F	2009	C425X	1617	C458AK	2009	C461-A	2009	C478GN	1617	C498A	2030	C503K	2030
C404G	2009	C425Y	1617	C458B	2009	C461-B	2009	C478H	1617	C498B	2030	C503L	2030
C404GN	2009	C426	2030	C458BC(2S)	2009	C461A	2009	C478J	1617	C498C	2030	C503M	2030
C404H	2009	C426(2S)	2009	C458BD	2009	C461AL	2009	C478K	1617	C498D	2030	C503OR	2030
C404J	2009	C427	2009	C458BL(2S)	2009	C461B	2009	C478L	1617	C498E	2030	C503R	2030
C404K	2009	C428(2S)	2009	C458BM	2009	C461BF	2009	C478M(TRANS)	1617	C498F	2030	C503X	2030
C404L	2009	C433	2009	C458C	2009	C461BK	2009	C478OR	1617	C498G	2030	C504(2S)	2030
C404M	2009	C434	2020	C458C(JAPAN)	2009	C461BL	2009	C478R	1617	C498GN	2030	C504-GR	2030
C404OR	2009	C443(2S)	2030	C458CL	2009	C461C	2009	C478X	1617	C498H	2030	C504-O(2S)	2030
C404R	2009	C443A	2030	C458CLG(2S)	2009	C461E(2S)	2009	C478Y	1617	C498J	2030	C504-Y(2S)	2030
C404X	2009	C443B	2030	C458CM(2S)	2009	C461EP	2009	C479(2S)	2030	C498K	2030	C504A	2030
C404Y	2009	C443C	2030	C458D(2S)	2009	C461F	2009	C479A	2030	C498L	2030	C504B	2030
C405(2S)	1617	C443D	2030	C458E(TRANS)	2009	C461L(2S)	2009	C479B	2030	C498M	2030	C504C	2030
C405A	1617	C443E	2030	C458F	2009	C462	2009	C479C	2030	C498OR	2030	C504D	2030
C405B	1617	C443F	2030	C458G(2S)	2009	C463(2S)	2016	C479D	2030	C498R	2030	C504E	2030
C405C	1617	C443G	2030	C458GN	2009	C463A	2016	C479E	2030	C498RED	2030	C504F	2030
C405D	1617	C443GN	2030	C458H	2009	C463B	2016	C479F	2030	C498X	2030	C504G	2030
C405E	1617	C443H	2030	C458J	2009	C463C	2016	C479G	2030	C498Y	2030	C504GN	2030
C405F	1617	C443J	2030	C458K(2S)	2009	C463D	2016	C479GN	2030	C498YEL	2030	C504GR(2S)	2030
C405G	1617	C443K	2030	C458KB(2S)	2009	C463E	2016	C479H	2030	C499(2S)	2009	C504H	2030
C405GN	1617	C443L	2030	C458L(2S)	2009	C463F	2016	C479J	2030	C499-OR	2009	C504J	2030
C405H	1617	C443M	2030	C458L6	2009	C463G	2016	C479K	2030	C499-R	2009	C504K	2030
C405J	1617	C443OR	2030	C458LB(2S)	2009	C463GN	2016	C479L	2030	C499-RED	2009	C504L	2030
C405K	1617	C443R	2030	C458LC	2009	C463H(2S)	2016	C479M	2030	C499-RY(2S)	2009	C504M	2030
C405L	1617	C443X	2030	C458LD	2009	C463J	2016	C479OR	2030	C499-Y	2009	C504OR	2030
C405M	1617	C443Y	2030	C458LG	2009	C463K	2016	C479R	2030	C499-YEL	2009	C504R	2030
C405OR	1617	C444	1617	C458LGA(2S)	2009	C463L	2016	C479X	2030	C499A	2009	C504X	2030
C405R	1617	C450	1617	C458LGB	2009	C463M	2016	C479Y	2030	C499B	2009	C509	2009
C405X	1617	C454	2009	C458LGBM(2S)	2009	C463OR	2016	C492(2S)	2041	C499C	2009	C509(0)	2009
C405Y	1617	C454-3	2009	C458LGC	2009	C463R	2016	C494(2S)	2041	C499D	2009	C509-0	2009
C406(2S)	1617	C454-5	2009	C458LGC-6	2009	C463X	2016	C494-BL(2S)	2041	C499E	2009	C509-O	2009
C406A	1617	C454-C	2009	C458LGD	2009	C463Y	2016	C494-R(2S)	2041	C499F	2009	C509-Y	2009
C406B	1617	C454-OR	2009	C458LGO(2S)	2009	C467	2016	C494-Y(2S)	2041	C499FA1	2009	C509G(2S)	2009
C406C	1617	C454A(2S)	2009	C458LGR	2009	C468(2S)	1617	C494A	2041	C499G	2009	C509G-O	2009
C406D	1617	C454B	2009	C458LGS(2S)	2009	C468A(2S)	1617	C494B	2041	C499GN	2009	C509G-Y	2009
C406E	1617	C454B-6	2009	C458M(TRANS)	2009	C468B	1617	C494BL(2S)	2041	C499H	2009	C509O	2009
C406F	1617	C454BL	2009	C458OR	2009	C468H	1617	C494C	2041	C499J	2009	C509Y(2S)	2009
C406G	1617	C454C	2009	C458P	2009	C468LGR	1617	C494D	2041	C499K	2009	C511A	1067
C406GN	1617	C454C(JAPAN)	2009	C458R	2009	C472	2058	C494E	2041	C499L	2009	C511B	1067
C406H	1617	C454D(2S)	2009	C458RGS(2S)	2009	C472A	2058	C494F	2041	C499M	2009	C511C	1020
C406J	1617	C454E	2009	C458X	2009	C472B	2058	C494G	2041	C499OR	2009	C511F	1067
C406K	1617	C454F	2009	C458Y	2009	C472C	2058	C494GN	2041	C499R(2S)	2009	C511G	1067
C406L	1617	C454G	2009	C459(2S)	2009	C472D	2058	C494H	2041	C499RED	2009	C511H	1020
C406M	1617	C454GN	2009	C459A	2009	C472E	2058	C494J	2041	C499RY	2009	C511U	1067
C406OR	1617	C454H	2009	C459B(2S)	2009	C472F	2058	C494K	2041	C499X	2009	C516(2S)	2030
C406R	1617	C454J	2009	C459C	2009	C472G	2058	C494L	2041	C499Y(2S)	2009	C516A	2030
C406X	1617	C454K	2009	C459D(2S)	2009	C472GN	2058	C494M	2041	C499YEL	2009	C516B	2030
C406Y	1617	C454L(2S)	2009	C459E	2009	C472H	2058	C494OR	2041	C501	2030	C516C	2030
C420	2030	C454LA(2S)	2009	C459F	2009	C472J	2058	C494R	2041	C501-O	2030	C516D	2030
C423(2S)	1617	C454M	2009	C459G	2009	C472K	2058	C494X	2041	C501-ORG	2030	C516E	2030
C423-O	1617	C454OR	2009	C459GN	2009	C472L	2058	C494Y	2041	C501-R	2030	C516F	2030
C423A	1617	C454R	2009	C459H	2009	C472M	2058	C497(2S)	2030	C501-RED	2030	C516G	2030
C423B(2S)	1617	C454X	2009	C459J	2009	C472OR	2058	C497-0	2030	C501-Y	2030	C516GN	2030
C423C(2S)	1617	C454Y	2009	C459K	2009	C472R	2058	C497-O(2S)	2030	C501-YEL	2030	C516H	2030
C423D(2S)	1617	C455(2S)	2009	C459L	2009	C472X	2058	C497-OR	2030	C501A(TRANS)	2030	C516J	2030
C423E(2S)	1617	C455-OR	2009	C459M	2009	C472Y(2S)	2058	C497-ORG	2030	C501B(TRANS)	2030	C516K	2030
C423F(2S)	1617	C455A	2009	C459OR	2009	C473	1617	C497-R(2S)	2030	C501C(TRANS)	2030	C516L	2030
C423G	1617	C455B	2009	C459R	2009	C473AC	1617	C497-RED	2030	C501D(TRANS)	2030	C516M	2030
C423GN	1617	C455C	2009	C459X	2009	C474	2009	C497-Y(2S)	2030	C501E(TRANS)	2030	C516OR	2030
C423H	1617	C455D	2009	C459Y	2009	C477(2S)	2016	C497-YEL	2030	C501F	2030	C516R	2030
C423J	1617	C455E	2009	C460	2009	C477A	2016	C497A	2030	C501G	2030	C516X	2030
C423K	1617	C455F	2009	C460(JAPAN)	2009	C477B	2016	C497B	2030	C501GN	2030	C516Y	2030
C423L	1617	C455G	2009	C460-5	2009	C477C	2016	C497C	2030	C501H	2030	C527	2016
C423M	1617	C455GN	2009	C460-B	2009	C477D	2016	C497D	2030	C501J	2030	C528	2016
C423OR	1617	C455H	2009	C460-C	2009	C477E(TRANS)	2016	C497E	2030	C501K	2030	C529	2009
C423R	1617	C455J	2009	C460-OR	2009	C477F	2016	C497F	2030	C501L(2S)	2030	C529A	2009
C423X	1617	C455K	2009	C460A(2S)	2009	C477G	2016	C497G	2030	C501M(TRANS)	2030	C529B	2009
C423Y	1617	C455L	2009	C460B	2009	C477GN	2016	C497GN	2030	C501O	2030	C529C	2009
C424	1617	C455M	2009	C460BL	2009	C477H	2016	C497H	2030	C501OR	2030	C529D	2009
C424(2S)	1617	C455OR	2009	C460C	2009	C477J	2016	C497J	2030	C501R	2030	C529E	2009
C424D(2S)	1617	C455R	2009	C460D(2S)	2009	C477K	2016	C497K	2030	C501X	2030	C529F	2009
C425	2030	C455X	2009	C460E	2009	C477L	2016	C497L	2030	C501Y	2030	C529G	2009
C425(2S)	1617	C455Y	2009	C460F	2009	C477M(TRANS)	2016	C497M	2030	C503(2S)	2030	C529GN	2009
C425A	1617	C457	2009	C460G(2S)	2009	C477OR	2016	C497OR	2030	C503-GR	2030	C529H	2009
C425B(2S)	1617	C458	2009	C460GB(2S)	2009	C477R	2016	C497R	2030	C503-O(2S)	2030	C529J	2009
C425C(2S)	1617	C458(JAPAN)	2009	C460GN	2009	C477X	2016	C497RED	2030	C503-Y(2S)	2030	C529K	2009
C425D(2S)	1617	C458-4	2009	C460H(2S)	2009	C477Y	2016	C497X	2030	C503A	2030	C529L	2009
C425E(2S)	1617	C458-5	2009	C460J	2009	C478(2S)	1617	C497Y	2030	C503B	2030	C529M	2009
C425F(2S)	1617	C458-B	2009	C460K(2S)	2009	C478-4(2S)	1617	C498(2S)	2030	C503C	2030	C529OR	2009
C425G	1617	C458-C	2009	C460L(2S)	2009	C478-O	1617	C498-0	2030	C503D	2030	C529R	2009
C425GN	1617	C458-D	2009	C460M	2009	C478A	1617	C498-O(2S)	2030	C503E	2030	C529X	2009
C425H	1617	C458-GR	2009	C460OR	2009	C478B	1617	C498-OR	2030	C503F	2030	C529Y	2009
C425K	1617	C458-O	2009	C460R	2009	C478C	1617	C498-ORG	2030	C503G	2030	C530	2009
C425L	1617	C458-OR	2009	C460X	2009	C478D(2S)	1617	C498-R(2S)	2030	C503GN	2030	C531	2009
C425M	1617	C458-Y	2009	C460Y	2009	C478E(TRANS)	1617	C498-RED	2030	C503GR(2S)	2030	C532	2009

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C5320	2009	C536NPG	2009	C544E(2S)	2016	C562J	2016	C587A(2S)	1617	C596K	1617	C620DE(2S)	2009
C533	2009	C536OR	2009	C544F	2016	C562K	2016	C587B	1617	C596L	1617	C620E(2S)	2009
C534	2009	C536R	2009	C544G	2016	C562L	2016	C587C	1617	C596M	1617	C620F	2009
C535	2016	C536SP	2009	C544GN	2016	C562M	2016	C587D	1617	C596OR	1617	C620G	2009
C535-OR	2016	C536W(2S)	2009	C544H	2016	C562O	2016	C587E	1617	C596R	1617	C620GN	2009
C535A	2016	C536X	2009	C544J	2016	C562OR	2016	C587F	1617	C596X	1617	C620H	2009
C535ABC	2016	C536XL	2009	C544K	2016	C562R	2016	C587G	1617	C596Y	1617	C620J	2009
C535AL	2016	C536Y	2009	C544L	2016	C562X	2016	C587GN	1617	C598	2017	C620K	2009
C535B	2016	C536YF	2009	C544M	2016	C562Y(2S)	2016	C587H	1617	C599	2020	C620L	2009
C535B(JAPAN)	2016	C537	2009	C544OR	2016	C563	2016	C587J	1617	C600	2020	C620M	2009
C535C	2016	C537-C7	2009	C544R	2016	C563-F	2016	C587K	1617	C602	2016	C620OR	2009
C535D	2016	C537-EV	2009	C544X	2016	C563-G	2016	C587L	1617	C604	2016	C620R	2009
C535E	2016	C537A	2016	C544Y	2016	C563-OR	2016	C587M	1617	C607	2030	C620X	2009
C535F	2016	C537ALC	2009	C545(2S)	2016	C563A(2S)	2016	C587OR	1617	C610	2023	C620Y	2009
C535G(2S)	2016	C537B	2009	C545A(2S)	2016	C563B	2016	C587R	1617	C610(2S)	2030	C621	2009
C535GN	2016	C537BK	2009	C545B(2S)	2016	C563C	2016	C587X	1617	C610A	2030	C621(2S)	2009
C535H	2016	C537C	2009	C545C(2S)	2016	C563D	2016	C587Y	1617	C610B	2030	C621A	2009
C535J	2016	C537C7	2009	C545D(2S)	2016	C563E	2016	C588(2S)	1617	C610C	2030	C621B	2009
C535K	2016	C537D(2S)	2009	C545E(2S)	2016	C563F	2016	C588A	1617	C610D	2030	C621C	2009
C535L	2016	C537D1	2009	C546	2016	C563G	2016	C588B	1617	C610E	2030	C621D	2009
C535M	2016	C537D2(2S)	2009	C546K	2016	C563GN	2016	C588C	1617	C610F	2030	C621E	2009
C535OR	2016	C537E(2S)	2009	C547C(EUROPE)	2009	C563H	2016	C588D	1617	C610G	2030	C621F	2009
C535R	2016	C537EF	2009	C548	2017	C563J	2016	C588E	1617	C610GN	2030	C621G	2009
C535X	2016	C537EH(2S)	2009	C548(EUROPE)	2009	C563K	2016	C588F	1617	C610H	2030	C621GN	2009
C535Y	2016	C537EJ(2S)	2009	C548A(EUROPE)	2016	C563L	2016	C588G	1617	C610J	2030	C621H	2009
C536	2009	C537EV	2009	C548C(EUROPE)	2009	C563M	2016	C588GN	1617	C610K	2030	C621J	2009
C536(JAPAN)	2009	C537F	2009	C549C(EUROPE)	2016	C563OR	2016	C588H	1617	C610L	2030	C621K	2009
C536-D	2009	C537F1(2S)	2009	C550	2017	C563R	2016	C588J	1617	C610M	2030	C621L	2009
C536-E	2009	C537F2(2S)	2009	C550A	2017	C563X	2016	C588K	1617	C610OR	2030	C621M	2009
C536-F	2009	C537FC(2S)	2009	C551	2020	C563Y	2016	C588L	1617	C610R	2030	C621OR	2009
C536-G	2009	C537F-C7	2009	C552	2020	C564(2S)	1617	C588M	1617	C610X	2030	C621R	2009
C536-OR	2009	C537FC7	2009	C553	2020	C564A(2S)	1617	C588OR	1617	C610Y	2030	C621X	2009
C536A(2S)	2009	C537FJ	2009	C554	2020	C564AP	1617	C588R	1617	C611A	1067	C621Y	2009
C536AF	2009	C537FK	2009	C556	2058	C564B	1617	C588X	1617	C611B	1067	C622	1617
C536AG(2S)	2009	C537FV(2S)	2009	C557(EUROPE)	2023	C564C	1617	C588Y	1617	C611F	1067	C622(2S)	1617
C536B(2S)	2009	C537G(2S)	2009	C558(EUROPE)	2023	C564D	1617	C590Y(2S)	2009	C611G	1067	C622A	1617
C536C(2S)	2009	C537G1(2S)	2009	C558B(EUROPE)	2023	C564E	1617	C592	2017	C611U	1067	C622B	1617
C536D(2S)	2009	C537G2	2009	C559B(EUROPE)	2023	C564F	1617	C593(2S)	1617	C612B	2016	C622C	1617
C536DK(2S)	2009	C537GFL	2009	C560(2S)	2030	C564G	1617	C594(2S)	1617	C613	2016	C622D	1617
C536E	2009	C537GI(2S)	2009	C560A	2030	C564GN	1617	C594-O	1617	C613(2S)	2016	C622E	1617
C536E(JAPAN)	2009	C537H(2S)	2009	C560B	2030	C564H	1617	C594-R	1617	C613A	2016	C622F	1617
C536ED(2S)	2009	C537HT(2S)	2009	C560C	2030	C564J	1617	C594-Y	1617	C613B	2016	C622G	1617
C536EH(2S)	2009	C537WF	2009	C560D	2030	C564K	1617	C594A	1617	C613C	2016	C622GN	1617
C536EJ(2S)	2009	C538	1617	C560E	2030	C564L	1617	C594B	1617	C613D	2016	C622H	1617
C536EN(2S)	2009	C538-Q	1617	C560F	2030	C564M	1617	C594C	1617	C613E	2016	C622J	1617
C536EP	2009	C538A(2S)	1617	C560G	2030	C564OR	1617	C594D	1617	C613F	2016	C622K	1617
C536ER(2S)	2009	C538A-P	1617	C560GN	2030	C564P(2S)	1617	C594E	1617	C613G	2016	C622L	1617
C536ET(2S)	2009	C538AQ(2S)	1617	C560H	2030	C564PL	1617	C594F	1617	C613GN	2016	C622M	1617
C536EZ(2S)	2009	C538A-R	1617	C560J	2030	C564Q(2S)	1617	C594G	1617	C613H	2016	C622OR	1617
C536F	2009	C538AR	1617	C560K	2030	C564QC	1617	C594GN	1617	C613J	2016	C622R	1617
C536F(JAPAN)	2009	C538AS	1617	C560L	2030	C564R(2S)	1617	C594H	1617	C613K	2016	C622X	1617
C536F1(2S)	2009	C538K	1617	C560M	2030	C564S(2S)	1617	C594J	1617	C613L(TRANS)	2016	C622Y	1617
C536F2(2S)	2009	C538P(2S)	1617	C560OR	2030	C564T(2S)	1617	C594K	1617	C613M	2016	C623(2S)	1617
C536FC	2009	C538Q(2S)	1617	C560R	2030	C564X	1617	C594L	1617	C613OR	2016	C624(2S)	1617
C536FC(2S)	2009	C538R	1617	C560X	2030	C564Y	1617	C594M	1617	C613R	2016	C626	1617
C536FP(2S)	2009	C538S(2S)	1617	C560Y	2030	C565	1617	C594OR	1617	C613X	2016	C629(2S)	2058
C536F5(2S)	2009	C538T(2S)	1617	C561(2S)	2016	C569	1617	C594R	1617	C613Y	2016	C629-31	2058
C536F56(2S)	2009	C539(2S)	1617	C561-OR	2016	C570	1617	C594X	1617	C618	2016	C629-41	2058
C536FZ(2S)	2009	C539R(2S)	1617	C561A	2016	C575	2030	C594Y	1617	C618A	2016	C629A	2058
C536G(2S)	2009	C539S(2S)	1617	C561B	2016	C576	1617	C595(2S)	1617	C619(2S)	2009	C629B	2058
C536G(JAPAN)	2009	C539T	1617	C561C	2016	C576E	2009	C595A	1617	C619A	2009	C629C	2058
C536G-1	2009	C541	2017	C561D	2016	C576F	2009	C595B	1617	C619B(2S)	2009	C629D	2058
C536G1	2009	C542	2017	C561E	2016	C576G	2009	C595C	1617	C619C(2S)	2009	C629E	2058
C536G2	2009	C543	2020	C561F	2016	C577	1617	C595D	1617	C619D(2S)	2009	C629F	2058
C536GF(2S)	2009	C543A	2020	C561G	2016	C580(2S)	2030	C595E	1617	C619E	2009	C629G	2058
C536GJ	2009	C543B	2020	C561GN	2016	C580A	2030	C595F	1617	C619F	2009	C629GN	2058
C536GK(2S)	2009	C543C	2020	C561H	2016	C580B	2030	C595G	1617	C619G	2009	C629H	2058
C536GL	2009	C543D	2020	C561J	2016	C580C	2030	C595GN	1617	C619GN	2009	C629J	2058
C536GM	2009	C543E	2020	C561K	2016	C580D	2030	C595H	1617	C619H	2009	C629K	2058
C536GN	2009	C543F	2020	C561L	2016	C580E	2030	C595J	1617	C619J	2009	C629L	2058
C536GP	2009	C543G	2020	C561M	2016	C580F	2030	C595K	1617	C619K	2009	C629M	2058
C536GT(2S)	2009	C543GN	2020	C561OR	2016	C580G	2030	C595L	1617	C619L	2009	C629OR	2058
C536GV(2S)	2009	C543H	2020	C561R	2016	C580GN	2030	C595M	1617	C619M	2009	C629R	2058
C536GY(2S)	2009	C543J	2020	C561X	2016	C580H	2030	C595OR	1617	C619OR	2009	C629X	2058
C536GZ	2009	C543K	2020	C561Y	2016	C580J	2030	C595X	1617	C619R	2009	C629Y	2058
C536H(2S)	2009	C543L	2020	C562(2S)	2016	C580K	2030	C595Y	1617	C619X	2009	C631	2009
C536J	2009	C543M	2020	C562(O)	2016	C580L	2030	C596(2S)	1617	C619Y	2009	C631(2S)	2009
C536K	2009	C543OR	2020	C562-OR	2016	C580M	2030	C596A	1617	C620	2009	C631A(2S)	2009
C536K(JAPAN)	2009	C543R	2020	C562A	2016	C580OR	2030	C596B	1617	C620(2S)	2009	C631B	2009
C536KE(JAPAN)	2009	C543X	2020	C562B	2016	C580R	2030	C596C	1617	C620-D	2009	C631C	2009
C536KF(JAPAN)	2009	C543Y	2020	C562C	2016	C580T	2030	C596D	1617	C620-E	2009	C631D	2009
C536KNP	2009	C544(2S)	2016	C562D	2016	C580X	2030	C596E	1617	C620-OR	2009	C631E	2009
C536L	2009	C544A	2016	C562E	2016	C580Y	2030	C596F	1617	C620A	2009	C631F	2009
C536M	2009	C544AG	2016	C562F	2016	C581	2016	C596G	1617	C620B	2009	C631G	2009
C536NP	2009	C544B	2016	C562G	2016	C585	2020	C596GN	1617	C620C(2S)	2009	C631GN	2009
C536NPE	2009	C544C(2S)	2016	C562GN	2016	C586(2S)	2041	C596H	1617	C620CD(2S)	2009	C631H	2009
C536NPF	2009	C544D(2S)	2016	C562H	2016	C587(2S)	1617	C596J	1617	C620D(2S)	2009	C631J	2009

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C631K	2009	C641GN	2009	C647(2S)	2041	C657GN	2016	C664-OR	2041	C682L	2016	C688L	2058
C631L	2009	C641H	2009	C647Q(2S)	2041	C657H	2016	C664A	2041	C682M	2016	C688M	2058
C631M	2009	C641J	2009	C647R(2S)	2041	C657J	2016	C664B(2S)	2041	C682OR	2016	C688OR	2058
C631OR	2009	C641K	2009	C648(2S)	1617	C657K	2016	C664C(2S)	2041	C682R	2016	C688R	2058
C631R	2009	C641L	2009	C648A	1617	C657L	2016	C664D	2041	C682X	2016	C688X	2058
C631X	2009	C641M	2009	C648B	1617	C657M	2016	C664E	2041	C682Y	2016	C688Y	2058
C631Y	2009	C641OR	2009	C648C	1617	C657OR	2016	C664F	2041	C683	2016	C689(2S)	1617
C632	2009	C641R	2009	C648D	1617	C657R	2016	C664L	2041	C683(2S)	2016	C689A	1617
C632(1)	2009	C641X	2009	C648E(TRANS)	1617	C657X	2016	C664OR	2041	C683-0	2016	C689B	1617
C632(2S)	2009	C641Y	2009	C648F	1617	C657Y	2016	C664R	2041	C683-OR	2016	C689C	1617
C632-OR	2009	C642	2055	C648G	1617	C658(2S)	2016	C664Y	2041	C683A	2016	C689D	1617
C632A(2S)	2009	C642(2S)	2055	C648H(2S)	1617	C658A(2S)	2016	C666(2S)	2041	C683A(2S)	2016	C689E	1617
C632B	2009	C642A(2S)	2055	C648J	1617	C658B	2016	C666C	2041	C683B	2016	C689G	1617
C632C	2009	C643(2S)	2055	C648K	1617	C658C	2016	C667(2S)	2016	C683C	2016	C689GN	1617
C632D	2009	C643-OR	2055	C648L	1617	C658D	2016	C668(2S)	2016	C683D	2016	C689H(2S)	1617
C632E	2009	C643A(2S)	2055	C648M(TRANS)	1617	C658E	2016	C668-OR	2016	C683E	2016	C689J	1617
C632F	2009	C643B	2055	C648OR	1617	C658F	2016	C668-SP	2016	C683F	2016	C689K	1617
C632G	2009	C643C	2055	C648R	1617	C658G	2016	C668A(2S)	2016	C683G	2016	C689L	1617
C632GN	2009	C643D	2055	C648X	1617	C658GN	2016	C668B(2S)	2016	C683GN	2016	C689M	1617
C632H	2009	C643E	2055	C648Y	1617	C658H	2016	C668B1(2S)	2016	C683H	2016	C689OR	1617
C632J	2009	C643F	2055	C649(2S)	1617	C658J	2016	C668BC2(2S)	2016	C683J	2016	C689R	1617
C632K	2009	C643G	2055	C649A	1617	C658K	2016	C668C(2S)	2016	C683K	2016	C689X	1617
C632L	2009	C643GN	2055	C649B	1617	C658L	2016	C668C1(2S)	2016	C683L	2016	C689Y	1617
C632M	2009	C643H	2055	C649C	1617	C658M	2016	C668C2	2016	C683M	2016	C691	2017
C632OR	2009	C643J	2055	C649D	2016	C658OR	2016	C668CD(2S)	2016	C683OR	2016	C692	2017
C632R	2009	C643K	2055	C649E	1617	C658R	2016	C668D(2S)	2016	C683P	2016	C693	2016
C632X	2009	C643L	2055	C649F	1617	C658X	2016	C668D0(2S)	2016	C683Q	2016	C693-OR	2016
C632Y	2009	C643M	2055	C649G	1617	C658Y	2016	C668D1(2S)	2016	C683R	2016	C693A	2016
C633	2009	C643OR	2055	C649GN	1617	C659(2S)	2016	C668DE(2S)	2016	C683S	2016	C693B	2016
C633(2S)	2009	C643R	2055	C649H	1617	C659A	2016	C668DO(2S)	2016	C683V(2S)	2016	C693C	2016
C633-7(2S)	2009	C643X	2055	C649J	1617	C659B	2016	C668DV(2S)	2016	C683X	2016	C693D	2016
C633-OR	2009	C643Y	2055	C649K	1617	C659C	2016	C668DX(2S)	2016	C683Y	2016	C693E	2016
C633A(2S)	2009	C644	2016	C649L	1617	C659D	2016	C668DZ(2S)	2016	C684	2016	C693EB(2S)	2016
C633B	2009	C644(2S)	2016	C649M	1617	C659E	2016	C668E(2S)	2016	C684(2S)	2016	C693ET(2S)	2016
C633C	2009	C644-OR	2016	C649OR	1617	C659F	2016	C668E1(2S)	2016	C684-OR	2016	C693F(2S)	2016
C633D	2009	C644A	2016	C649R	1617	C659G	2016	C668E2(2S)	2016	C684A	2016	C693FC(2S)	2016
C633E	2009	C644B	2016	C649X	1617	C659GN	2016	C668EP(2S)	2016	C684A(2S)	2016	C693FL(2S)	2016
C633F	2009	C644C(2S)	2016	C649Y	1617	C659H	2016	C668EV(2S)	2016	C684B(2S)	2016	C693FP	2016
C633G(2S)	2009	C644D	2016	C650	1617	C659J	2016	C668EX(2S)	2016	C684BK(2S)	2016	C693FU(2S)	2016
C633GN	2009	C644E	2016	C650(2S)	2009	C659K	2016	C668F(2S)	2016	C684C	2016	C693G	2016
C633H(2S)	2009	C644F	2016	C650-OR	2009	C659L	2016	C668G	2016	C684D	2016	C693GL(2S)	2016
C633J	2009	C644F/494	2016	C650-Y	2009	C659M	2016	C668GN	2016	C684E	2016	C693GN	2016
C633K	2009	C644FH	2016	C650A	2009	C659OR	2016	C668H	2016	C684F(2S)	2016	C693GS(2S)	2016
C633L	2009	C644FHS	2016	C650B(2S)	2009	C659R	2016	C668K	2016	C684G	2016	C693GU(2S)	2016
C633M	2009	C644FR(2S)	2016	C650C	2009	C659X	2016	C668L	2016	C684GN	2016	C693GZ(2S)	2016
C633OR	2009	C644FS(2S)	2016	C650D	2009	C659Y	2016	C668M	2016	C684H	2016	C693H(2S)	2016
C633R	2009	C644G	2016	C650E	2009	C660	2016	C668OR	2016	C684J	2016	C693J	2016
C633X	2009	C644GN	2016	C650F	2009	C660(2S)	2016	C668R	2016	C684K	2016	C693K	2016
C633Y	2009	C644H(2S)	2016	C650G	2009	C661	2016	C668SP	2016	C684L	2016	C693L	2016
C634(2)	2009	C644J	2016	C650GN	2009	C661(2S)	2016	C668X	2016	C684M	2016	C693M	2016
C634(2S)	2009	C644K	2016	C650H	2009	C662(2S)	2016	C668Y	2016	C684OR	2016	C693NP	2016
C634-O	2009	C644L	2016	C650J	2009	C662A	2016	C673	2023	C684R	2016	C693OR	2016
C634-OR	2009	C644M	2016	C650K	2009	C662B	2016	C673(2S)	2016	C684TM	2016	C693R	2016
C634A(2S)	2009	C644OR	2016	C650L	2009	C662C	2016	C673B	2016	C684X	2016	C693U	2016
C634AK	2009	C644P(2S)	2016	C650M	2009	C662D	2016	C673C	2016	C684Y	2016	C693X	2016
C634AL	2009	C644PJ(2S)	2016	C650OR	2009	C662E	2016	C673C(JAPAN)	2016	C685R	2016	C693Y	2016
C634AXL	2009	C644Q(2S)	2016	C650R	2009	C662F	2016	C673C2(2S)	2016	C687(2S)	2041	C694(2S)	2016
C634B	2009	C644R	2016	C650X	2009	C662G	2016	C673D(2S)	2016	C687A	2041	C694A	2016
C634C	2009	C644S	2016	C650Y	2009	C662GN	2016	C674	2016	C687B	2041	C694B	2016
C634D	2009	C644S/494	2016	C653	2016	C662H	2016	C674(2S)	2016	C687C	2041	C694C	2016
C634E	2009	C644ST	2016	C655	2009	C662J	2016	C674(JAPAN)	2016	C687D	2041	C694D	2016
C634F	2009	C644T(2S)	2016	C655(2S)	1617	C662K	2016	C674-B	2016	C687E	2041	C694E(2S)	2016
C634G	2009	C644X	2016	C655A	1617	C662L	2016	C674-F	2016	C687F	2041	C694F(2S)	2016
C634GN	2009	C644Y	2016	C655B	1617	C662M	2016	C674B(2S)	2016	C687G	2041	C694G(2S)	2016
C634H	2009	C645(2S)	2016	C655C	1617	C662OR	2016	C674C(2S)	2016	C687GN	2041	C694GN	2016
C634J	2009	C645-OR	2016	C655D	1617	C662R	2016	C674CK	2016	C687H	2041	C694H	2016
C634K	2009	C645A(2S)	2016	C655E	1617	C662X	2016	C674CL	2016	C687J	2041	C694J	2016
C634L	2009	C645B(2S)	2016	C655F	1617	C662Y	2016	C674D(2S)	2016	C687K	2041	C694K	2016
C634M	2009	C645B-1	2016	C655G	1617	C663(2S)	2016	C674E(2S)	2016	C687L	2041	C694L	2016
C634OR	2009	C645C(2S)	2016	C655GN	1617	C663A	2009	C674F(2S)	2016	C687M	2041	C694M	2016
C634R	2009	C645D	2016	C655H	1617	C663B	2016	C674G(2S)	2016	C687OR	2041	C694OR	2016
C634SP	2009	C645E	2016	C655J	1617	C663C	2016	C678	2041	C687R	2041	C694R	2016
C634X	2009	C645F	2016	C655K	1617	C663D	2016	C682	2016	C687X	2041	C694X	2016
C634Y	2009	C645G(2S)	2016	C655L	1617	C663E	2016	C682(2S)	2016	C687Y	2041	C694Y	2016
C635	2009	C645GN	2016	C655M	1617	C663F	2016	C682-OR	2016	C688(2S)	2058	C694Z(2S)	2016
C635A(2S)	2009	C645GR	2016	C655OR	1617	C663G	2016	C682A	2016	C688-SP	2016	C703	2020
C636(2S)	2020	C645H	2016	C655R	1617	C663GN	2016	C682A(2S)	2016	C688A	2058	C704	2020
C639	1617	C645J	2016	C655X	1617	C663H	2016	C682B(2S)	2016	C688B	2058	C705(2S)	2016
C641	2009	C645K	2016	C655Y	1617	C663J	2016	C682C	2016	C688C	2058	C705A	2016
C641(2S)	2009	C645L	2016	C657(2S)	2016	C663K	2016	C682D	2016	C688D	2058	C705B(2S)	2016
C641A	2009	C645M	2016	C657A	2016	C663L	2016	C682E	2016	C688E	2058	C705C(2S)	2016
C641B(2S)	2009	C645N(2S)	2016	C657B	2016	C663M	2016	C682F	2016	C688F	2058	C705D(2S)	2016
C641C	2009	C645OR	2016	C657C	2016	C663OR	2016	C682G	2016	C688G	2058	C705E(2S)	2016
C641D	2009	C645R	2016	C657D	2016	C663R	2016	C682GN	2016	C688GN	2058	C705F(2S)	2016
C641E	2009	C645V	2016	C657E	2016	C663X	2016	C682H	2016	C688H	2058	C705G	2016
C641F	2009	C645X	2016	C657F	2016	C663Y	2016	C682J	2016	C688J	2058	C705GN	2016
C641G	2009	C645Y	2016	C657G	2016	C664	2041	C682K	2016	C688K	2058	C705J	2016

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C705K	2016
C705L	2016
C705M	2016
C705OR	2016
C705R	2016
C705TV(2S)	2016
C705TVV	2016
C705TW	2016
C705X	2016
C705Y	2016
C706	2016
C708(2S)	2030
C708-OR	2030
C708A(2S)	2030
C708AA(2S)	2030
C708AB(2S)	2030
C708AC(2S)	2030
C708AH(2S)	2030
C708B(2S)	2030
C708C(2S)	2030
C708D	2030
C708E	2030
C708F	2030
C708G	2030
C708GN	2030
C708H	2030
C708HA	2030
C708HB	2030
C708L	2030
C708M	2030
C708OR	2030
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C712W(2S)	2009
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C733S-BL	2016
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C733Y(2S)	2016
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C739C(2S)	2016
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C740(2S)	2016
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C748(2S)	2016
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C772BY(2S)	2058
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C772CS(2S)	2058
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C772CV(2S)	2058
C772CX(2S)	2058
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C772DJ(2S)	2058
C772DU(2S)	2058
C772DV(2S)	2058
C772DX(2S)	2058
C772DY(2S)	2058
C772E(2S)	2058
C772F(2S)	2058
C772G	2058

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
C772GN	2058	C785BRN	2058	C793-RED	2041	C814J	2009	C828A(2S)	2009	C838-O	2009	C849X	1617
C772H	2058	C785C	2058	C793-Y	2041	C814K	2009	C828A(JAPAN)	2009	C838A(2S)	2009	C849Y	1617
C772J	2058	C785D(2S)	2058	C793-YEL	2041	C814M	2009	C828AO	2009	C838BL	2009	C850(2S)	1617
C772K(2S)	2058	C785E(2S)	2058	C793A	2041	C814OR	2009	C828AQ(2S)	2009	C838C(2S)	2009	C850A	1617
C772KB(2S)	2058	C785F	2058	C793B	2041	C814R	2009	C828AR(2S)	2009	C838E(2S)	2009	C850B	1617
C772KC(2S)	2058	C785G	2058	C793BL(2S)	2041	C814X	2009	C828AS(2S)	2009	C838F(2S)	2009	C850C	1617
C772KD(2S)	2058	C785GN	2058	C793C	2041	C814Y	2009	C828B	2009	C838H(2S)	2009	C850D	1617
C772KD1(2S)	2058	C785GR	2058	C793E	2041	C815(2S)	2009	C828C	2009	C838HF	2009	C850E	1617
C772KD2(2S)	2058	C785H	2058	C793F	2041	C815-1	2009	C828D	2009	C838I	2009	C850F	1617
C772L	2058	C785JA	2058	C793G	2041	C815A(2S)	2009	C828E(2S)	2009	C838J	2009	C850G	1617
C772M	2058	C785K	2058	C793GN	2041	C815B(2S)	2009	C828F(2S)	2009	C838K(2S)	2009	C850GN	1617
C772OR	2058	C785L	2058	C793H	2041	C815BK	2009	C828G	2009	C838L(2S)	2009	C850H	1617
C772R	2058	C785M	2058	C793J	2041	C815C(2S)	2009	C828GN	2009	C838M(2S)	2009	C850J	1617
C772RB-D(2S)	2058	C785O	2058	C793K	2041	C815D	2009	C828H(2S)	2009	C838R	2009	C850K	1617
C772RD(2S)	2058	C785R(2S)	2058	C793L	2041	C815E	2009	C828HR	2009	C839	2009	C850L	1617
C772RS-D	2058	C785RA	2058	C793M	2041	C815F(2S)	2009	C828K(2S)	2009	C839-E	2009	C850M	1617
C772X	2058	C785RED	2058	C793OR	2041	C815G	2009	C828L	2009	C839-F	2009	C850OR	1617
C772Y	2058	C785V	2058	C793R(2S)	2041	C815GN	2009	C828LS(2S)	2009	C839A(2S)	2009	C850R	1617
C773(2S)	2009	C785X	2058	C793X	2041	C815H	2009	C828M	2009	C839B(2S)	2009	C850X	1617
C773A	2009	C785Y	2058	C793Y(2S)	2041	C815J	2009	C828OR	2009	C839C(2S)	2009	C850Y	1617
C773B	2009	C785YEL	2058	C794	2041	C815K(2S)	2009	C828P(2S)	2009	C839D(2S)	2009	C858(2S)	2016
C773C(2S)	2009	C786(2S)	2016	C794A	2041	C815L(2S)	2009	C828PQ	2009	C839E(2S)	2009	C858A	2016
C773D(2S)	2009	C786A	2016	C794B	2041	C815LJ	2009	C828Q	2009	C839F(2S)	2009	C858B	2016
C773E(2S)	2009	C786B	2016	C794C	2041	C815M(2S)	2009	C828Q-6	2009	C839G	2009	C858C	2016
C773F	2009	C786C	2016	C794D	2041	C815OR	2009	C828QRS(2S)	2009	C839GN	2009	C858D	2016
C773G	2009	C786D	2016	C794E	2041	C815R	2009	C828R	2009	C839H(2S)	2009	C858E	2016
C773GN	2009	C786E	2016	C794F	2041	C815S(2S)	2009	C828R(JAPAN)	2009	C839J(2S)	2009	C858F(2S)	2016
C773H	2009	C786F	2016	C794G	2041	C815SA(2S)	2009	C828R/494	2016	C839J1	2009	C858FG(2S)	2016
C773J	2009	C786G	2016	C794GN	2041	C815SC(2S)	2009	C828R-1	2009	C839JH	2009	C858G(2S)	2016
C773K	2009	C786GN	2016	C794H	2041	C815X	2009	C828RA	2009	C839K	2009	C858GA	2016
C773L	2009	C786H	2016	C794J	2041	C815Y	2009	C828RH	2009	C839L(2S)	2009	C858GN	2016
C773M	2009	C786J	2016	C794K	2041	C816(2S)	2030	C828RS	2009	C839M(2S)	2009	C858H	2016
C773OR	2009	C786K	2016	C794L	2041	C816A	2030	C828RST	2009	C839OR	2009	C858J	2016
C773R	2009	C786L	2016	C794OR	2041	C816B	2030	C828RT	2009	C839R	2009	C858K	2016
C773X	2009	C786M	2016	C794R(2S)	2041	C816C	2030	C828S(2S)	2009	C839X	2009	C858L	2016
C773Y	2009	C786OR	2016	C794RA	2041	C816D	2030	C828T(2S)	2009	C839Y	2009	C858M	2016
C784(2S)	2058	C786R(2S)	2016	C794X	2041	C816E	2030	C828X	2009	C847(2S)	1617	C858OR	2016
C784-0(2S)	2058	C786X	2016	C794Y	2041	C816F	2030	C828Y(2S)	2009	C847A	1617	C858R	2016
C784-6	2058	C786Y	2016	C796(2S)	1617	C816G	2030	C828YL	2009	C847B	1617	C858X	2016
C784-B	2058	C787(2S)	2016	C796A	1617	C816GN	2030	C829	2009	C847C	1617	C858Y	2016
C784-BN	2058	C787A	2016	C796B	1617	C816H	2030	C829-OR	2009	C847D	1617	C859(2S)	2016
C784-BRN	2058	C787B	2016	C796C	1617	C816K(2S)	2030	C829A(2S)	2009	C847E	1617	C859A	2016
C784-O(2S)	2058	C787C	2016	C796D	1617	C816L	2030	C829AK	2009	C847F	1617	C859B	2016
C784-OR	2058	C787D	2016	C796E	1617	C816M	2030	C829B	2009	C847G	1617	C859D	2016
C784-ORG	2058	C787E	2016	C796F	1617	C816OR	2030	C829BC(2S)	2009	C847GN	1617	C859E(2S)	2016
C784-R	2058	C787F	2016	C796G	1617	C816R	2030	C829BJ	2009	C847H	1617	C859F(2S)	2016
C784-RED	2058	C787G	2016	C796GN	1617	C816X	2030	C829BK	2009	C847J	1617	C859FG(2S)	2016
C784-Y	2058	C787GN	2016	C796H	1617	C816Y	2030	C829C	2009	C847K	1617	C859G(2S)	2016
C784A(2S)	2058	C787H	2016	C796J	1617	C826(2S)	2030	C829CL	2009	C847L	1617	C859GK(2S)	2016
C784B	2058	C787K	2016	C796K	1617	C826A	2030	C829D(2S)	2009	C847M	1617	C859GL	2016
C784BN(2S)	2058	C787L	2016	C796L	1617	C826B	2030	C829E	2009	C847OR	1617	C859GM	2016
C784BN-1	2058	C787M	2016	C796M	1617	C826C	2030	C829G	2009	C847R	1617	C859GN	2016
C784BRN	2058	C787OR	2016	C796OR	1617	C826D	2030	C829GN	2009	C847X	1617	C859H	2016
C784C	2058	C787R	2016	C796R	1617	C826E	2030	C829H	2009	C848(2S)	1617	C859J	2016
C784D	2058	C787X	2016	C796X	1617	C826F	2030	C829K	2009	C848A	1617	C859K	2016
C784E	2058	C787Y	2016	C796Y	1617	C826G	2030	C829L	2009	C848B	1617	C859L	2016
C784F	2058	C789(2S)	2020	C797(2S)	2009	C826H	2030	C829M	2009	C848C	1617	C859M	2016
C784G	2058	C789-0(2S)	2020	C797A	2009	C826J	2030	C829OR	2009	C848D	1617	C859OR	2016
C784GN	2058	C789-O(2S)	2020	C797B	2009	C826K	2030	C829R(2S)	2009	C848E	1617	C859R	2016
C784H	2058	C789-R(2S)	2020	C797C	2009	C826L	2030	C829X(2S)	2009	C848F	1617	C859X	2016
C784J	2058	C789-Y(2S)	2020	C797D	2009	C826M	2030	C829Y(2S)	2009	C848G	1617	C859Y	2016
C784K	2058	C789A	2020	C797E	2009	C826OR	2030	C831	2020	C848GN	1617	C860(2S)	2016
C784L	2058	C789B	2020	C797F	2009	C826R	2030	C835(2S)	2016	C848H	1617	C860A	2016
C784M	2058	C789C	2020	C797G	2009	C826X	2030	C836(2S)	2016	C848J	1617	C860B	2016
C784OR	2058	C789D	2020	C797GN	2009	C826Y	2030	C836M	2016	C848K	1617	C860C(2S)	2016
C784P	2058	C789E	2020	C797H	2009	C827(2S)	2030	C837(2S)	2058	C848L	1617	C860D(2S)	2016
C784Q	2058	C789F	2020	C797J	2009	C827A	2030	C837A	2058	C848M	1617	C860E(2S)	2016
C784R(2S)	2058	C789G	2020	C797K	2009	C827B	2030	C837B	2058	C848OR	1617	C860F	2016
C784RA	2058	C789GN	2020	C797L	2009	C827C	2030	C837C	2058	C848R	1617	C860G	2016
C784RED	2058	C789H	2020	C797M	2009	C827D	2030	C837D	2058	C848X	1617	C860GN	2016
C784X	2058	C789J	2020	C797OR	2009	C827E	2030	C837E	2058	C848Y	1617	C860H	2016
C785(2S)	2058	C789K	2020	C797R	2009	C827F	2030	C837F(2S)	2058	C849(2S)	1617	C860J	2016
C785-0	2058	C789L	2020	C797X	2009	C827G	2030	C837G	2058	C849A	1617	C860K	2016
C785-B	2058	C789M	2020	C797Y	2009	C827GN	2030	C837GN	2058	C849B	1617	C860L	2016
C785-BN	2058	C789OR	2020	C801	2030	C827H	2030	C837H(2S)	2058	C849C	1617	C860M	2016
C785-BRN	2058	C789R	2020	C802	2030	C827J	2030	C837J	2058	C849D	1617	C860OR	2016
C785-O	2058	C789X	2020	C811	2016	C827K	2030	C837K(2S)	2058	C849E	1617	C860R	2016
C785-ORG	2058	C789Y	2020	C814(2S)	2009	C827M	2030	C837KL	2058	C849F	1617	C860X	2016
C785-R	2058	C790	2020	C814A	2009	C827OR	2030	C837L(2S)	2058	C849G	1617	C860Y	2016
C785-RED	2058	C790-O	2020	C814B	2009	C827R	2030	C837M	2058	C849GN	1617	C863(2S)	2016
C785-Y	2058	C790-R	2020	C814C	2009	C827X	2030	C837OR	2058	C849H	1617	C863A	2016
C785-YEL	2058	C790-Y	2020	C814D	2009	C827Y	2030	C837R	2058	C849J	1617	C863B	2016
C785A	2058	C790Y	2020	C814E	2009	C828	2009	C837WF(2S)	2058	C849K	1617	C863C	2016
C785B	2058	C793(2S)	2041	C814F	2009	C828(N)	2009	C837X	2058	C849L	1617	C863D	2016
C785BL	2058	C793-BL	2041	C814G	2009	C828-0	2009	C837Y	2058	C849M	1617	C863E	2016
C785BN(2S)	2058	C793-BLU	2041	C814GN	2009	C828-O(2S)	2009	C838	2009	C849OR	1617	C863F	2016
C785BR	2058	C793-R	2041	C814H	2009	C828-OR	2009	C838-2	2009	C849R	1617	C863G	2016

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C863GN	2016	C876C(2S)	2030	C900(2S)	2016	C918E	2058	C924G	2016	C929EZ	2016	C933H	2009
C863H	2016	C876D(2S)	2030	C900-OR	2016	C918F	2058	C924GN	2016	C929F(2S)	2016	C933J	2009
C863J	2016	C876E(2S)	2030	C900A(2S)	2016	C918G	2058	C924H	2016	C929FK(2S)	2016	C933K	2009
C863K	2016	C876F(2S)	2030	C900AF	2016	C918GN	2058	C924J	2016	C929G	2016	C933L	2009
C863L	2016	C876G	2030	C900B(2S)	2016	C918H	2058	C924K	2016	C929GN	2016	C933M	2009
C863M	2016	C876GN	2030	C900C(2S)	2016	C918J	2058	C924L	2016	C929H	2016	C933OR	2009
C863OR	2016	C876H	2030	C900D(2S)	2016	C918K	2058	C924M(2S)	2016	C929J	2016	C933R	2009
C863R	2016	C876J	2030	C900E(2S)	2016	C918L	2058	C924OR	2016	C929K	2016	C933X	2009
C863X	2016	C876K	2030	C900F(2S)	2016	C918LF	2058	C924R	2016	C929L	2016	C933Y	2009
C863Y	2016	C876L	2030	C900G	2016	C918M	2058	C924X	2016	C929M	2016	C934	1617
C864(2S)	2016	C876M	2030	C900J	2016	C918OR	2058	C924Y	2016	C929NP	2016	C934-O	1617
C870(2S)	2009	C876OR	2030	C900K	2016	C918R	2058	C925(2S)	2009	C929OR	2016	C934A	1617
C870A	2009	C876R	2030	C900L(2S)	2016	C918X	2058	C925A	2009	C929R	2016	C934B	1617
C870B	2009	C876TV(2S)	2030	C900M(2S)	2016	C918XL	2058	C925B	2009	C929SP	2016	C934C(2S)	1617
C870C	2009	C876TVD(2S)	2030	C900OR	2016	C918Y	2058	C925C	2009	C929X	2016	C934D(2S)	1617
C870D	2009	C876TV-E	2030	C900R	2016	C920(2S)	2058	C925D	2009	C929Y	2016	C934E(2S)	1617
C870E(2S)	2009	C876TVE(2S)	2030	C900S	2016	C920-0Q	2058	C925E	2009	C930(2S)	2016	C934F(2S)	1617
C870F(2S)	2009	C876TVEF(2S)	2030	C900SA	2016	C920-OR	2058	C925F	2009	C930-OR	2016	C934G(2S)	1617
C870FL	2009	C876TV-F	2030	C900SB	2016	C920A	2058	C925G	2009	C930A	2016	C934GN	1617
C870G	2009	C876TVF	2030	C900SC	2016	C920B	2058	C925GN	2009	C930B(2S)	2016	C934H	1617
C870GN	2009	C876X	2030	C900SD	2016	C920C	2058	C925H	2009	C930BK(2S)	2016	C934J	1617
C870H	2009	C876Y	2030	C900U(2S)	2016	C920CL	2058	C925J	2009	C930C(2S)	2016	C934K	1617
C870J	2009	C877	1617	C900UE	2016	C920D	2058	C925K	2009	C930C-IF	2016	C934L	1617
C870K	2009	C878	1617	C900V	2016	C920E(2S)	2058	C925L	2009	C930CK(2S)	2016	C934M	1617
C870L	2009	C879	2016	C900VE	2016	C920F	2058	C925M	2009	C930CL(2S)	2016	C934OR	1617
C870M	2009	C883	2020	C900X	2016	C920G	2058	C925OR	2009	C930CS(2S)	2016	C934Q	1617
C870OR	2009	C889(2S)	2041	C900Y	2016	C920GN	2058	C925R	2009	C930D(2S)	2016	C934R	1617
C870R	2009	C892	2020	C903	2009	C920H	2058	C925X	2009	C930DB	2016	C934X	1617
C870X	2009	C894(2S)	2009	C904	2009	C920L	2058	C925Y	2009	C930DC	2016	C934Y	1617
C870Y	2009	C894A	2009	C906	1617	C920M	2058	C927(2S)	2016	C930DE(2S)	2016	C936(2S)	2055
C871(2S)	2009	C894B	2009	C906F	1617	C920OR	2058	C927A(2S)	2016	C930DK	2016	C936A	2055
C871-G	2009	C894C	2009	C907(2S)	1617	C920Q(2S)	2058	C927B(2S)	2016	C930DS(2S)	2016	C936B	2055
C871A	2009	C894D	2009	C907A(2S)	1617	C920R(2S)	2058	C927C(2S)	2016	C930DT(2S)	2016	C936BK	2055
C871AM	2009	C894E	2009	C907AC(2S)	1617	C920X	2058	C927CJ(2S)	2016	C930DT-2(2S)	2016	C936C	2055
C871B	2009	C894F	2009	C907AD(2S)	1617	C920Y	2058	C927CK	2016	C930DX(2S)	2016	C936D	2055
C871C	2009	C894G	2009	C907AH(2S)	1617	C921(2S)	2016	C927CT	2016	C930DZ(2S)	2016	C936E	2055
C871D(2S)	2009	C894GN	2009	C907B	1617	C921A	2016	C927CU(2S)	2016	C930E(2S)	2016	C936F	2055
C871E(2S)	2009	C894H	2009	C907C(2S)	1617	C921B	2016	C927CW(2S)	2016	C930E(JAPAN)	2016	C936G	2055
C871F(2S)	2009	C894J	2009	C907D(2S)	1617	C921C	2016	C927D(2S)	2016	C930EP(2S)	2016	C936GN	2055
C871G(2S)	2009	C894K	2009	C907E	1617	C921C1(2S)	2016	C927E(2S)	2016	C930ET(2S)	2016	C936H	2055
C871GN	2009	C894L	2009	C907F	1617	C921CL	2016	C927F	2016	C930EV(2S)	2016	C936J	2055
C871H	2009	C894M	2009	C907G	1617	C921D	2016	C927G	2016	C930EX(2S)	2016	C936K	2055
C871J	2009	C894OR	2009	C907GN	1617	C921E	2016	C927GN	2016	C930F(2S)	2016	C936L	2055
C871K	2009	C894R	2009	C907H(2S)	1617	C921F	2016	C927H	2016	C930G	2016	C936M	2055
C871L	2009	C894X	2009	C907HA(2S)	1617	C921G	2016	C927J	2016	C930GN	2016	C936OR	2055
C871M	2009	C894Y	2009	C907J	1617	C921GN	2016	C927K	2016	C930H	2016	C936R	2055
C871OR	2009	C896(2S)	1617	C907K	1617	C921H	2016	C927L	2016	C930J	2016	C936X	2055
C871R	2009	C896A	1617	C907L	1617	C921J	2016	C927M	2016	C930K	2016	C936Y	2055
C871X	2009	C896B	1617	C907M	1617	C921K(2S)	2016	C927OR	2016	C930L	2016	C938(2S)	2009
C871Y	2009	C896C	1617	C907OR	1617	C921L(2S)	2016	C927R	2016	C930M	2016	C938-O	2009
C875(2S)	2030	C896D	1617	C907R	1617	C921M(2S)	2016	C927X	2016	C930NP	2016	C938A(2S)	2009
C875-1(2S)	2030	C896E	1617	C907X	1617	C921OR	2016	C927XL	2016	C930OR	2016	C938B(2S)	2009
C875-1C(2S)	2030	C896F	1617	C907Y	1617	C921R	2016	C927Y	2016	C930R	2016	C938C(2S)	2009
C875-1D(2S)	2030	C896G	1617	C909	2017	C921W	2016	C927Z	2016	C930SP	2016	C938D	2009
C875-1E(2S)	2030	C896GN	1617	C911	2017	C921X	2016	C928(2S)	2016	C930X	2016	C938E	2009
C875-1F(2S)	2030	C896J	1617	C911A	2017	C921Y	2016	C928A	2016	C930Y	2016	C938F	2009
C875-2(2S)	2030	C896K	1617	C912(2S)	2016	C922(2S)	2009	C928B(2S)	2016	C932(2S)	2017	C938G	2009
C875-2C(2S)	2030	C896L	1617	C912M	1617	C922A(2S)	2009	C928C(2S)	2016	C932A	2017	C938GN	2009
C875-2D(2S)	2030	C896M	1617	C914	1617	C922B(2S)	2009	C928D(2S)	2016	C932B	2017	C938H	2009
C875-2E(2S)	2030	C896OR	1617	C914A	1617	C922C(2S)	2009	C928E(2S)	2016	C932BK	2017	C938J	2009
C875-2F(2S)	2030	C896R	1617	C915	1617	C922K(2S)	2009	C928F	2016	C932C	2017	C938K	2009
C875-3(2S)	2030	C896X	1617	C915A	1617	C922L(2S)	2009	C928G	2016	C932D	2017	C938L	2009
C875-3C(2S)	2030	C896Y	1617	C916	2020	C922M(2S)	2009	C928GN	2016	C932E(2S)	2017	C938M	2009
C875-3D(2S)	2030	C897(2S)	2041	C917(2S)	2016	C923(2S)	2016	C928H	2016	C932F	2017	C938OR	2009
C875-3E(2S)	2030	C897A(2S)	2041	C917A	2016	C923A(2S)	2016	C928J	2016	C932G	2017	C938R	2009
C875-3F(2S)	2030	C897B(2S)	2041	C917B	2016	C923B(2S)	2016	C928K	2016	C932GN	2017	C938X	2009
C875B	2030	C898(2S)	2041	C917C	2016	C923C(2S)	2016	C928L	2016	C932H	2017	C938Y	2009
C875C(2S)	2030	C898A(2S)	2041	C917D	2016	C923D(2S)	2016	C928M	2016	C932J	2017	C941(2S)	2009
C875D(2S)	2030	C898B(2S)	2041	C917E	2016	C923E(2S)	2016	C928OR	2016	C932K	2017	C941-04	2009
C875DL	2030	C899	1617	C917F	2016	C923F(2S)	2016	C928R	2016	C932L	2017	C941-0Y	2009
C875E(2S)	2030	C899A	1617	C917G	2016	C923G	2016	C928X	2016	C932M	2017	C941-O(2S)	2009
C875EL	2030	C899B	1617	C917GN	2016	C923GN	2016	C928Y	2016	C932OR	2017	C941-OY	2009
C875F(2S)	2030	C899C	1617	C917H	2016	C923H	2016	C929(2S)	2016	C932R	2017	C941-R(2S)	2009
C875G	2030	C899D	1617	C917J	2016	C923K	2016	C929-0(2S)	2016	C932X	2017	C941-Y(2S)	2009
C875GN	2030	C899E	1617	C917K(2S)	2016	C923L	2016	C929-O	2016	C932Y	2017	C941K	2009
C875J	2030	C899F	1617	C917L	2016	C923M	2016	C929A	2016	C933(2S)	2009	C941O	2009
C875K	2030	C899G	1617	C917M	2016	C923OR	2016	C929B(2S)	2016	C933A	2009	C941R(2S)	2009
C875L	2030	C899GN	1617	C917OR	2016	C923R	2016	C929C(2S)	2016	C933B	2009	C941TM	2009
C875M	2030	C899H	1617	C917R	2016	C923X	2016	C929C1(2S)	2016	C933BB(2S)	2009	C941TM-O	2009
C875OR	2030	C899J	1617	C917X	2016	C923Y	2016	C929D(2S)	2016	C933C(2S)	2009	C941Y	2009
C875X	2030	C899K(2S)	1617	C917Y	2016	C924(2S)	2016	C929D1(2S)	2016	C933D(2S)	2009	C942	1617
C875Y	2030	C899L	1617	C918(2S)	2058	C924A	2016	C929DE(2S)	2016	C933E(2S)	2009	C943(2S)	1617
C876(2S)	2030	C899M	1617	C918A	2058	C924B	2016	C929DP(2S)	2016	C933F(2S)	2009	C943A(2S)	1617
C876-E	2030	C899OR	1617	C918AL	2058	C924C	2016	C929DU(2S)	2016	C933FB	2009	C943B(2S)	1617
C876-F	2030	C899R	1617	C918B	2058	C924D	2016	C929DV(2S)	2016	C933FP(2S)	2009	C943C(2S)	1617
C876A	2030	C899X	1617	C918C	2058	C924E(2S)	2016	C929E(2S)	2016	C933G(2S)	2009	C943D	1617
C876B	2030	C899Y	1617	C918D	2058	C924F(2S)	2016	C929ED(2S)	2016	C933GN	2009	C943E	1617

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C943G	1617
C943GN	1617
C943H	1617
C943J	1617
C943K	1617
C943L	1617
C943M	1617
C943OR	1617
C943R	1617
C943X	1617
C943Y	1617
C944(2S)	2009
C944S	2009
C945	2009
C945(JAPAN)	2009
C945-0	2009
C945-O(2S)	2009
C945-OR	2009
C945-YX	2009
C945A(2S)	2009
C945AK	2009
C945AP(2S)	2009
C945AQ(2S)	2009
C945AR	2009
C945B(2S)	2009
C945C(2S)	2009
C945D(2S)	2009
C945E(2S)	2009
C945F(2S)	2009
C945G(2S)	2009
C945GN	2009
C945H(2S)	2009
C945J	2009
C945K(2S)	2009
C945L(2S)	2009
C945LP	2009
C945LP(JAPAN)	2009
C945LQ	2009
C945M(2S)	2009
C945OR	2009
C945P(2S)	2009
C945P(JAPAN)	2009
C945P1	2009
C945PJ	2009
C945PQ	2009
C945Q(2S)	2009
C945Q(JAPAN)	2009
C945QL(2S)	2009
C945QP(2S)	2009
C945R(2S)	2009
C945RA	2009
C945S(2S)	2009
C945T(2S)	2009
C945TK	2009
C945TP	2009
C945TQ(2S)	2009
C945X(2S)	2009
C945Y	2009
C945Y(KOREA)	2009
C947(2S)	2016
C947A	2016
C947B	2016
C947C	2016
C947D	2016
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C947F	2016
C947G	2016
C947GN	2016
C947H	2016
C947J	2016
C947K	2016
C947L	2016
C947M	2016
C947OR	2016
C947R	2016
C947X	2016
C947Y	2016
C948(2S)	2016
C948A	2016
C948B	2016
C948D	2016
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C948F	2016
C948G	2016
C948GN	2016
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C948J	2016
C948K	2016
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C948M	2016
C948OR	2016
C948R	2016
C948X	2016
C948Y	2016
C949	2016
C950	1617
C951	2009
C952	2009
C953	1617
C954	1617
C955	1617
C956	1617
C957(2S)	2016
C957A	2016
C957AL	2016
C957B	2016
C957C	2016
C957D	2016
C957E	2016
C957F	2016
C957G	2016
C957GN	2016
C957H	2016
C957J	2016
C957K	2016
C957L	2016
C957M	2016
C957OR	2016
C957R	2016
C957X	2016
C957XL	2016
C957Y	2016
C959(2S)	2030
C959A(2S)	2030
C959B(2S)	2030
C959C(2S)	2030
C959D(2S)	2030
C959E	2030
C959F	2030
C959G	2030
C959GN	2030
C959H	2030
C959J	2030
C959K	2030
C959L	2030
C959M(2S)	2030
C959OR	2030
C959R	2030
C959S(2S)	2030
C959SA(2S)	2030
C959SB(2S)	2030
C959SC(2S)	2030
C959SD(2S)	2030
C959X	2030
C959Y	2030
C963	1617
C964	1617
C965	1617
C966(2S)	1617
C966A	1617
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C966Y	1617
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C967Y	1617
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C968P(2S)	2009
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C968Y	2009
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C970	1617
C972(2S)	2030
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C972C(2S)	2030
C972D(2S)	2030
C972E(2S)	2030
C972F	2030
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C972Y	2030
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C979-O	1617
C979-R	1617
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C979A-R	1617
C980	2009
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C980AG-O	2009
C980AG-R	2009
C980G	2009
C980G-O	2009
C980G-R	2009
C980G-Y	2009
C984(2S)	2009
C984A(2S)	2009
C984B(2S)	2009
C984C(2S)	2009
C984D	2009
C984E	2009
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C984G	2009
C984GN	2009
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C984R	2009
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C984Y	2009
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C985A	2016
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C987A	2016
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C988B	2016
C990	2020
C993(2S)	1617
C993D	1617
C993E	1617
C994	2009
C997(2S)	2058
C997A	2058
C997B	2058
C997C	2058
C997D	2058
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C999OR	2055
C999R	2055
C999X	2055
C999Y	2055
C1000	2016
C1000(2S)	2016
C1000-BL(2S)	2016
C1000-GR(2S)	2016
C1000-Y(2S)	2016
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C1000B	2016
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C1000L	2016
C1000M	2016
C1000OR	2016
C1000R	2016
C1000X	2016
C1000Y(2S)	2016
C1002	2016
C1003	2009
C1004	2055
C1004(2S)	2055
C1004(TRANS)	2055
C1004A(2S)	2055
C1004A(TRANS)	2055
C1004B	2055
C1004C	2055
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C1008Y(KOREA)	2009
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C1009F5	2058
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C1010(TRANS)	2016
C1010A	2016
C1010A(TRANS)	2016
C1010B	2016
C1010B(TRANS)	2016
C1010C(2S)	2016
C1019C	2020
C1023	2016
C1023-O(2S)	2016
C1023-Y(2S)	2016
C1023A	2016
C1023B	2016
C1023C	2016
C1023D	2016
C1023E	2016
C1023F	2016
C1023G(2S)	2016
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C1023H	2016
C1023J	2016
C1023K	2016
C1023L	2016
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C1023OR	2016
C1023R	2016
C1023X	2016
C1023Y	2016
C1026	2016
C1026(TRANS)	2016
C1026-O	2016
C1026-R	2016
C1026A(TRANS)	2016
C1026B(TRANS)	2016
C1026BL	2016
C1026C	2016
C1026D	2016
C1026E	2016
C1026F	2016
C1026G(2S)	2016
C1026GN	2016
C1026GR	2016
C1026H	2016
C1026J	2016
C1026K	2016
C1026L	2016
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C1026OR	2016
C1026R	2016
C1026X	2016
C1026Y(2S)	2016
C1030(TRANS)	2041
C1030-OR	2041
C1030A(TRANS)	2041
C1030B(TRANS)	2041
C1030B2C	2041
C1030C(2S)	2041
C1030D(2S)	2041
C1030E	2041
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C1030P	2041
C1030R	2041
C1030X	2041
C1030Y	2041
C1032	2016
C1032(TRANS)	2016
C1032A(TRANS)	2016
C1032B(TRANS)	2016
C1032BL	2016
C1032C	2016
C1032D	2016
C1032E	2016
C1032F	2016
C1032G(2S)	2016
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C1032OR	2016
C1032R	2016
C1032X	2016
C1032Y(2S)	2016
C1035	2016
C1035(TRANS)	2016
C1035A(TRANS)	2016
C1035B(TRANS)	2016
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C1035D(2S)	2016
C1035E(2S)	2016
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C1036F	2016
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C1036H	2016
C1036J	2016
C1036K	2016
C1036L	2016
C1036M	2016
C1036OR	2016
C1036R	2016
C1036X	2016
C1036Y	2016
C1044(2S)	2016
C1045	2055
C1045(2S)	2055
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C1045B(2S)	2055
C1045C(2S)	2055
C1045D(2S)	2055
C1045E(2S)	2055
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C1045G	2055
C1045GN	2055
C1045H	2055
C1045J	2055
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C1045L	2055
C1045M	2055
C1045OR	2055
C1045R(2S)	2055
C1045X	2055
C1045Y	2055
C1046	2055
C1046(2S)	2055
C1046-OR	2055
C1046A(TRANS)	2055
C1046B(TRANS)	2055
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C1046D	2055
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C1046Y	2055
C1047(2S)	2016
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C1047B(2S)	2016
C1047BC	2016
C1047BCD	2016
C1047C(2S)	2016
C1047D(2S)	2016
C1047E(2S)	2016
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C1047Y	2016
C1051(2S)	2041
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C1052	2030
C1053	2030
C1054	2016
C1060	2020
C1060(2S)	2020
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C1060A(2S)	2020
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C1060B(2S)	2020
C1060BL	2020
C1060BM(2S)	2020
C1060BY	2020
C1060C(2S)	2020
C1060D(2S)	2020
C1060E	2020
C1060F	2020
C1060G	2020
C1060GN	2020
C1060H	2020
C1060J	2020
C1060K	2020
C1060L	2020
C1060M	2020
C1060OR	2020
C1060R	2020
C1060X	2020
C1060Y	2020

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DEVICE	276	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276·	DEVICE	276·	DEVICE	276
C1061	2020	C1101R	2055	C1150	2030	C1175CY	2009	C1215R	2016	C1317A	2009	C1335G	2016
C1061(2S)	2020	C1101X	2055	C1150(TRANS)	2030	C1175D(2S)	2009	C1215X	2016	C1317BC	2009	C1335GN	2016
C1061-C	2020	C1101Y	2055	C1151	2055	C1175E(2S)	2009	C1215Y	2016	C1317C	2009	C1335H	2016
C1061A	2020	C1107	2020	C1151(TRANS)	2055	C1175F(2S)	2009	C1216	2058	C1317E	2009	C1335J	2016
C1061A(TRANS)	2020	C1107Q(2S)	2020	C1151A	2055	C1180	2016	C1218(2S)	2030	C1317G	2009	C1335K	2016
C1061B	2020	C1107YG	2020	C1151A(TRANS)	2055	C1182	2016	C1219	2009	C1317GR	2009	C1335L	2016
C1061B(TRANS)	2020	C1108	2020	C1153(2S)	2055	C1182B(2S)	2016	C1220	2009	C1317L	2009	C1335M	2016
C1061BM	2020	C1109	2020	C1153A	2055	C1182C(2S)	2016	C1220(TRANS)	2009	C1317NC	2009	C1335OR	2016
C1061C(2S)	2020	C1109(TRANS)	2020	C1166	2009	C1182D(2S)	2016	C1220-003	2009	C1317OR	2009	C1335R	2016
C1061D(2S)	2020	C1110	2020	C1166(TRANS)	2009	C1184(2S)	2055	C1220A(TRANS)	2009	C1317Q(2S)	2009	C1335X	2016
C1061K	2020	C1111(2S)	2041	C1166-GR	2009	C1184A(2S)	2055	C1220AP	2009	C1317R(2S)	2009	C1335Y	2016
C1061KA	2030	C1117	2016	C1166-O	2009	C1184B(2S)	2055	C1220AQ	2009	C1317S(2S)	2009	C1336(TRANS)	2016
C1061KB	2030	C1117A	2016	C1166-R	2009	C1184C(2S)	2055	C1220AR	2009	C1317T(2S)	2009	C1336K	2016
C1061KC	2030	C1117B	2016	C1166-Y	2009	C1184D(2S)	2055	C1220E(2S)	2009	C1317V	2009	C1342(2S)	2016
C1061SC	2020	C1117C	2016	C1166A(TRANS)	2009	C1184E(2S)	2055	C1220P	2009	C1317Y	2009	C1342-OR	2016
C1061T(2S)	2020	C1117D	2016	C1166B(TRANS)	2009	C1187(2S)	2058	C1220Q	2009	C1318(2S)	2009	C1342A(2S)	2016
C1061TB(2S)	2020	C1117E	2016	C1166C	2009	C1187R(KOREA)	2058	C1220R	2009	C1318B	2009	C1342B(2S)	2016
C1066	2016	C1117F	2016	C1166E	2009	C1188	2058	C1222	2016	C1318C(2S)	2009	C1342C(2S)	2016
C1067	2016	C1117G	2016	C1166F	2009	C1189	2058	C1222(TRANS)	2016	C1318E	2009	C1342D	2016
C1069	2030	C1117GN	2016	C1166G	2009	C1189L	2058	C1222A	2016	C1318F	2009	C1342E	2016
C1070(2S)	2016	C1117H	2016	C1166GN	2009	C1204(2S)	2009	C1222A(TRANS)	2016	C1318G	2009	C1342F	2016
C1070-1	2016	C1117J	2016	C1166H	2009	C1204B(2S)	2009	C1222B	2016	C1318GN	2009	C1342G	2016
C1070-2	2016	C1117K	2016	C1166K	2009	C1204C(2S)	2009	C1222B(TRANS)	2016	C1318H	2009	C1342GN	2016
C1070-3	2016	C1117L	2016	C1166L	2009	C1204D(2S)	2009	C1222C(2S)	2016	C1318J	2009	C1342J	2016
C1071(2S)	1617	C1117M	2016	C1166M	2009	C1205(2S)	2009	C1222D(2S)	2016	C1318K	2009	C1342K	2016
C1072(2S)	2030	C1117OR	2016	C1166O(2S)	2009	C1205A(2S)	2009	C1222E	2016	C1318L	2009	C1342L	2016
C1072A(2S)	2030	C1117R	2016	C1166OR	2009	C1205B(2S)	2009	C1222H	2016	C1318M	2009	C1342M	2016
C1079(2S)	2041	C1117X	2016	C1166U	2009	C1205C(2S)	2009	C1222U	2016	C1318P	2009	C1342OR	2016
C1079-R	2041	C1117Y	2016	C1166Y(2S)	2009	C1206	2030	C1236	2058	C1318PR	2009	C1342R	2016
C1079-Y	2041	C1123(2S)	2009	C1167(2S)	2055	C1206B	2030	C1240	2058	C1318Q(2S)	2009	C1342X	2016
C1080(2S)	2041	C1123A	2009	C1170(2S)	2055	C1209(2S)	2009	C1244(2S)	2009	C1318QP	2009	C1342Y	2016
C1080-R	2041	C1123B	2009	C1170-OR	2055	C1209C(2S)	2009	C1246	2009	C1318QR	2009	C1343(2S)	2041
C1080-Y	2041	C1123C	2009	C1170A(2S)	2055	C1209D	2009	C1246A	2009	C1318R(2S)	2009	C1343-OR	2041
C1080B	2041	C1123D	2009	C1170B(2S)	2055	C1209L	2009	C1246R	2009	C1318Y	2009	C1343B(2S)	2041
C1080LB	2041	C1123E	2009	C1170BFA-2	2055	C1210(2S)	2009	C1246S	2009	C1319	2016	C1343BL	2041
C1084	2058	C1123F	2009	C1170C	2055	C1210Y	2009	C1246T	2009	C1319C	2016	C1343D	2041
C1091A	2017	C1123GN	2009	C1170D	2055	C1211(2S)	2009	C1247	2009	C1320	2058	C1343E	2041
C1098(2S)	2017	C1123H	2009	C1170E	2055	C1213(2S)	2009	C1247A	2009	C1320A	2058	C1343F	2041
C1098(4)K	2017	C1123J	2009	C1170F	2055	C1213-OR	2009	C1247AF	2009	C1320B	2058	C1343G	2041
C1098(4)L	2017	C1123K	2009	C1170FA-2	2055	C1213A(2S)	2009	C1254	2016	C1320C	2058	C1343GN	2041
C1098-4K	2017	C1123L	2009	C1170G	2055	C1213A(JAPAN)	2009	C1266	2030	C1320D	2058	C1343G-R	2041
C1098-4L	2017	C1123M	2009	C1170GN	2055	C1213AA(2S)	2009	C1274	1617	C1320E	2058	C1343GR	2041
C1098-42M	2017	C1123OR	2009	C1170H	2055	C1213AB(2S)	2009	C1276	2016	C1320F	2058	C1343H(2S)	2041
C1098A(2S)	2017	C1123R	2009	C1170J	2055	C1213AC(2S)	2009	C1281	2009	C1320G	2058	C1343J	2041
C1098B(2S)	2017	C1123X	2009	C1170K	2055	C1213AD(2S)	2009	C1283	2009	C1320GN	2058	C1343K	2041
C1098C(2S)	2017	C1123Y	2009	C1170L	2055	C1213AK(2S)	2009	C1285	2009	C1320H	2058	C1343L	2041
C1098D(2S)	2017	C1126(2S)	2058	C1170M	2055	C1213AKB(2S)	2009	C1293	2016	C1320J	2058	C1343M	2041
C1098L(2S)	2017	C1126A	2058	C1170OR	2055	C1213AKC(2S)	2009	C1293A	2016	C1320K	2016	C1343O	2041
C1098M(2S)	2017	C1126B	2058	C1170R	2055	C1213AKD(2S)	2009	C1293B(2S)	2016	C1320L	2058	C1343OR	2041
C1099	2055	C1126E	2058	C1170X	2055	C1213B(2S)	2009	C1293C	2016	C1320M	2058	C1343R	2041
C1099K	2055	C1126F	2058	C1170Y	2055	C1213BC(2S)	2009	C1293D	2016	C1320OR	2058	C1343X	2041
C1100(TRANS)	2055	C1126GN	2058	C1171(2S)	2055	C1213C(2S)	2009	C1295(2S)	2055	C1320R	2058	C1343Y	2041
C1100A(TRANS)	2055	C1126J	2058	C1172(2S)	2055	C1213C(JAPAN)	2009	C1295-R	2055	C1320X	2058	C1344(2S)	2016
C1100B(TRANS)	2055	C1126K	2058	C1172A(2S)	2055	C1213CD(2S)	2009	C1295-O(2S)	2055	C1320Y	2058	C1344C(2S)	2016
C1100C	2055	C1126L	2058	C1172B(2S)	2055	C1213D(2S)	2009	C1296	2055	C1321	2016	C1344D(2S)	2016
C1100D	2055	C1126M	2058	C1172C	2055	C1213D-24	2009	C1300	2055	C1321Q2	2016	C1344E(2S)	2016
C1100E	2055	C1126OR	2058	C1172D	2055	C1213E	2009	C1308(2S)	2055	C1321Q3	2016	C1344F(2S)	2016
C1100F	2055	C1126R	2058	C1172E	2055	C1213F	2009	C1308K(2S)	2055	C1321Q4	2016	C1345(2S)	2016
C1100G	2055	C1126X	2058	C1172F	2055	C1213G	2009	C1308L	2055	C1321Q5	2016	C1345C(2S)	2016
C1100GN	2055	C1126Y	2058	C1172G	2055	C1213GN	2009	C1308N	2055	C1322	2041	C1345D	2016
C1100H	2055	C1128(2S)	2058	C1172GN	2055	C1213H	2009	C1309(2S)	2055	C1323(2S)	2055	C1345E	2016
C1100J	2055	C1128-O	2058	C1172H	2055	C1213J	2009	C1310	2009	C1323A(2S)	2055	C1345F(2S)	2016
C1100K	2055	C1128A	2058	C1172J	2055	C1213K	2009	C1311	2009	C1323AK	2055	C1345KD	2016
C1100L	2055	C1128B	2058	C1172K	2055	C1213L	2009	C1312(2S)	2016	C1323AL	2055	C1345KE	2016
C1100M	2055	C1128BL	2058	C1172L	2055	C1213M	2009	C1312A	2016	C1327(2S)	2016	C1345KF	2016
C1100OR	2055	C1128C	2058	C1172M	2055	C1213OR	2009	C1312BC	2016	C1327FS(2S)	2016	C1352	2009
C1100R	2055	C1128D(2S)	2058	C1172R	2055	C1213Q	2009	C1312C	2016	C1327R	2016	C1358(2S)	2055
C1100X	2055	C1128G	2058	C1172X	2055	C1213X	2009	C1312D	2016	C1327S	2016	C1358A	2055
C1100Y	2055	C1128H	2058	C1172Y	2055	C1213Y	2009	C1312E	2016	C1327T	2016	C1358K(2S)	2055
C1101	2055	C1128M	2058	C1173(2S)	2020	C1214(2S)	2009	C1312F(2S)	2016	C1327TU	2016	C1358K1	2055
C1101(TRANS)	2055	C1128R	2058	C1173-O(2S)	2020	C1214A(2S)	2009	C1312G(2S)	2016	C1327TV	2016	C1358K2	2055
C1101A	2055	C1128S	2058	C1173-B	2020	C1214B(2S)	2009	C1312GN	2016	C1327U(2S)	2016	C1358K3	2055
C1101A(TRANS)	2055	C1128Y	2058	C1173-C	2020	C1214C(2S)	2009	C1312H(2S)	2016	C1328(2S)	2016	C1358L	2055
C1101B	2055	C1129(2S)	2058	C1173-OR(2S)	2020	C1214D(2S)	2009	C1312J	2016	C1328T(2S)	2016	C1358M	2055
C1101B(TRANS)	2055	C1129-O	2058	C1173-Q(2S)	2020	C1215(2S)	2016	C1312K	2016	C1328U(2S)	2016	C1359(2S)	2009
C1101C(2S)	2055	C1129A	2058	C1173-R(2S)	2020	C1215C	2016	C1312L	2016	C1331(TRANS)	2016	C1359A(2S)	2009
C1101D(2S)	2055	C1129B	2058	C1173-Y(2S)	2020	C1215D	2016	C1312M	2016	C1335	2009	C1359B(2S)	2009
C1101E(2S)	2055	C1129BL	2058	C1173A	2020	C1215E	2016	C1312OR	2016	C1335(TRANS)	2016	C1359BC	2009
C1101F(2S)	2055	C1129C	2058	C1173B	2020	C1215F	2016	C1312R	2016	C1335-OR	2016	C1359C(2S)	2009
C1101G	2055	C1129G	2058	C1173GR	2020	C1215G	2016	C1312X	2016	C1335A	2016	C1359Q	2009
C1101GN	2055	C1129M	2058	C1173M(2S)	2020	C1215GN	2016	C1312Y(2S)	2016	C1335A(TRANS)	2016	C1360(2S)	2016
C1101H	2055	C1129R	2058	C1173X(2S)	2020	C1215H	2016	C1313(2S)	2016	C1335B	2016	C1360A	2016
C1101J	2055	C1129Y	2058	C1173XD	2020	C1215J	2016	C1313B	2016	C1335B(TRANS)	2016	C1361(2S)	2009
C1101K	2055	C1130	2055	C1173XY	2020	C1215K	2016	C1313T(2S)	2016	C1335C(2S)	2016	C1362(2S)	2009
C1101L(2S)	2055	C1132	2055	C1173Y	2020	C1215L	2016	C1317(2S)	2009	C1335D(2S)	2016	C1362(47)	2009
C1101M	2055	C1133	2055	C1175(2S)	2009	C1215M	2016	C1317-OR	2009	C1335E(2S)	2016	C1363(2S)	2009
C1101OR	2055	C1133D	2055	C1175C(2S)	2009	C1215OR	2016	C1317-R	2009	C1335F(2S)	2016	C1364(2S)	2009

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C1364-6	2009	C1419-C	2020	C1637	2016	C1730K	2016	C1827	2020	C2001A	2009	C2309D	2016
C1364-8	2009	C1419B(2S)	2020	C1639(2S)	1617	C1730L	2016	C1833	2009	C2001F	2009	C2309E	2016
C1364-OR	2009	C1419C(2S)	2020	C1641	1617	C1734	1617	C1834	2009	C2001G	2009	C2309F	2016
C1364A(2S)	2009	C1427	2058	C1641Q	1617	C1734H	1617	C1840	2016	C2001I	2009	C2310	2009
C1364B	2009	C1428	2016	C1641R	1617	C1735	2009	C1840E	2016	C2001K	2009	C2315	2020
C1364C	2009	C1438	2009	C1647	2016	C1739(2S)	1617	C1840F	2016	C2001K(JAPAN)	2009	C2320	2009
C1364D	2009	C1439	2009	C1647Q	2016	C1740	2009	C1840P	2016	C2001L	2009	C2320(JAPAN)	2009
C1364E	2009	C1444	2020	C1647RY	2016	C1740C	2009	C1842	2016	C2001L1	2009	C2320L	2009
C1364H	2009	C1445	2020	C1648(2S)	2016	C1740D	2009	C1842E	2016	C2001M	2009	C2320LE(ECB)	2009
C1364K	2009	C1453	2016	C1648E	2016	C1740E(JAPAN)	2009	C1843	2016	C2002	2009	C2348	2058
C1364L	2009	C1466	2055	C1648EF	2016	C1740L	2009	C1844	2016	C2002K	2009	C2349	2016
C1364M	2009	C1467	2055	C1648SH	2016	C1740P	2009	C1849	2009	C2002L	2009	C2350	2020
C1364OR	2009	C1478	2058	C1652	2009	C1740Q	2009	C1850	2009	C2002L(JAPAN)	2009	C2352	2058
C1364R	2009	C1478A	2058	C1667(2S)	2041	C1740QH	2009	C1851	2009	C2002M	2009	C2362	2016
C1364X	2009	C1537(2S)	2016	C1674(2S)	2016	C1740QJ	2009	C1852	2009	C2003	2009	C2362G	2016
C1364Y	2009	C1537-0	2016	C1674AL	2016	C1740QR	2009	C1853	2009	C2009	2058	C2362H	2016
C1367(2S)	2035	C1537-O	2016	C1674K(2S)	2016	C1740R	2009	C1853B	2009	C2012	2016	C2362K	2016
C1367A(2S)	2035	C1537B(2S)	2016	C1674L(2S)	2016	C1740R(JAPAN)	2009	C1853C	2009	C2021	2016	C2363	2009
C1372	2009	C1538(2S)	2016	C1674L(JAPAN)	2016	C1740RE	2009	C1854	2009	C2021-Q	2016	C2377	2016
C1372Y(2S)	2009	C1538S(2S)	2016	C1674M(2S)	2016	C1740RH	2009	C1854C	2009	C2021L	2016	C2377C	2016
C1373	2016	C1538SA(2S)	2016	C1674R(KOREA)	2016	C1740RL	2009	C1854R	2009	C2021Q	2016	C2377D	2016
C1374	2016	C1539	2009	C1675(2S)	2009	C1740RM	2009	C1854S	2009	C2021Q(JAPAN)	2016	C2385	2016
C1374H	2016	C1540	2009	C1675B	2009	C1740RN(JAPAN)	2009	C1855	2058	C2021R	2016	C2398	2041
C1375	2016	C1541	2009	C1675K(2S)	2009	C1740RS	2009	C1856	2058	C2021R(JAPAN)	2016	C2406	1104
C1375H	2016	C1542(2S)	2016	C1675K(JAPAN)	2009	C1740S	2009	C1856-02	2058	C2021RJ	2016	C2406M	1104
C1376	2009	C1543	2058	C1675L(2S)	2009	C1740S(JAPAN)	2009	C1856M	2058	C2021RL(JAPAN)	2016	C2458	2009
C1376H	2009	C1544	2009	C1675M(2S)	2009	C1740SRJ(JAPAN)	2009	C1857	2009	C2021RM(JAPAN)	2016	C2458-O	2009
C1380	1617	C1547(2S)	2016	C1681(TRANS)	2016	C1741	2009	C1875	2055	C2021S	2016	C2458BL	2009
C1380-BL	1617	C1553	2016	C1681-BL	2016	C1746A	2009	C1875K	2055	C2021ST(JAPAN)	2016	C2458GR	2009
C1380-GR	1617	C1570	2016	C1681-GR	2016	C1766	2009	C1875L	2055	C2021Y	2016	C2458Y	2009
C1380A	1617	C1570FL	2016	C1681A(TRANS)	2016	C1766B	2009	C1875R	2055	C2027	2055	C2458Y(JAPAN)	2009
C1380A-BL	1617	C1570GL	2016	C1681B	2016	C1769	2016	C1881K	2068	C2035	2009	C2471	2058
C1380A-GR	1617	C1570HL	2016	C1681B(TRANS)	2016	C1770	2009	C1894	2055	C2053	2009	C2504	1104
C1385	1617	C1570LH	2016	C1681B6	2016	C1771	1617	C1894K	2055	C2055	2009	C2506	1104
C1385H	1617	C1571G	2016	C1681BL(2S)	2016	C1773	2041	C1894N	2055	C2057	2058	C2512	2058
C1386	2030	C1571H	2016	C1681C	2016	C1774	2009	C1895	2055	C2057-C	2058	C2519	2016
C1388	2030	C1574	2041	C1681F	2016	C1776	2009	C1896	2055	C2057C	2058	C2545D	2016
C1390	2009	C1596	2009	C1681G	2016	C1777	2041	C1897	2030	C2057D	2058	C2545E	2016
C1390A	2016	C1601	2058	C1681GN	2016	C1778	2058	C1898	2009	C2057E	2058	C2545F	2016
C1390IW	2009	C1606	2017	C1681GR	2016	C1779	2058	C1899	2009	C2057E1	2058	C2549	2058
C1390JX	2009	C1607	2009	C1681H	2016	C1780	2030	C1906	2016	C2057F	2058	C2550	1617
C1390W(2S)	2009	C1621	2016	C1681J	2016	C1781	1617	C1906(JAPAN)	2016	C2063	2009	C2561	2016
C1390WH(2S)	2009	C1621-0	2016	C1681K	2016	C1781H	1617	C1907	2016	C2063P	2009	C2570	2016
C1390WX(2S)	2009	C1621B2	2016	C1681L	2016	C1781HA	1617	C1908	2058	C2069	1617	C2570A	2016
C1390X(2S)	2009	C1621B3	2016	C1681M	2016	C1781HB	1617	C1908E(2S)	2058	C2070	1617	C2575	2009
C1390XK(2S)	2009	C1621B4	2016	C1681O	2016	C1781HC	1617	C1908H	2058	C2086	2009	C2575L	2009
C1390YM(2S)	2009	C1622	2016	C1681OR	2016	C1788	2009	C1919	2016	C2087	2009	C2602	2016
C1393(2S)	2058	C1622A	2016	C1681R	2016	C1788R	2009	C1919C	2016	C2107	2009	C2603	2009
C1393K	2058	C1622D6	2016	C1681V	2016	C1789	2016	C1923	2058	C2107G3	2009	C2603-E	2009
C1393L	2058	C1622D7	2016	C1682	2016	C1801	2016	C1923-0	2058	C2109	2009	C2603-F	2009
C1393M	2058	C1622D8	2016	C1682(TRANS)	2016	C1802	2016	C1923-O	2058	C2110	2030	C2603E	2009
C1394(2S)	2058	C1622O	2016	C1684(2S)	2009	C1802(TRANS)	2058	C1923A	2058	C2111(2S)	1617	C2603F	2009
C1395	2016	C1622Y	2016	C1684BL	2009	C1813	1617	C1923BN	2058	C2120	2009	C2634-RS	2016
C1396(2S)	2016	C1623	2016	C1684K	2009	C1815	2009	C1940	2009	C2120-0	2009	C2634NC	2016
C1398(2S)	2020	C1623L3	2016	C1684P	2009	C1815-0	2009	C1954	2016	C2120-O	2009	C2634R	2016
C1398P	2020	C1623L4	2016	C1684Q	2009	C1815-BL	2009	C1959	2009	C2120-Y	2009	C2634R(JAPAN)	2016
C1398Q(2S)	2020	C1623L5	2016	C1684R	2009	C1815-GR	2009	C1959-O	2009	C2120FA	2009	C2634RS	2016
C1402(2S)	2041	C1623L6	2016	C1684S	2009	C1815-GRFA	2009	C1959-O(KOREA)	2009	C2120Y	2009	C2634S	2016
C1411	1617	C1623L7	2016	C1684T	2009	C1815-O	2009	C1959-Y	2009	C2120Y(JAPAN)	2009	C2634S(JAPAN)	2016
C1413(2S)	2055	C1624	2020	C1685	2009	C1815-O(JAPAN)	2009	C1959-YFA	2009	C2120Y(KOREA)	2009	C2636	2016
C1413A(2S)	2055	C1624-O	2020	C1685(TRANS)	2009	C1815-O(KOREA)	2009	C1959GR	2009	C2120YFA	2009	C2646	2016
C1413AH	2055	C1624-Y	2020	C1685-O	2009	C1815-OFA	2009	C1959Y	2009	C2123	2055	C2647	2058
C1413B	2055	C1625	2020	C1685-P	2009	C1815-Y	2009	C1959Y(JAPAN)	2009	C2153	2009	C2647C	2058
C1413C	2055	C1625-0	2020	C1685-Q	2009	C1815-YFA	2009	C1959Y(KOREA)	2009	C2190	2055	C2669	2009
C1413D	2055	C1625-O	2020	C1685-R	2009	C1815BL	2009	C1960	2009	C2206	2009	C2669-O(JAPAN)	2009
C1413E	2055	C1625-Y	2020	C1685C	2009	C1815BL(KOREA)	2009	C1976	2009	C2206B	2009	C2670	2009
C1413F	2055	C1625Y	2020	C1685CR	2009	C1815FA	2009	C1984	2068	C2206C	2009	C2710	2009
C1413G	2055	C1625YLBGH	2020	C1685P(2S)	2009	C1815G	2009	C1985	2020	C2206Q	2009	C2710-O	2009
C1413GN	2055	C1625YLBGL1	2020	C1685Q(2S)	2009	C1815GR	2009	C1985(JAPAN)	2020	C2206R	2009	C2710-Y	2009
C1413K	2055	C1626	2020	C1685Q(JAPAN)	2009	C1815GR(JAPAN)	2009	C1986	2020	C2210	2058	C2717	2058
C1413L	2055	C1626-O	2020	C1685QR	2009	C1815GR(KOREA)	2009	C1989	2016	C2212	2016	C2717FA	2058
C1413R	2055	C1626-Y	2020	C1685R	2009	C1815O	2009	C1990	2016	C2212A	2016	C2719	2009
C1413X	2055	C1626Y	2020	C1685S(2S)	2009	C1815Y	2009	C1990B	2016	C2213	2016	C2719(JAPAN)	2009
C1413Y	2055	C1627	2009	C1685T	2009	C1815Y(JAPAN)	2009	C1991	2009	C2215	2058	C2719L(JAPAN)	2009
C1416(2S)	1617	C1627-O	2009	C1686(2S)	2058	C1815Y(KOREA)	2009	C1992	1617	C2216	2009	C2720	2009
C1416A	1617	C1627-O(JAPAN)	2009	C1686B	2058	C1818	2041	C1993	1617	C2260	2041	C2724	2009
C1417(2S)	2016	C1627-Y	2009	C1686V	2058	C1826	2020	C1994	1617	C2261	2041	C2724-D	2009
C1417C	2016	C1627-YFA	2009	C1687(2S)	2058	C1826-0	2020	C1995	1617	C2262	2041	C2724-E	2009
C1417D(1)	2016	C1627A	2009	C1688(2S)	2058	C1826-O	2020	C1996	1617	C2263	2016	C2785	2009
C1417D(U)	2016	C1627AY	2009	C1707AH	1617	C1826-Y	2020	C1997	1617	C2274	2009	C2785(JAPAN)	2009
C1417F(2S)	2016	C1627Y	2009	C1707AHB	1617	C1826D	2020	C1998	2009	C2274E(JAPAN)	2009	C2785E	2009
C1417V(2S)	2016	C1627Y(JAPAN)	2009	C1707H	1617	C1826G	2020	C1999	2016	C2274K	2009	C2785F	2009
C1417VF	2016	C1632	2009	C1707HB	1617	C1826O	2020	C2000	2009	C2277	2009	C2785F(JAPAN)	2009
C1417VW(2S)	2016	C1633(2S)	2016	C1707HC	1617	C1826P	2020	C2000(2S)	2009	C2297	2020	C2785H	2009
C1417W(2S)	2016	C1634	2016	C1707HD	1617	C1826Q	2020	C2000L	2009	C2308	2009	C2785J	2009
C1418(2S)	2020	C1635	2030	C1709	2009	C1826R	2020	C2001	2009	C2308B	2009	C2785K	2009
C1419(2S)	2020	C1636	2016	C1730	2016	C1826Y	2020	C2001-L	2009	C2309	2016	C2786	2009

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C2786L	2009	C4033C	2058	C9082	2023	CA250	1104	CCS6168	1617	CD1126	1104	CD4066BCN	2466
C2787	2016	C4033D	2058	C9083	2023	CA324E	1711	CCS6168F	1617	CD1127	1104	CD4066BD	2466
C2818	2009	C4033E	2058	C9084	2023	CA324G	1711	CCS6168G	2030	CD1141	1104	CD4066BE	2466
C2818H	2009	C4033F	2058	C9085	2023	CA339	1712	CCS6225F	2016	CD1142	1104	CD4066BF	2466
C2839	2009	C4033G	2058	C9426	2058	CA339A	1712	CCS6226G	2016	CD1143	1104	CD4066BMJ	2466
C2839-D	2009	C4033GN	2058	C9634	2016	CA339AE	1712	CCS6227F	2016	CD1147	1104	CD4103	562
C2839D	2009	C4033H	2058	C10110	1104	CA339AG	1712	CCS6228F	2023	CD1148	1104	CD4106	563
C2839E	2009	C4033J	2058	C10159	1104	CA339E	1712	CCS6229H	2030	CD1149	1104	CD4109	564
C2840	2016	C4033K	2058	C10176	1104	CA339G	1712	CCS9016D	2016	CD1151	1104	CD4116	563
C2840D	2016	C4033L	2058	C10279-1	2016	CA555CE	1723	CCS9016E	2016	CD1224	1122	CD4117	563
C2884	2016	C4033M	2058	C10279-3	1617	CA555CG	1723	CCS9017	2016	CD3122	565	CD4118	563
C2901	2009	C4033OR	2058	C12712	2030	CA555E	1723	CCS9017G925	2016	CD4001	2401	CD4121	563
C2928	2055	C4033R	2058	C12923	2030	CA555G	1723	CCS9018E	1617	CD4001AD	2401	CD4122	563
C2960	2009	C4033X	2058	C12924	2030	CA723CE	1740	CCS9018F	2016	CD4001AE	2401	CD4627	561
C2960E	2009	C4033Y	2058	C12925	2009	CA723E	1740	CCS9018H924	2016	CD4001AF	2401	CD4735	561
C2960F	2009	C4116	2020	C12926	2030	CA741	007	CD-0000	1123	CD4001BCJ	2401	CD4739	562
C2960G	2009	C4116A	2020	C13390	2009	CA741C	007	CD0000	1123	CD4001BCN	2401	CD4742	563
C2981	2062	C4116B	2020	C13391	2009	CA741CE	007	CD-0000N	1123	CD4001BD	2401	CD4744	564
C3000P	1801	C4116C	2020	C13391A	2009	CA741CG	007	CD000	1123	CD4001BE	2401	CD4765	562
C3001P	1801	C4116D	2020	C13392	2030	CA741CS	007	CD0014	1122	CD4001BF	2401	CD4765A	562
C3004P	1802	C4116E	2020	C13393	2030	CA741E	007	CD0014(MORSE)	1122	CD4001BMJ	2401	CD4766	562
C3114T(JAPAN)	2009	C4116F	2020	C13394	2030	CA741G	007	CD-0014N	1123	CD4001BMW	2401	CD4766A	562
C3141	1122	C4116G	2020	C13398	2030	CA1020A	1104	CD0014NA	1617	CD4001CJ	2401	CD4767	562
C3142	1104	C4116GN	2020	C13901	1617	CA1458	038	CD0014NG	1617	CD4001CN	2401	CD4767A	562
C3143	1104	C4116H	2020	C14256	2009	CA1458E	038	CD0015N	1617	CD4001MJ	2401	CD4768	562
C3144	1102	C4116J	2020	C21382	1104	CA1458F	038	CD-0021	1122	CD4001MW	2401	CD4770	562
C3214	2055	C4116K	2020	C21383	562	CA1458G	038	CD0021	1617	CD4001UBD	2401	CD4770A	562
C3720	2058	C4116L	2020	C21480	1123	CA1458S	038	CD-0033	561	CD4001UBE	2401	CD4771	562
C3720A	2058	C4116M	2020	C36578	2016	CA1558E	038	CD0033	561	CD4001UBF	2401	CD4771A	562
C3720B	2058	C4116OR	2020	C36579	2030	CA2002	703	CD0057	1122	CD4009AE	2449	CD4772	562
C3720C	2058	C4116R	2020	C36580	1617	CA2002M	703	CD-05	1104	CD4009CJ	2449	CD4772A	562
C3720D	2058	C4116X	2020	C-36582	2035	CA2002V	703	CD05	1104	CD4009CN	2449	CD4773	562
C3720F	2058	C4116Y	2020	C51909B	2023	CA2004	703	CD-07	1101	CD4011	2411	CD4773A	562
C3720G	2058	C-4401	1122	C139000	2030	CA3741CE	007	CD07	1101	CD4011AD	2411	CD5234B	561
C3720GN	2058	C4558C	038	C139000A	2030	CA3741E	007	CD09	1104 N7	CD4011AE	2411	CD5235B	561
C3720H	2058	C5005	1123	C248507	1104	CA6664	1104	CD-2	1104	CD4011AF	2411	CD5239B	562
C3720J	2058	C5120	2017	C523383	2009	CA6665	1104	CD-2N	1104	CD4011BCJ	2411	CD5242B	563
C3720K	2058	C5130	2017	C53004T-1	1104	CA7248	1104	CD-4	1104	CD4011BCN	2411	CD5245B	564
C3720L	2058	C5430OR	2058	C1107832P6	1101	CA8314	1104	CD-20	1122	CD4011BD	2411	CD5341B	561
C3720OR	2058	C6015	562	C2475078-3	2016	CAC5028A	2016	CD31-00006	565	CD4011BE	2411	CD5346B	562
C3720R	2058	C6015A	562	C2485076-3	2030	CB5	1104	CD31-00008	561	CD4011BF	2411	CD5349B	563
C3720X	2058	C6018	563	C2485077-2	2030	CB10	1104	CD31-00012	562	CD4011BMJ	2411	CD5645	1122
C3720Y	2058	C6018A	563	C2485078-1	2016	CB20	1104	CD31-00015	563	CD4011BMW	2411	CD8000	1617
C3800(TRANS)	2058	C6020	564	C2485079-1	2016	CB50	1104	CD31-00017	564	CD4011CJ	2411	CD-8457	1104
C3800A(TRANS)	2058	C6020A	564	CA-092	562	CB100	1114	CD31-10365	564	CD4011CN	2411	CD8457	1122
C3800B(TRANS)	2058	C6052P	007	CA10	1104	CB106	1123	CD31-12015	561	CD4011MJ	2411	CD8547	1122
C3800C	2058	C6052P(HEP)	007	CA20	1104	CB150	1104	CD31-12019	562	CD4011MW	2411	CD12000	1617
C3800D	2058	C6102P	038	CA50	1104	CB163	1123	CD31-12022	563	CD4011UBD	2411	CD13332	1104
C3800E	2058	C6102P(HEP)	038	CA-90	1123	CB200	1104	CD31-12024	564	CD4011UBE	2411	CD13333	1102
C3800F	2058	C6106	565	CA90	1122	CB246	1617	CD31-12039	562	CD4011UBF	2411	CD13334	1102
C3800G	2058	C6106A	565	CA100	1104	CB250	1104	CD32-12049	562	CD4013	2413	CD13335	1104
C3800GN	2058	C6107	565	CA102BA	1104	CB-393	1123	CD32-12052	563	CD4013AD	2413	CD13336	1102
C3800H	2058	C6107A	565	CA102DA	1104	CB393	1123	CD32-12054	564	CD4013AE	2413	CD13337	1104
C3800J	2058	C6109	561	CA102FA	1104	CC102BA	1104	CD-37	1122	CD4013AF	2413	CD13338	1102
C3800K	2058	C6109A	561	CA102HA	1104	CC102DA	1104	CD37	1122	CD4013BCJ	2413	CD13339	1102
C3800L	2058	C6113P	1771	CA102MA	1104	CC102FA	1104	CD-37A	1122	CD4013BCN	2413	CD-84857	1122
C3800M	2058	C6114P	1772	CA102PA	1114	CC102HA	1104	CD37A	1122	CD4013BD	2413	CD86003	1122
C3800OR	2058	C6115	562	CA102RA	1114	CC102KA	1104	CD37A2	1104	CD4013BE	2413	CD860011	1122
C3800P	1808	C6115A	562	CA102VA	1114	CC102MA	1104	CD62	561	CD4013BF	2413	CD860037	1122
C3800R	2058	C6118	563	CA124E	1711	CC102PA	1114	CD91	562	CD4013BMJ	2413	CD3122055	562
C3800X	2058	C6118A	563	CA139AE	1712	CC102RA	1114	CD101	1123	CD4013BMW	2413	CDC86X7-5	1617
C3800Y	2058	C6120	564	CA139F	1712	CC102VA	1114	CD753A	561	CD4017	2417	CDC430	1617
C3854	2016	C6130P	1723	CA139G	1712	CC152AA	1114	CD759A	563	CD4017AD	2417	CDC496	2023
C3940	2058	C6131P	1723	CA150	1104	CC152BA	1114	CD821	561	CD4017AE	2417	CDC587	2030
C3940A	2058	C6391	1101	CA152AA	1114	CC152CA	1114	CD821A	561	CD4017AF	2417	CDC731	2035
C3940B	2058	C6391A	1101	CA152BA	1114	CC152DA	1114	CD823	561	CD4017BCJ	2417	CDC745	2030
C3940C	2058	C6644H(HEP)	2016	CA152CA	1114	CC152EA	1114	CD823A	561	CD4017BCN	2417	CDC746	1617
C3940D	2058	C6690	2035	CA152DA	1114	CC152FA	1114	CD825	561	CD4017BD	2417	CDC12013C	1617
C3940E	2058	C6691	2035	CA152EA	1114	CC152GA	1114	CD825A	561	CD4017BE	2417	CDC2010	1617
C3940F	2058	C6692	2035	CA152FA	1114	CC152HA	1114	CD827	561	CD4017BF	2417	CDC2010D	1617
C3940G	2058	C7076	2016	CA152GA	1114	CC152KA	1114	CD827A	561	CD4017BMJ	2417	CDC2510C-G	1617
C3940GN	2058	C7400P	1801	CA152HA	1114	CC152MA	1114	CD829	561	CD4017BMW	2417	CDC4023A130	1617
C3940H	2058	C7400P(HEP)	1801	CA152KA	1114	CC152PA	1114	CD829A	561	CD4049AD	2449	CDC5000	2016
C3940J	2058	C7401P	1801	CA152MA	1114	CC152RA	1114	CD963B	563	CD4049AE	2449	CDC5000-1B	2016
C3940K	2058	C7401P(HEP)	1801	CA152PA	1114	CC152TA	1114	CD965B	564	CD4049AF	2449	CDC5008	2030
C3940L	2058	C7404P	1802	CA152RA	1114	CC152VA	1114	CD1111	1104	CD4049CJ	2449	CDC5028A	2030
C3940M	2058	C7408P	1822	CA152TA	1114	CC1168F	1617	CD1112	1104	CD4049CN	2449	CDC5038A	2016
C3940OR	2058	C7408P(HEP)	1822	CA152VA	1114	CC5901BF	2009	CD1113	1104	CD4049MJ	2449	CDC5071A	2016
C3940R	2058	C7447AP	1805	CA200	1104	CCJ5212	2009	CD1114	1104	CD4049UBD	2449	CDC5075B	2016
C3940X	2058	C7490AP	1808	CA224E	1711	CCS1235G	1617	CD1115	1104	CD4049UBE	2449	CDC8000	1617
C3940Y	2058	C7490P(HEP)	1808	CA224G	1711	CCS2001H	2009	CD1116	1104	CD4049UBF	2449	CDC-8000-1	2009
C4011	561	C8290	2009	CA239	1712	CCS2004B	2016	CD1117	1104	CD4066	2466	CDC8000-1	2030
C4015	562	C9011E	2009	CA239A	1712	CCS2005B	2023	CD1121	1104	CD4066AD	2466	CDC8000-1B	1617
C4018	563	C9011F	2009	CA239AE	1712	CCS-2006D	2009	CD1122	1104	CD4066AE	2466	CDC8000-1C	2030
C4020	564	C9011H	2009	CA239AG	1712	CCS2006D	2016	CD1123	1104	CD4066AF	2466	CDC8000-CM	2030
C4033A	2058	C9014A	2009	CA239E	1712	CCS2008F015	2016	CD1124	1104	CD4066B	2466	CDC-8001	1617
C4033B	2058	C9014A(KOREA)	2009	CA239G	1712	CCS4004	1617	CD1125	1104	CD4066BCJ	2466	CDC8002	2030

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
CDC8002-1	2030	CDQ10052	2030	CER500B	1104	CGD1029	1123	CIL532	2016	CO49	1104	CR/E	1104
CDC8011B	1617	CDQ10053	2030	CER500C	1104	CGE-60	2009	CIL533	2016	CO410V	1114	CR0000	1123
CDC8021	1617	CDQ10057	2030	CER670	1104	CGE-61	2009	CJ5201	1617	CO510	1114	CR02AM	1067
CDC8054	1617	CDQ10058	2030	CER670A	1104	CGE-62	2016	CJ5202	1617	CO-14348	1770	CR02AM-1	1067
CDC8201	2009	CDR-2	1104	CER670B	1104	CGE-66	2020	CJ5203	1617	COD1-6045	1104	CR02AM1	1067
CDC8457	1122	CDR-4	1104	CER670C	1104	CGE-69	2027	CJ-5206	1617	COD1-6046	1104	CR02AM-4	1067
CDC9000-1	2023	CDS-16B	1104	CER680	1104	CGE-500	1122	CJ5206	2009	COD1-6047	1104	CR02AM4	1067
CDC9000-1D	2023	CDZ-9V	562	CER680A	1104	CH119D	1104	CJ-5207	1617	COD1-6048	1104	CR02AN4	1067
CDC9002-1C	2030	CDZ-C9V	562	CER680B	1104	CH302MA	1114	CJ5207	2009	COD1531	1104	CR1-051C	1067
CDC9002-18	2030	CE0398/7839	1104	CER680C	1104	CH302PA	1114	CJ-5208	1617	COD1532	1104	CR1-051CA	1067
CDC10000-1E	2023	CE0398-7839	1144	CER690	1104	CH302RA	1114	CJ-5210	2030	COD1533	1104	CR1-051CB	1067
CDC12000	2009	CE0495/7839	1123	CER690A	1104	CH753	561	CJ5210	2030	COD1534	1104	CR1-101C	1067
CDC12000-1C	1617	CE37	1122	CER690B	1104	CH757	562	CJ-5211	2009	COD1535	1104	CR1-101CA	1067
CDC12018C	1617	CE401	1104	CER690C	1104	CH759	563	CJ5211	1617	COD1536	1104	CR1-201C	1067
CDC12030B	2016	CE402	1104	CER700	1104	CH821	561	CJ-5212	2009	COD1537	1114	CR1-201CA	1067
CDC12077F	1617	CE403	1104	CER700A	1104	CH823	561	CJ5212	1617	COD1538	1114	CR3AMZ	1020
CDC12108	2009	CE404	1104	CER700B	1104	CH825	561	CJ5213	2030	COD1551	1104	CR3AMZ-8	1020
CDC12112C	2016	CE405	1104	CER700C	1104	CH827	561	CJ5214	2030	COD1552	1104	CR3AMZ8	1020
CDC12112D	2016	CE406	1104	CER710	1104	CH829	561	CJ5215	2030	COD1553	1104	CR103A	1067
CDC12112E	2016	CE407	1114	CER710A	1104	CH963	563	CK419	1617	COD1554	1104	CR103B	1067
CDC12112F	2016	CE408	1114	CER710B	1104	CH965	564	CK420	1617	COD1555	1104	CR103C	1020
CDC13000	2009	CE409	1114	CER710C	1104	CH4103	562	CK421	1617	COD1556	1104	CR103D	1020
CDC-13000-1	1617	CE410	1114	CER720	1114	CH4106	563	CK422	1617	COD1575	1104	CR103Y	1067
CDC13000-1	2009	CE501	1104	CER720A	1114	CH4109	564	CK474	1617	COD1611	1104	CR103YY	1067
CDC13000-1B	1617	CE502	1104	CER720B	1114	CH4627	561	CK475	1617	COD1612	1104	CR203A	1067
CDC13000-1C	1617	CE503	1104	CER720C	1114	CH4735	561	CK476	1617	COD1613	1104	CR203B	1067
CDC13000-1D	2009	CE504	1104	CER730	1114	CH4739	562	CK477	1617	COD1614	1104	CR203C	1020
CDC13000-18	1617	CE505	1104	CER730A	1114	CH4742	563	CK705	1123	COD1615	1104	CR203D	1020
CDC13000C	2009	CE506	1104	CER730B	1114	CH4744	564	CK-706	1123	COD1616	1104	CR203Y	1067
CDC13016A	1617	CE507	1114	CER730C	1114	CH5234	561	CK706	1123	COD1617	1114	CR203YY	1067
CDC13019B	2009	CE508	1114	CF-092	562	CH5239	562	CK706-P	1123	COD1618	1114	CR353	1122
CDC13500-1	1617	CE509	1114	CF102DA	1104	CH5242	563	CK706A	1123	COD11556	1104	CR801	1104
CDC15018	2009	CE510	1114	CF102PA	1114	CH5245	564	CK706P	1123	COD15524	1104	CR951	1114
CDC25100-6	1617	CE4001B	2009	CF102RA	1114	CHA4Z5.1	565	CK715	1123	COD15534	1104	CR952	1114
CDC25100-G	2016	CE4001C	2009	CF102VA	1114	CHAZ6.2	561	CK942	2023	COD15544	1104	CR953	1114
CDC60132	2009	CE4003D	2030	CF152AA	1114	CHAZ6.2A	561	CL05	1104	COD15564	1104	CR954	1114
CDC120700	2030	CE4003E	2009	CF152BA	1114	CHAZ62.A	561	CL010	1104	COD16047	1104	CR955	1114
CDC4306813	1617	CE4004C	2009	CF152DA	1114	CHMZ5.1	565	CL025	1104	CODI537	1114	CR956	563
CDG-00	1122	CE4005C	2023	CF152FA	1114	CI2711	1617	CL1	1104	CODI538	1114	CR1034	1104
CDG00	1122	CE4008B	2058	CF152HA	1114	CI2712	1617	CL1.5	1104	CODI617	1114	CR1035	1104
CDG005	1104	CE4008C	2058	CF152KA	1114	CI2713	1617	CL2	1104	CODI1531	1104	CRD821	561
CDG025	1122	CE4008D	2058	CF152MA	1114	CI2714	1617	CL3	1104	CODI6045	1104	CRD823	561
CDG-21	1122	CE4008E	2058	CF152PA	1114	CI2923	1617	CL4	1104	CODI6047	1104	CRD825	561
CDG21	1122	CE4010D	2016	CF152RA	1114	CI2924	1617	CL5	1104	CODI11556	1104	CRD827	561
CDG-22	1122	CE4010E	2016	CF152VA	1114	CI2925	1617	CL6	1104	CODI15524	1104	CRD829	561
CDG22	1122	CE4012D	2023	CF-1295H	2030	CI2926	1617	CL7	1104	CODI15534	1104	CRD921	561
CDG-24	1122	CE4013E	2009	CFA9.1D	562	CI3390	1617	CL8	1104	CODI15544	1104	CRD923	561
CDG24	1122	CEC6050	1104	CFA9.1D5	562	CI3391	1617	CL166C	1617	CODI15564	1104	CRD925	561
CDG24/3490	1122	CER6B	1104	CFA9.1D10	562	CI3391A	1617	CL166C,D	2009	CP102	1114	CRD927	561
CDG27	1122	CER67	1104	CFA12D	563	CI3392	1617	CL166D	1617	CP102BA	1104	CS11C	1067
CDJ-00	1122	CER67A	1104	CFA12D5	563	CI3393	1617	CLEAK-05401	2068	CP102DA	1104	CS-16E	1104
CDK-4	1104	CER67B	1104	CFA12D10	563	CI3394	1617	CLEAK-06102	1251	CP102FA	1104	CS16E	1104
CDQ1018	2009	CER67C	1104	CFA15D	564	CI3395	1617	CLEAK-06201	1251	CP102HA	1104	CS360	1617
CDQ1021	2009	CER67F	1101	CFA15D5	564	CI3396	1617	CLEAK-12004	1251	CP102KA	1104	CS-460B	1617
CDQ1024	2009	CER68	1104	CFA15D10	564	CI3397	1617	CLEAK-12004(,2764)		CP102MA	1104	CS-461B	2016
CDQ10001	1617	CER68A	1104	CFB9.1D	562	CI3398	1617		1251	CP102PA	1114	CS696	1617
CDQ10002	1617	CER68B	1104	CFB9.1D5	562	CI3402	1617	CLM05	1104	CP102RA	1114	CS697	1617
CDQ10003	1617	CER68C	1104	CFB9.1D10	562	CI3403	1617	CLM1	1104	CP102VA	1114	CS706	1617
CDQ10004	1617	CER-69	1104	CFB12D	563	CI3404	1617	CLVA62A	561	CP103	1114	CS718	1617
CDQ10005	1617	CER69	1104	CFB12D5	563	CI3405	1617	CLVA91A	562	CP152AA	1114	CS718A	1617
CDQ10006	1617	CER69A	1104	CFB12D10	563	CI3414	2009	CM0770	2030	CP152BA	1114	CS720A	1617
CDQ10007	1617	CER69B	1104	CFB15D	564	CI3415	1617	CM4-284B	041	CP152CA	1114	CS-901ZHF	2023
CDQ10008	1617	CER69C	1104	CFB15D5	564	CI3416	1617	CM4-284B-2	041	CP152DA	1114	CS901ZHF	2023
CDQ10009	1617	CER70	1104	CFB15D10	564	CI3417	1617	CM-12	1122	CP152EA	1114	CS918	2016
CDQ10010	1617	CER70A	1104	CFC9.1D	562	CI3704	2030	CM4001	2401	CP152FA	1114	CS925M	1617
CDQ10011	2030	CER70B	1104	CFC9.1D5	562	CI3705	2030	CM4001AD	2401	CP152GA	1114	CS929	2016
CDQ10012	2030	CER70C	1104	CFC9.1D10	562	CI3706	2030	CM4001AE	2401	CP152HA	1114	CS930	2016
CDQ10014	2030	CER-71	1104	CFC12D	563	CI3900	1617	CM4009AE	2449	CP152KA	1114	CS956	2030
CDQ10016	1617	CER71	1104	CFC12D5	563	CI3900A	1617	CM4011	2411	CP152MA	1114	CS1014	2016
CDQ10017	1617	CER71A	1104	CFC12D10	563	CI3901	1617	CM4011AD	2411	CP152PA	1114	CS1014D	2016
CDQ10018	1617	CER71B	1104	CFC15D	564	CI4256	1617	CM4011AE	2411	CP152RA	1114	CS1014E	2016
CDQ10019	1617	CER71C	1104	CFC15D5	564	CI4424	1617	CM4013	2413	CP152TA	1114	CS1014F	2016
CDQ10020	1617	CER-71CA	1104	CFC15D10	564	CI4425	1617	CM4013AD	2413	CP152VA	1114	CS1014G	2016
CDQ10021	1617	CER72	1114	CG1	1617	CIJ70645	1123	CM4013AE	2413	CP400	2041	CS1014H	2016
CDQ10022	1617	CER72A	1114	CG12-E	1123	CIL194	2058	CM4017	2417	CP401	2041	CS1018	2016
CDQ10023	1617	CER72B	1114	CG12E	1123	CIL194A	2058	CM4017AD	2417	CP404	2041	CS1068	2009
CDQ10024	1617	CER72C	1114	CG61H	1123	CIL194B	2058	CM4017AE	2417	CP405	2041	CS1120C	2016
CDQ10025	1617	CER72D	1114	CG62H	1123	CIL195	2058	CM4049	2449	CP406	2041	CS-1120C1	2009
CDQ10026	1617	CER72F	1114	CG63H	1123	CIL511	2016	CM4049AD	2449	CP407	2041	CS-1120C2	2009
CDQ10027	1617	CER73	1114	CG64H	1123	CIL512	2016	CM4049AE	2449	CP408	2041	CS1120D	2016
CDQ10028	1617	CER73A	1114	CG65H	1123	CIL513	2016	CM4066AD	2466	CP409	2030	CS-1120D1	2009
CDQ10032	1617	CER73B	1114	CG66H	1123	CIL521	2016	CM4066AE	2466	CP701	2020	CS1120E	2016
CDQ10033	2030	CER73C	1114	CG74H	1123	CIL522	2016	CM7163	2009	CP702	2020	CS1120F	2016
CDQ10035	1617	CER73D	1114	CG86H	1123	CIL523	2016	CM8470	1104	CP704	2020	CS-1120H	2009
CDQ10036	1617	CER73F	1114	CGD462	1123	CIL-531	2009	CMO770	2009	CP3212055	562	CS1120H	2016
CDQ10048	2030	CER500	1104	CGD591	1123	CIL531	2016	CN2484	2030	CQX21	036	CS-1120I	2009
CDQ10051	2030	CER500A	1104	CGD685	1123	CIL-532	2009	CO6C	1104	CQY65	026	CS1120I	2009

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CS1121G	2023
CS1129E	2030
CS1166	1617
CS1166D	2009
CS1166D-G	2009
CS1166E	1617
CS1166F	2009
CS1166G	1617
CS1166H	1617
CS1166H/F	1617
CS1168E	2016
CS1168F	1617
CS1168G	2009
CS1168H	1617
CS1170F	2023
CS1221F	2023
CS1225D	2016
CS1225E	2016
CS1225F	2016
CS1225H	2030
CS1226	2016
CS1226E	2016
CS1226F	2016
CS1226G	2016
CS1226H	2016
CS1226N	2009
CS1227	2016
CS1227D	2016
CS1227E	2016
CS1227F	2016
CS1227G	2016
CS1228	2023
CS1228E	2023
CS1229	1617
CS1229A	1617
CS1229B	1617
CS1229C	1617
CS1229D	1617
CS1229E	1617
CS1229F	1617
CS1229G	1617
CS1229H	1617
CS1229K	2030
CS1229N	2030
CS1235C	1617
CS1235E	1617
CS-1235F	1617
CS1235G	1617
CS1236D	1617
CS1236H	1617
CS1238	2016
CS-1238F	2009
CS1238F	1617
CS1238G	2016
CS1238H	2016
CS1238I	2016
CS-1238P	2009
CS1238P	1617
CS1243E	2016
CS1243H	2016
CS1244H	2016
CS1244J	2016
CS-1244K	2009
CS1244X	2016
CS1245F	1617
CS1245G	1617
CS1245H	1617
CS1245I	2009
CS1245T	1617
CS1248	2030
CS1248I	2030
CS1248T	2030
CS1250E	1617
CS1250F	2030
CS1251E	2023
CS1251F	2023
CS1252B	2016
CS1252C	2016
CS1255H	2030
CS1257	1617
CS-1258	2009
CS1258	1617
CS-1259	2009
CS1259	1617
CS1283A	1617
CS1284B	2016
CS1284F	2016
CS1284G	2016
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CS1286	2009
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CXL5018	562	CZ939B	562	CZG4.7D5	565	D2G	563	D13TDS442X	1122	D28H	2020	D39J1	2023
CXL5021	563	CZ4565	561	CZG4.7D10	565	D2G-1	563	D13TGMA010	1122	D28J	2020	D39J1-6	2009
CXL5024	564	CZ4565A	561	CZG5.1D	565	D2G-2	563	D15A	1104	D28K	2020	D39J2	2023
CXL5068	565	CZ4566	561	CZG5.1D5	565	D2G-3	563	D15C	1104	D28L	2020	D39J3	2023
CXL5069	565	CZ4566A	561	CZG5.1D10	565	D2G-4	563	D16E7	1617	D28M	2020	D39J4	2023
CXL5070	561	CZ4567	561	CZG6.2D	561	D2H	1104	D16E9	1617	D28OR	2020	D39J5	2023
CXL5073	562	CZ4567A	561	CZG6.2D5	561	D2J	1104	D16EC18	1617	D28R	2020	D39J6	2023
CXL5400	1067	CZ4568	561	CZG6.2D10	561	D2L0040070	1114	D16G6	2016	D28T011E10	1104	D40E1	2017
CXL5401	1067	CZ4568A	561	CZG9.1D	562	D2L0TVR06G	1104	D16K1	2016	D28X	2020	D40E7	2017
CXL5402	1067	CZ4569	561	CZG9.1D5	562	D2LT040070	1114	D16K2	2016	D28Y	2020	D42C1	2017
CXL5403	1067	CZ4569A	561	CZG9.1D10	562	D2R31	1123	D16K3	2016	D29	2020	D42C2	2017
CXL5404	1067	CZ4570	561	CZG12D	563	D2R38	1617	D16K4	2016	D29A	2020	D42C3	2017
CXL5452	1067	CZ4570A	561	CZG12D5	563	D2T2904	2023	D18	1104	D29A4	2023	D42C4	2017
CXL5453	1067	CZ4571	561	CZG12D10	563	D2T2904A	2023	D22N	1114	D29A5	2023	D42C5	2017
CXL5454	1067	CZ4571A	561	D004	1104	D2T2905	2023	D23F130TAL	1104	D29A6	2023	D42C6	2017
CXL5455	1067	CZ4572	561	D006	2016	D2T2905A	2023	D23FDFA05G	1104	D29A9	2023	D42C7	2017
CXL5456	1020	CZ4572A	561	D009	2058	D2U	1123	D23FDFA05G		D29B	2020	D42C8	2017
CXL5457	1020	CZ4573	561	D-00169C	1123	D2Z	562	(,DFA05G-KBG)	1104	D29E	2020	D42C9	2017
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CXL5650	1000	CZA9.1D10	562	D-00469C	561	D3R	1104	D24A3391A	2016	D29E7	2023	D44A10	2020
CXL5651	1000	CZA12D	563	D-00484R	1123	D3R38	1104	D24A3392	2016	D29E8	2023	D44C1	2020
CXL5652	1000	CZA12D5	563	D-00569C	562	D3R39	1104	D24A3393	2016	D29F	2020	D44C2	2020
CXL5662	1000	CZA12D10	563	D-00669C	1123	D3U	1104	D24A3394	2016	D29F1	2023	D44C3	2020
CXL5800	1114	CZA15D	564	D01-100	1104	D3V	1104	D24A3900	2016	D29F2	2023	D44C4	2020
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CXL5802	1114	CZA15D10	564	D02Z62W	561	D3Y	561	D24F00V09G	1104	D29F4	2023	D44C6	2020
CXL5803	1114	CZAJ102	1104	D-05	1104	D3Z	1104	D25T5566B0	1104	D29F5	2023	D44C7	2020
CXL5804	1114	CZB9.1D	562	D05	1104	D4C28	2030	D26B1	2016	D29F6	2023	D44C8	2020
CXL5805	1114	CZB9.1D5	562	D05G	1104	D4C29	2030	D26B2	2016	D29F7	2023	D44C9	2020
CXL5806	1114	CZB9.1D10	562	D010	1123	D4C30	2030	D26C1	2016	D29GN	2020	D44C10	2020
CXL5808	1114	CZB12D	563	D031(CHAN.MASTER)		D4C31	2030	D26C2	2016	D29J	2020	D44C11	2020
CXL5809	1114	CZB12D5	563		2009	D4D20	2030	D26C3	2016	D29K	2020	D44C12	2020
CY40	1104	CZB12D10	563	D048	1617	D4D21	2030	D26C4	2016	D29L	2020	D44C88	2017
CY50	1104	CZB15D	564	D053	1617	D4D22	2016	D26C5	2016	D29M	2020	D44D1	2068
CY80	1114	CZB15D5	564	D058	2016	D4D24	1617	D26E-1	2016	D29OR	2020	D44D2	2068
CY100	1114	CZB15D10	564	D069	1617	D4D25	1617	D26E-2	2016	D29R	2020	D44D3	2068
CZ-092	562	CZC9.1D	562	D072	2058	D4D26	1617	D26E2	2016	D29X	2020	D44D4	2068
CZ092	562	CZC9.1D5	562	D087	2016	D4L	1114	D26E-3	2016	D29Y	2020	D44D5	2068
CZ-094	562	CZC9.1D10	562	D088	2016	D4M	1104	D26E-4	2016	D30A1	2023	D44D6	2068
CZ094	562	CZC12D	563	D093	1123	D4N	563	D26E-5	2016	D30A2	2023	D44H7	2020
CZ4.7	565	CZC12D5	563	D0123WX	1000	D4R	1123	D26E-6	2016	D30A3	2023	D44H10	2020
CZ5.1	565	CZC12D10	563	D1-8	562	D4R26	1104	D26E-7	2016	D30A4	2023	D44H11	2020
CZ6.2	561	CZC15D	564	D1-26	1104	D5	1101	D26G-1	2016	D30A5	2023	D44M1	2020
CZ9.1	562	CZC15D5	564	D1-52S	1104	D5B	564	D26G1	2016	D32K1	2009	D44M2	2020
CZ9.1A	562	CZC15D10	564	D1D	1114	D5G	1104	D27C1	2020	D32K2	2009	D44M4	2020
CZ9.1B	562	CZD012	563	D1E	1104	D5H	1104	D27C2	2020	D32P1	2016	D44M5	2020
CZ9.1C	562	CZD012-5	563	D1G	562	D5R35	1104	D27C3	2020	D32P2	2016	D44M7	2020
CZ12	563	CZD015	564	D1H	1104	D5R39	1104	D27C4	2020	D32P3	2016	D44M8	2020
CZ12A	563	CZD015-5	564	D1I0A243A0	1122	D5V	1122	D28	1104	D32P4	2016	D44M10	2020
CZ12B	563	CZD9.1D	562	D1J	1104	D5W	561	D28(TRANS)	2020	D32S6	2068	D44M11	2020
CZ12C	563	CZD9.1D5	562	D1J70542	1123	D6	1101	D28A	2020	D32S7	2068	D44VH1	2020
CZ12D	563	CZD9.1D10	562	D1J70543	1123	D6HZ	1104	D28A1	2020	D32S10	2068	D44VH4	2020
CZ15	564	CZD12D	563	D1J70544	1104	D6.2	561	D28A2	2020	D32W12	2009	D44VH7	2020
CZ15A	564	CZD12D5	563	D1J70545	1122	D7	1101	D28A3	2020	D33(2S)	2016	D44VH10	2020
CZ15B	564	CZD12D10	563	D1K	1114	D7A30	2030	D28A4	2020	D33A	2016	D44VM1	2020
CZ15C	564	CZD15D	564	D1K20	1104	D7A31	2030	D28A5	2020	D33B	2016	D44VM4	2020
CZ15D	564	CZD15D5	564	D1K40	1104	D7A32	2030	D28A6	2020	D33C(2S)	2016	D44VM7	2020
CZ821	561	CZD15D10	564	D1L	1104	D7E	1122	D28A7	2020	D33D	2016	D44VM10	2020
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CZ822	561	CZE9.1D5	562	D1R5GZ61	1114	D8HZ	1114	D28A10	2020	D33E	2016	D45CZ	1104
CZ823	561	CZE9.1D10	562	D1R5GZ61FA	1114	D8U	562	D28A12	2020	D33F	2016	D48	1104
CZ823A	561	CZE12D	563	D1R20Z	1102	D9B	1123	D28A13	2020	D33G	2016	D48(TRANS)	2020
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CZ825	561	CZE12D10	563	D1R40Z	1103	D9E	1123	D28C	2020	D33H	2016	D49A	2020
CZ825A	561	CZE15D	564	D1S34	1123	D9I	1123	D28D	2020	D33J	2016	D49B	2020
CZ827	561	CZE15D5	564	D1S1553	1122	D9K	1123	D28D(2S)	2020	D33K	2016	D49C	2020
CZ827A	561	CZE15D10	564	D1S1554	1122	D9L	1123	D28D1	2020	D33L	2016	D49D	2020
CZ829	561	CZF4.7D	565	D1S1555	1122	D9M	562	D28D2	2020	D33OR	2016	D49E	2020
CZ829A	561	CZF4.7D5	565	D1S1555(,1S1555)	1122	D9SZ	1123	D28D3	2020	D33X	2016	D49F	2020
CZ935	562	CZF4.7D10	565	D1S1887FA	1104	D9V	1123	D28D4	2020	D33Y	2016	D49G	2020
CZ935A	562	CZF5.1D	565	D-1S2473	1122	D10B1051	2016	D28D5	2020	D34J1	2023	D49GN	2020
CZ935B	562	CZF5.1D5	565	D-1SS133	1122	D10B1055	2016	D28D7	2020	D34J2	2023	D49J	2020
CZ936	562	CZF5.1D10	565	D1Y	2016	D10G1051	2016	D28D8	2017	D34J4	2023	D49K	2020
CZ936A	562	CZF6.2D	561	D1Z	564	D10G1052	2016	D28D10	2020	D34J5	2023	D49L	2020
CZ936B	562	CZF6.2D5	561	D1ZBLU	564	D11C1B1	2030	D28E	2020	D38H1	2009	D49M	2020
CZ937	562	CZF6.2D10	561	D1ZYEL	564	D11C1F1	2009	D28E(2S)	2020	D38H1-6	2009	D49OR	2020
CZ937A	562	CZF9.1D	562	D-2	1123	D11C2D1B20	2009	D28F	2020	D38H2	2009	D49R	2020
CZ937B	562	CZF9.1D5	562	D2-1	1104	D11C3B1	2030	D28F00BB4C	1104	D38H3	2009	D49X	2020
CZ938	562	CZF9.1D10	562	D2B000RH10	1104	D11C5B1	2030	D28F00BB40	1104	D38S1	2009	D49Y	2020
CZ938A	562	CZF12D	563	D2B000RU20	1104	D11C5F1	2009	D28F30DF20	1114	D38S5	2009	D50	1101
CZ938B	562	CZF12D5	563	D2BF00RU20	1104	D11C7B1	2030	D28G	2020	D38S8	2009	D52	2041
CZ939	562	CZF12D10	563	D2BFMI15MR	1104 N1	D11C10B1	2030	D28G10E100	1114	D38S9	2009	D56W1	2055
CZ939A	562	CZG4.7D	565	D2BFMI15MS	1104 N2	D11C11B1	2030	D28GN	2020	D38Y1-3	2009	D56W2	2055

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D65C	1104
D67(2S)	2041
D67B(2S)	2041
D67C(2S)	2041
D67D(2S)	2041
D67E(2S)	2041
D68	2041
D69(2S)	2041
D74(2S)	2009
D85C	1114
D90(2S)	2020
D90A	2020
D90B	2020
D90C	2020
D90D	2020
D90E	2020
D90F	2020
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D90GN	2020
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D90K	2020
D90L	2020
D90M	2020
D90OR	2020
D90X	2020
D90Y	2020
D91(2S)	2020
D91A	2020
D91B	2020
D91E	2020
D91F(2S)	2020
D91G	2020
D91GN	2020
D91H	2020
D91J	2020
D91L	2020
D91M	2020
D91OR	2020
D91R	2020
D91X	2020
D91Y	2020
D92T06R2B2	561
D93T04R7CX	565
D93T05R1CY	565
D93T05R1C0	565
D93T06R2CY	561
D93T06R200	561
D93T01200Y	563
D93T01200Y(,GZA12BT)	563
D97U06R20B	561
D100	1104
D105C	1114
D107	2041
D108	1114
D108(TRANS)	2041
D110	2041
D110-0	2041
D110-O(2S)	2041
D110-ORG	2041
D110-R(2S)	2041
D110-RED	2041
D110-Y(2S)	2041
D110-YEL	2041
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D110A243AC	1122
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D111-ORG	2041
D111-R(2S)	2041
D111-RED	2041
D111-Y(2S)	2041
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D116	2041
D118	2041
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D118R(2S)	2041
D118Y(2S)	2041
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D119-BL	2041
D119-BLU	2041
D119-R	2041
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D119-Y	2041
D119-YEL	2041
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D119B	2041
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D119R(2S)	2041
D119Y(2S)	2041
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D123	2020
D124(RECT.)	1104
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D130GMA010	1122
D133	2009
D133(CHAN.MASTER)	2016
D141	1617
D141(2S)	2020
D141(CHAN.MASTER)	2016
D141A	2020
D141B	2020
D141C	2020
D141E	2020
D141F	2020
D141G	2020
D141GN	2020
D141H	2020
D141H01(2S)	2020
D141J	2020
D141K	2020
D141L	2020
D141M	2020
D141OR	2020
D141R	2020
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D141Y	2020
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D146D	2020
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D146GN	2020
D146H	2020
D146J	2020
D146K	2020
D146L	2020
D146OR	2020
D146R	2020
D146UK(2S)	2020
D146VK	2020
D146X	2020
D146Y	2020
D147(2S)	2020
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D147F	2020
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D147R	2020
D147X	2020
D147Y	2020
D148	2020
D149	2030
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D154X	2020
D154Y	2020
D163(2S)	2041
D164(2S)	2041
D172	2041
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D172B	2041
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D175Y	2041
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D180A(2S)	2041
D180B(2S)	2041
D180C(2S)	2041
D180D(2S)	2041
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D182(2S)	2030
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D182B	2030
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D184H	2020
D184J	2020
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D184OR	2020
D184Y	2020
D185	2020
D188	2041
D188A(2S)	2041
D188B(2S)	2041
D188C(2S)	2041
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D188E	2041
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D188R	2041
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D189(2S)	2041
D189A(2S)	2041
D189B	2041
D189C	2041
D189D	2041
D189E	2041
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D189Y	2041
D199(2S)	2055
D200(IR)	1122
D200MP	1122
D200MP(IR)	1122
D204(2S)	2030
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D204BL	2030
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D204L(2S)	2030
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D204R	2030
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D205(2S)	2030
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D205M	2030
D205OR	2030
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D205Y	2030
D206	1122
D207(2S)	2041
D207A	2041
D211	2041
D211(2S)	2041
D211-OR	2041
D211A	2041
D211B	2041
D211C	2041
D211D	2041
D211E	2041
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D211Y	2041
D212(2S)	2041
D213(2S)	2041
D214	2041
D215(2S)	2030
D216	2030
D219(2S)	2030
D219A	2030
D219A(2S)	2030
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D219C	2030
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D220(TRANS)	2030
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D220A(2S)	2030
D220B	2030
D220B(2S)	2030
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D220K	2030
D220L	2030
D220M(2S)	2030
D220OR	2030
D220R	2030
D220X	2030
D220Y	2030
D221(2S)	2030
D221F	2030
D228(2S)	2009
D228F	2009
D228G	2009
D228GN	2009
D228H	2009
D228J	2009
D228K	2009
D228L	2009
D228M	2009
D228OR	2009
D228R	2009
D228X	2009
D228Y	2009
D230DFA05G	1104
D234(2S)	2020
D234-0(2S)	2020
D234-O(2S)	2020
D234-ORG	2020
D234-R(2S)	2020
D234-RED	2020
D234-Y(2S)	2020
D234-YEL	2020
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D234B	2020
D234C	2020
D234D	2020
D234E	2020
D234F	2020
D234G	2020
D234GA	2020
D234GN	2020
D234G-O	2020
D234G-R	2020
D234GR	2020
D234G-Y	2020
D234H	2020
D234J	2020
D234K	2020
D234L	2020
D234M	2020
D234N	2020
D234O	2020
D234OR	2020
D234R	2020
D234X	2020
D234Y	2020
D235(2S)	2020
D235-0(2S)	2020
D235-O(2S)	2020
D235-OR	2020
D235-ORG	2020
D235-R(2S)	2020
D235-RED	2020
D235-Y(2S)	2020
D235-YEL	2020
D235A	2020
D235B	2020
D235C	2020
D235D(2S)	2020
D235E	2020
D235F	2020
D235G(2S)	2020
D235GN	2020
D235G-O	2020
D235G-R	2020
D235G-Y	2020
D235H	2020
D235J	2020
D235L	2020
D235LBY	2020
D235M	2020
D235O	2020
D235OR	2020
D235R(2S)	2020
D235RED	2020
D235RY	2020
D235X	2020
D235Y(2S)	2020
D236(RECT.)	1171
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D242(2S)	2020
D242YLC	2020
D243(2S)	2020
D244	2020
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D257(2S)	2020
D258	2020
D259	2020
D288(2S)	2020
D288A(2S)	2020
D288B(2S)	2020
D288C(2S)	2020
D288K	2020
D288L(2S)	2020
D289(2S)	2020
D289A(2S)	2020
D289B(2S)	2020
D289C(2S)	2020
D292	2020
D292(CHAN.MASTER)	2016
D292-0	2020
D292A	2020
D292B	2020
D292BL	2020
D292C	2020
D292D	2020
D292E	2020
D292F	2020
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D292OR	2020
D292R	2020
D292X	2020
D292Y	2020
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D312L	2055
D312M	2055
D312X	2055
D312Y	2055
D313	2020
D313(JAPAN)	2020
D313A	2020
D313B	2020
D313C(2S)	2020
D313D(2S)	2020
D313DE	2020
D313E	2020
D313F(2S)	2020
D313G	2020
D313GN	2020
D313H	2020
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D314B	2020
D314C	2020
D314D	2020
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D314N	2020
D314R	2020
D314Y	2020
D315(2S)	2020
D315C	2020
D315D	2020
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D316	2041
D316-1	2041
D316-2	2041

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D317(2S)	2020	D356C	2020	D460	2068	D637QR	2009	D843	2020	D1276-LB	2068	DAAY004001	1122
D317A(2S)	2020	D356D	2020	D467	2009	D637R	2009	D849	2055	D1276A	2068	DAAY010092	562
D317AF	2020	D356E	2020	D467-C	2009	D637S	2009	D856	2020	D1276AP	2068	DAJ201	1122 N2
D317AP	2020	D357	2020	D467B	2009	D637T	2009	D856A	2020	D1276B	2068	DAN201	1122 N2
D317F(2S)	2020	D357C	2020	D467C	2009	D638	2009	D856B	2020	D1276LB	2068	DAN201VA	1122 N2
D317P(2S)	2020	D357D	2020	D467C(JAPAN)	2009	D638-R	2009	D856L	2020	D1276P	2068	DAN207-100	1102 N2
D318(2S)	2020	D357E	2020	D469	2041	D638P	2009	D856LB	2020	D1277B	2068	DAN207-200	1102 N2
D318-O	2020	D358	2020	D474K	2016	D638Q	2009	D856M	2020	D1277B(JAPAN)	2068	DAN207-400	1102 N2
D318A(2S)	2020	D358C	2020	D475	2020	D638R	2009	D856MLB	2020	D1301	2035	DAN208-100	1104 N2
D318B	2020	D358D	2020	D475A	2020	D638S	2009	D856O	2020	D1302	2035	DAN208-200	1114 N2
D318P	2020	D358E	2020	D476	2020	D639	2009	D856P	2020	D1303	2035	DAN211	1104 N2
D318Q	2020	D359(2S)	2020	D476A	2020	D639P	2009	D856Q	2020	D1318	2030	DANZ00600	1123
D322(2S)	2041	D359C(2S)	2020	D476AKB	2020	D639Q	2009	D856R	2020	D1406	2020	DANZ006000	1123
D322A(2S)	2041	D359C2(2S)	2020	D476AKC	2020	D639R	2009	D857	2020	D1406-Y	2020	DANZ0060000	1123
D322B(2S)	2041	D359D(2S)	2020	D476B	2020	D639S	2009	D857A	2020	D1406GR	2020	DAP201	1122 N1
D322C(2S)	2041	D359D1(2S)	2020	D476C	2020	D639T	2009	D857B	2020	D1406Y(JAPAN)	2020	DAP201VA	1122 N2
D323(2S)	2041	D359D2(2S)	2020	D476D	2020	D649	2055	D864K	2068	D1420	2035	DAP207-100	1104 N1
D323A(2S)	2041	D360(2S)	2020	D476G	2020	D649Q	2055	D866	2020	D1421	2035	DAP207-200	1104 N1
D323B(2S)	2041	D360D(2S)	2020	D476KB	2020	D654	2030	D866A	2020	D1445	1104	DAP207-400	1104 N1
D323C(2S)	2041	D360E(2S)	2020	D476KC	2020	D655D(JAPAN)	1617	D866B	2020	D1666	2016	DAP208-100	1104 N1
D325(2S)	2017	D361	2020	D476O	2020	D661	2016	D866D	2020	D1894	2055	DAP208-200	1114 N1
D325-1	2017	D361C	2020	D476YL	2020	D661-R(JAPAN)	2016	D866P	2020	D2340	2020	DAP211	1104 N1
D325-OR	2017	D361D	2020	D477	2020	D661S	2016	D866Q	2020	D2350	2020	DASZ158800	1122
D325A	2017	D365	2020	D492	2041	D661T	2016	D866R	2020	D2600EF	1104	DB202	1104
D325B	2017	D365A	2020	D500	1104	D662	1617	D867	2041	D2764D	1251	DB204	1103
D325C(2S)	2017	D365B	2020	D513	2020	D664	2068	D878	2041	D3436	1104	DB206	1104
D325D(2S)	2017	D365H(2S)	2020	D517	2055	D671	2009	D880	2020	D4011BC	2411	DB208	1114
D325E(2S)	2017	D365P	2020	D522	2041	D686	2068	D880GR	2020	D4013BC	2413	DB210	1114
D325F(2S)	2017	D366	2020	D525	2020	D687	2068	D880Y	2020	D4049UBC	2449	DBA10B	1171
D325G	2017	D366A	2020	D525-O	2020	D691	2068	D880Y(JAPAN)	2020	D4066BC	2466	DBA10E	1173
D325GN	2017	D368(2S)	2055	D525-Y	2020	D704	2020	D880Y(KOREA)	2020	D4164C-2	2506	DBBY407004	2020
D325H	2017	D370	2041	D525R	2020	D704D	2020	D886	2020	D4164C-3	2506	DBCZ037300	2016
D325J	2017	D379(2S)	2041	D525Y	2020	D704E	2020	D886A	2020	D4164C-15	2506	DBCZ039404	2058
D325K	2017	D380(2S)	2055	D526	2020	D721	2068	D886F	2020	D4250	2041	DBCZ073304	2016
D325L	2017	D380A	2055	D526-O	2020	D723	2020	D886P	2020	D6462	1122	DBCZ073503	2009
D325M	2017	D381	2020	D531	2020	D725	2055	D886Q	2020	D6623	1104	DBCZ073504	2009
D325OR	2017	D381K	2020	D544	2020	D725-06	2055	D889	2016	D6623A	1104	DBCZ083905	2009
D325R	2017	D381L	2020	D560	2068	D726	2020	D889Q	2016	D6624	1104	DBCZ083906	1617
D325X	2017	D381M	2020	D570	2020	D734	2009	D889R	2016	D6624A	1104	DBCZ094504	2016
D325Y	2017	D382(2S)	2020	D575	2055	D734-NP	2009	D889T	2016	D6625	1104	DBCZ136406	1617
D327(2S)	2009	D385	2068	D575L	2055	D734E	2009	D918	2020	D6625A	1104	DBCZ373000	2016
D327-V	2009	D389(2S)	2020	D577	2055	D734F	2009	D919	2009	D6726	1122	DC	1104 N2
D327A(2S)	2009	D389-0	2020	D581	2041	D734G	2009	D940W01120	563	D8410	1123	DC-13	1123
D327B(2S)	2009	D389-O(2S)	2020	D581A	2041	D743	2020	D959LB	2020	D9634	2016	DC8457	1122
D327C(2S)	2009	D389A(2S)	2020	D582	2041	D743A	2020	D959Q	2020	D10167	1104	DCA25B	1114 N2
D327D(2S)	2009	D389AF	2020	D582A	2041	D743R	2020	D960	2020	D10168	1104	DCA25C	1114 N2
D327E(2S)	2009	D389AF0	2020	D589	2055	D762	2020	D960Q(JAPAN)	2020	D20000BB40	1104	DCA25E	1114 N2
D327F(2S)	2009	D389AFO	2020	D590	2030	D762-O(JAPAN)	2020	D969	2030	D21489	1104	DCB25B	1114 N1
D327L	2009	D389AFP(2S)	2020	D591	2016	D762P	2020	D1000	1114	D24000V09G	1104	DCB25C	1114 N1
D327OR	2009	D389AO	2020	D591R	2016	D762P(JAPAN)	2020	D1010	2016	D28000BB40	1104	DCB25E	1114 N1
D327R	2009	D389AP	2020	D592	2009	D762Q	2020	D1010S	2016	D92004R7B0	565	DCD015	1122 N1
D328(2S)	2030	D389AQ	2020	D592ANC	2009	D778	2009	D1012	2009	D92004R7B1	565	DCE015	1122 N2
D3285(2S)	2030	D389BLB	2020	D592NC	2009	D778Q	2009	D1012F	2009	D92005R1B0	565	DCERB12-01	1104
D330	2020	D389BLB-C	2020	D592R	2009	D778R	2009	D1012G1	2009	D93004R70X	565	DCV6	1114
D330D(2S)	2020	D389BLB-P	2020	D599	2016	D783	2055	D1022	2068	D93004R70Z	565	DD-000	1104
D330E	2020	D389BP	2020	D603	2009	D792	2055	D1024	2068	D93005R10X	565	DD000	1101
D331	2020	D389L	2020	D613	2020	D792S	2055	D1044A	2068	D101167	1104	DD-003	1104
D334(2S)	2041	D389LB(2S)	2020	D613P	2020	D792T	2055	D1060K	2041	D230130TAL	1104	DD003	1104
D334A(2S)	2041	D389LBP	2020	D633	2068	D800	1114	D1061	2020	D280010D40	1114	DD-006	1104
D334R(2S)	2041	D389LP	2020	D634	2068	D804	2020	D1098-42M	2017	D9200120B1	563	DD006	1104
D339	2041	D389P	2020	D635	2068	D804H	2020	D1101	2035	D93001200X	563	DD-007	1104
D339-1	2041	D389Q	2020	D636	2009	D804HLB	2020	D1102	2035	D93001200Y	563	DD007	1104
D339-2	2041	D389R	2020	D636-0	2009	D804HP	2020	D1103	2055	D93011201B	563	DD05	1101
D340	2041	D390	2020	D636-O	2009	D807	2055	D1131B	2020	DA000	1104	DD05(IR)	1101
D340-1	2041	D390A	2020	D636-Q(JAPAN)	2009	D807M	2055	D1131C	2020	DA001	1104	DD06	1101
D340-2	2041	D390P	2020	D636-R	2009	D820	2055	D1131D	2020	DA002	1104	DD06(IR)	1101
D341(2S)	2041	D390Q	2020	D636-R(JAPAN)	2009	D820-1(JAPAN)	2055	D1132B	2020	DA058	1114	DD07(IR)	1101
D341H(2S)	2041	D392	2009	D636P	2009	D821	2055	D1132C	2020	DA90	1123	DD056	1104
D342(2S)	2020	D394	2055	D636Q	2009	D822	2055	D1132D	2020	DA101	1122	DD058	1114
D343(2S)	2020	D404	2020	D636R	2009	D822P	2055	D1133B	2020	DA101A	1122	DD1S954	1122
D343A	2020	D404G	2020	D636S	2009	D822Q	2055	D1133C	2020	DA101B	1122	DD10A	1114
D343B	2020	D405(2S)	2068	D636T	2009	D836	2068	D1135(JAPAN)	2020	DA102	1122	DD175C	1104
D343C	2020	D409	2068	D637	2009	D836A	2068	D1135-5(JAPAN)	2020	DA102A	1122	DD176C	1104
D343D	2020	D416(TRANS)	2055	D637-O	2009	D836Q	2068	D1135C(JAPAN)	2020	DA102B	1122	DD177C	1104
D343H	2020	D418(2S)	2055	D637-P	2009	D836R	2068	D1172S	1104	DA203	1122 N3	DD236	1104
D343J	2020	D419	2068	D637-Q	2009	D837	2068	D1177	2035	DA-203X	1122 N3	DD266	1104
D343K	2020	D425(2S)	2041	D637-Q(JAPAN)	2009	D837A	2068	D1178	2035	DA-203Y	1122 N3	DD268	1114
D344	2020	D425-O	2041	D637-QR	2009	D837AB	2068	D1181	2035	DA-204X	1122 N3	DD1000	1101
D345	2020	D425-R	2041	D637-R	2009	D837AD	2068	D1183	2055	DA-204Y	1122 N3	DD2066	1104
D346	2020	D425O	2041	D637-R(JAPAN)	2009	D837AQ	2068	D1184	2055	DA205	1122	DD2068	1114
D347	2020	D426	2041	D637C	2009	D837AR	2068	D1185	2055	DA1000	1104	DD2320	1104
D348	2055	D426-O	2041	D637CR	2009	D837B	2068	D1186	2055	DA1703	1101	DD2321	1104
D350	2055	D426-R	2041	D637O	2009	D837LB	2058	D1206Q	2016	DA1704	1101	DD2327	1114
D350A	2055	D427	2041	D637P	2009	D837O	2068	D1206R	2016	DA2068	1114	DD3078	1114
D350Q(2S)	2055	D427-O	2041	D637PQR	2009	D837P	2068	D1266P(JAPAN)	2020	DAAY001002	1123	DDAY001001	1123
D350T	2055	D427-R	2041	D637Q	2009	D837Q	2068	D1266Q	2020	DAAY002001	1104	DDAY001002	1123
D356	2020	D431(IR)	1104	D637Q(JAPAN)	2009	D837R	2068	D1276-AP	2068	DAAY003002	1122	DDAY001004	1123

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DDAY001010	1123	DFA01G	1104	DGM-2	1123	DK20	1123	DR402	1104	DS15C	1104	DS77	1617
DDAY001023	1123	DFA05B	1104	DGM-3	1123	DK21	1123	DR426	1123	DS15E	1104	DS-78	2016
DDAY002001	1104	DFA05C	1104	DGM3	1123	DKDS1555	1122	DR427	1104	DS-16(SEARS-DIODE)		DS78	2016
DDAY002002	1104	DFA05E	1104	DH-001	1104	DKE[illegible]-04	1102	DR434	1123		1104	DS-79	1104
DDAY004001	1122	DFA05G	1104	DH-002	1104	DMGA90A-M	1123	DR435	1101	DS-16A	1104	DS79	1104
DDAY007001	033	DFA05G-KB4	1104	DH1S2076	1122	DM-40	038	DR449	1123	DS16A	1104	DS-79(DELCO)	1104
DDAY008001	561	DFA05G-KBG	1104	DH1S2076A	1122	DM-87	1712	DR463	1123	DS-16A(SANYO)	1114	DS-80	1104
DDAY010002	562	DFA1A2	1104	DH4R2	1104	DM87	1712	DR464	1123	DS-16B	1104	DS80	1104
DDAY010005	562	DFA1A4	1104	DH14	1104	DM-94	1770	DR500	1104	DS16B	1104	DS-81	2058
DDAY042001	1104	DFB05B	1104	DH14A	1104	DM7400	1801	DR600	1104	DS-16B(SANYO)	1104	DS81	2016
DDAY047001	1122	DFB05C	1104	DH16	1104	DM7400J	1801	DR664	1122	DS-16B(SYLVANIA)	1104	DS-82	2023
DDAY047005	1122	DFB05E	1104	DH16A	1104	DM7400N	1801	DR668	1104	DS16C	1104	DS82	2023
DDAY-048001	1122	DFB05G	1104	DHD800	1123	DM7401J	1801	DR669	1104	DS-16C(SANYO)	1104	DS-83	2023
DDAY048001	1122	DFC10E	1104	DHD805	1123	DM7401N	1801	DR670	1103	DS-16D	1104	DS83	2023
DDAY048007	1122	DFC10E-KB4	1104	DHD806	1122	DM7404N	1802	DR671	1104	DS16D	1104	DS-85	2016
DDAY048008	1122	DFC10G	1104	DHD8001	1122	DM7408J	1822	DR677	1122	DS-16D(SANYO)	1104	DS85	2016
DDAY048012	1122	DFD05G	1104	DI-1	1123	DM7408N	1822	DR695	1104	DS-16E	1104	DS-88	2035
DDAY048013	1122	DFEQA02-05C	565	DI-2	1123	DM7447AJ	1805	DR698	1104	DS16E	1104	DS88	2035
DDAY048014	1122	DFEQA02-05C		DI-7	1104	DM7447AN	1805	DR699	1103	DS-16E(SANYO)	1104	DS-94	2009
DDAY069001	1122	(,EQA02-05(C))	565	DI7	1104	DM7447N	1805	DR700	1114	DS16N	1104	DS-97	1122
DDAY101001	1123	DFEQA02-05C		DI-8	562	DM7490	1808	DR800	1114	DS16NA	1114	DS97	1122
DDAY103001	1104	(,EQA02-05(D))	565	DI-8(COURIER)	562	DM7490AN	1808	DR826	1103	DS16NB	1104	DS97(DELCO)	1122
DDAY126001	562	DFEQA02-05D	562	DI-8(DIODE)	1123	DM7490J	1808	DR848	1104	DS16NC	1104	DS99	562
DDBY002001	1104	DFERA81-004	1165	DI-20	1123	DM7490N	1808	DR852	1122	DS-16ND	1104	DS104	1122
DDBY003001	2023	DFERB12-01	1104	DI-42S	1104	DMMA4051-M	565	DR863	1104	DS16ND	1104	DS-107	565
DDBY003002	2023	DFERB12-02	1114	DI42S	1104	DMMA4051-M	565	DR900	1114	DS-16NE	1104	DS-108	563
DDBY003003	2023	DFERC04-02	1114	DI-46	1104	DMMA4091-M	562	DR1000	1114	DS16NE	1104	DS-113	1122
DDBY004001	2023	DFG1A2	1102	DI46	1104	DND800	1122	DR1100	1104	DS-16NY	1104	DS-117	1122
DDBY007002	2023	DFG1A4	1103	DI-52S	1104	DNRD5.1E-B3	565	DR5101	1104	DS-16YA	1104	DS117	1122
DDBY008001	2023	DFG1A6	1104	DI52S	1104	DNRD5.1E-B3(,RD5.1		DR5102	1104	DS17(ADMIRAL)	1104	DS118A	1143
DDBY209003	2009	DFG1A8	1114	DI-55	1104	(F)B3)	565	DR-104532	1000	DS-17(SANYO)	1104	DS118B	1144
DDBY214002	2058	DFG2A2	1114	DI-56	1104	DNRD6.2E	561	DRA01B	1067	DS-17-6A	1104	DS-130	1104
DDBY219001	2058	DFG2A4	1114	DI56	1104	DNRD6.2E(,RD6.2E(B2))		DRA01C	1067	DS17N	1104	DS130A	1114
DDBY222002	2009	DFG2A6	1114	DI-71	1104		561	DRA01E	1020	DS-18	1104	DS-130B	1104
DDBY224001	2009	DFG2A8	1114	DI-72S	1104	DNRD6.2E(,RD6.2E(B3))		DRA03A	1067	DS18	1101	DS130B	1104
DDBY224003	2009	DFH10G-KB4	1104	DI72S	1104		561	DRA03B	1067	DS-18(GE)	1104	DS-130C	1104
DDBY224004	2009	DFH10GKB4	1104	DI-172S	1104	DNRD6.2E-B1-B3	561	DRA03C	1067	DS-18(SANYO)	1104	DS130C	1104
DDBY224006	2009	DG1-005	1104	DI-645	1104	DNRD6.2E-B2	561	DRA03D	1020	DS18(SEARS)	1104	DS130D	1104
DDBY228001	2020	DG1K	1114	DI645	1104	DNRD6.2E-B2(,GEA6.2		DRA03E	1020	DS18N	1104	DS-130E	1104
DDBY233001	2009	DG1M	1104	DI-646	1104	(E)B2)	561	DRA2A	1067	DS19	1102	DS130E	1104
DDBY259001	2009	DG1MR	1104	DI646	1104	DNRD6.2E-B3	561	DRA2B	1067	DS-19(RECTIFIER)	1104	DS130NA	1114
DDBY259002	2009	DG1N40	1123	DI-647	1104	DNRD6.2L	561	DRA2C	1067	DS-19(SANYO)	1104	DS130NB	1104
DDBY261002	2016	DG1PR	1104	DI-648	1104	DO31	2005	DRA2E	1020	DS-27	1123	DS130NC	1104
DDBY262001	2009	DG1S34	1123	DI-649	1104	DO87	2016	DRA3E	1067	DS27	1123	DS130ND	1104
DDBY267001	2016	DG1S188	1123	DI-650	1114	DO88	2016	DRB3B	1067	DS31	1122	DS130NE	1104
DDBY273001	2009	DG1S188-FM	1123	DI650	1114	DP13B00-2	1151	DRB3C	1067	DS31(DELCO)	1123	DS130T	1114
DDBY277002	2009	DG2-006	1104	DI-705	1104	DP13B01-2	1171	DRB3E	1020	DS-32	1123	DS130TA	1114
DDBY278001	2020	DGA5	1122	DI-1649	1104	DP13B04-2	1173	DRS1	1104	DS32	1123	DS-T30TA-L	1104
DDBY278002	2020	DGDS135D	1102	DI1649	1104	DP100	1114	DRS2	1114	DS-33	1123	DS130TA-L	1104
DDBY283001	2016	DGDS135E	1104	DICR1	1114	DR1	1104	DRS101	1104	DS33	1123	DS130TAL-FB2	1104
DDBY287001	2016	DGDS442	1122	DID	1114	DR1PR	1104	DRS102	1104	DS33(DELCO)	1123	DS-T30TA-S	1104
DDBY295002	2016	DGDS442X	1122	DIDS442X	1123	DR2	1104	DRS104	1104	DS-38	1122	DS130TB	1114
DDBY299001	2009	DGGMA01	1122	DIDS448-FA1	1122	DR3	1104	DRS106	1104	DS38(SANYO)	1104	DS130TC	1114
DDBY301001	2009	DGGMA01-L	1122	DIE	1104	DR4	1104	DRS107	1114	DS-39	1123	DS130TD	1114
DDBY407001	2020	DGGZA5.1-X	565	DIJ	1104	DR5	1104	DRS108	1114	DS39	1123	DS130TE	1114
DDBY407004	2020	DGGZA5.1-X(,GZA5.1		DIJ61224	1123	DR50	1104	DRS110	1114	DS-43	562	DS-T30YB	1104
DDBY410001	2009	(X))	565	DIJ70486	1122	DR100	1104	DS-0065	1104	DS43	562	DS130YC	1104
DDBY410002	2009	DGGZA5.1-X(,GZA5.1		DIJ70488	1104	DR128	1123	DS0065	1104	DS-44	2009	DS130YE	1104
DDBY4233001	2016	(Y))	565	DIJ70542	1123	DR200	1104	DS1	1104	DS44	1617	DS-T31	1104
DDCY001002	2035	DGGZA5.1-Y(,GZA5.1		DIJ70543	1123	DR202	1104	DS1B	1617	DS-45	2009	DS131	1104
DDCY002002	2035	(Y))	565	DIJ70544	1104	DR204	1103	DS-1K	1114	DS45	1617	DS-T31A	1104
DDCY004001	2035	DGGZA5.1-Z	565	DIJ70545	1122	DR206	1104	DS1K	1104	DS-46	2009	DS131A	1104
DDCY007002	2023	DGGZA5.1X	565	DIJ70644	1123	DR207	1123	DS1K7	1104	DS46	1617	DS-T31B	1104
DDE-201	1104	DGGZA5.1X(,GZA5.1		DIJ70645	1123	DR208	1114	DS-1M	1104	DS-47	1617	DS131B	1104
DDEY027001	1908	(Y))	565	DIJ70646	1123	DR209	1122	DS1M	1104	DS47	1617	DS132	1104
DDEY030001	1801	DGGZA5.1Y	565	DIJ70695	1104	DR210	1114	DS1N	1104	DS48	562	DS132A	1104
DDEY058001	2411	DGGZA6.2	561	DIJ71273	1122	DR213	1123	DS-1P	1104	DS58(SANYO)	1104	DS-T32B	1104
DDEY084001	2411	DGGZA6.2(,GZA6.2(X))		DIJ71711	1122	DR283	1123	DS1P	1104	DS-66	1617	DS132B	1104
DDEY089001	2411		561	DIJ71776	1123	DR291	1123	DS-1U	1101	DS66	1617	DS133A	1104
DDMV-1	1123	DGGZA6.2(,GZA6.2(Y))		DIJ71778	1123	DR300	1104	DS-1.5-2	1114	DS-66W	2009	DS135	1102
DDMV-2	1123		561	DIJ71895-1	1122	DR301	1122	DS2K	1104	DS-67	1617	DS135C	1104
DE14	1104	DGGZA6.2-X	561	DIJ71958	1104	DR303	1123	DS2M	1114	DS67	1617	DS135C-AT	1102
DE14A	1104	DGGZA6.2-X(,GZA6.2		DIJ71959	1104	DR307	1123	DS-2N	1114	DS-67W	2009	DS135D	1102
DE1[illegible]	1104	(X))	561	DIJ71960	1122	DR314	1123	DS2N	1104	DS67W	1617	DS135E	1104
DE1[illegible]	1104	DGGZA6.2-X(,GZA6.2		DIJ72164	1122	DR318	1123	DS2N22	1104	DS-71	2016	DS135F	1104
DE104	1122	(Y))	561	DIJ72165	562	DR319	1123	DS2P	1144	DS71	2016	DS150	1114
DE110	1122	DGGZA6.2-Y	561	DIJ72166	1123	DR326	1123	DS5BN-L	1104	DS-72	2016	DS150A	1114
DE111	1122	DGGZA6.2X	561	DIJ72168	1104	DR327	1122	DS-10	1104	DS72	2016	DS150B	1114
DE112	1122	DGGZA6.2X(,GZA6.2		DIJ72172	562	DR329	1123	DS-13	1114	DS-73	2016	DS150C	1114
DE113	1122	(Y))	561	DIJ72292	1114	DR330	1123	DS-13(COURIER)	1104	DS73	2016	DS159	561
DE114	1122	DGGZA9.1-Z	563	DIJ72293	561	DR338	1123	DS-13A(SANYO)	1104	DS-74	2016	DS160(G.E.)	1104
DE115	1123	DGGZA9.1-Z(,GZA9.1Z)		DIJ72294	1123	DR351	1123	DS13B	1144	DS74	2016	DS230B	1104
DE-201	1104		562	DIK	1114	DR352	1123	DS-13B(SANYO)	1104	DS-75	2009	DS330A	1104
DE201	1104	DGGZA9.1Z	562	DIL	1104	DR365	1123	DS-14(DIODE)	1104	DS75	2016	DS330B	1104
DE[illegible]1	1114	DGGZM6.2-B2	561	DIS-15	1104	DR366	1123	DS-14(SANYO)	1101	DS-76	1617	DS-410	1122
DF-2	2041	DGGZM9.1-B2	562	DIS15	1104	DR385	1123	DS15A	1114	DS76	1617	DS410	1122
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EA15X360	2009
EA15X361	2016
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EA15X400	2035	EA15X8511	1617	EA33X8469	1740	EA2741	1104	EC107A1	1067	ECG507	1101	ECG5454	1067
EA15X401	2035	EA15X8515	1617	EA33X8479	007	EA2770	1617	EC107A2	1067	ECG519	1122	ECG5455	1067
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EA15X408	2009	EA15X8518	2009	EA50X12	2020&27	EA2771	2016	EC107B2	1067	ECG552	1104	ECG5457	1020
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EA15X415	2016	EA15X8520	2009	EA57X3	1104	EA3127	1123	EC107D2	1020	ECG778A	038	ECG5511	1067
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EA15X4532	1617	EA16X21	1104	EA1408	1617	EAA00-11300	2068	ECG117A	1114	ECG3026	025	ECG7400	1801
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EA15X5939	2009	EA16X29	563	EA1452	1617	EAA00-12800	2068	ECG123A	1617	ECG3056	075	ECG7408	1822
EA15X7112	1617	EA16X30	1104	EA1499	1617	EAA00-13400	2009	ECG123AP	2009	ECG3061	053	ECG7447	1805
EA15X7113	2016	EA16X33	1104	EA1549	2030	EAA00-17400	2068	ECG125	1114	ECG3115	081	ECG7490	1808
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EA15X7118	1617	EA16X49	1122	EA1578	1617	EAB00-07100	2023	ECG133	2035	ECG4011	2411	ECR600-2	1104
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EA15X7121	2020	EA16X60	1122	EA1629	1617	(,2SA950-O)	2023	ECG137	561	ECG4013B	2413	ED0039	564
EA15X7125	2016	EA16X61	1122	EA1630	1617	EAC00-00400	1122	ECG137A	561	ECG4017	2417	ED0056	1104
EA15X7136	2058	EA16X62	562	EA1638	1617	EAC00-00600	1102	ECG139	562	ECG4017B	2417	ED0059	1104
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EA15X7173	2009	EA16X80	561	EA1695	1617	EACT0-00400(,152473)		ECG142	563	ECG5009	565	ED0214F	561
EA15X7174	2009	EA16X82	562	EA1696	1617		1122	ECG142A	563	ECG5009A	565	ED-4	1104
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EA15X7177	2016	EA16X92	1101	EA1703	1617	EAD00-10400	565	ECG152	2020	ECG5013	561	ED-5	1104
EA15X7178	2009	EA16X94	1122	EA1716	1617	EAD00-15100	564	ECG153	2027	ECG5013A	561	ED5	1104
EA15X7179	2009	EA16X95	1122	EA1718	1617	EAD00-20200	561	ECG156	1114	ECG5017	562	ED-6	1104
EA15X7215	2016	EA16X97	1123	EA1733	2016	EAQ00-02000	1802	ECG159	2023	ECG5017A	562	ED6	1104
EA15X722[illegible]	2016	EA16X101	1122	EA1735	1617	EAQ00-11100	1723	ECG159MCP	2009&23	ECG5018	562	ED6(ELCOM)	1123
EA15X7231	2016	EA16X105	1122	EA1740	2041	EAQ00-11100		ECG161	2016	ECG5018A	562	ED6.2EB	561
EA15X7232	1617	EA16X110	1122	EA1778	2009	(,HA17555PS)	1723	ECG164	2055	ECG5021	563	ED7	1104
EA15X7233	2058	EA16X122	1122	EA1793	2016	EAS00-00700	1770	ECG165	2055	ECG5021A	563	ED8(ELCOM)	1114
EA15X7234	2058	EA16X124	564	EA1872	1617	EA500-00700(,UPC7805)		ECG166	1171	ECG5024	564	ED9	1123
EA15X7235	2058	EA16X126	565	EA1873	2030		1770	ECG168	1173	ECG5024A	564	ED9(ELCOM)	1123
EA15X7236	2058	EA16X134	1122	EA2131	2016	EA500-05800	1712	ECG177	1122	ECG5069	565	ED10(ELCOM)	1123
EA15X7242	2058	EA16X135	1122	EA2132	2016	EAS00-05800		ECG178MP	1122	ECG5069A	565	ED11(ELCOM)	1123
EA15X7243	2016	EA16X136	565	EA2137	1123	(,TA75339P)	1712	ECG186	2017	ECG5070	561	ED12(ELCOM)	1123
EA15X7244	2058	EA16X140	1123	EA2140	1104	EAS00-06100	038	ECG196	2020	ECG5070A	561	ED29(ELCOM)	1114
EA15X7245	2016	EA16X144	565	EA2271	1617	EAS00-09000	007	ECG199	2016	ECG5073	562	ED31(ELCOM)	1122
EA15X7262	2009	EA16X146	1122	EA2429	2016	EAW00-00700	2035	ECG219	2043	ECG5073A	562	ED32(ELCOM)	1122
EA15X7263	2016	EA16X148	1123	EA2488	2017	EAX5X249	2009	ECG223	2041	ECG5304	1173	ED46	1123
EA15X7264	2016	EA16X149	1144	EA2489	1617	EB1(ELCOM)	1171	ECG229	2058	ECG5400	1067	ED-60	1123
EA15X7514	1617	EA16X150	562	EA2490	1617	EB2(ELCOM)	1173	ECG233	2009	ECG5401	1067	ED60	1123
EA15X7517	1617	EA16X152	1122	EA2493	2009	EB3(ELCOM)	1171	ECG234	2023	ECG5402	1067	ED150Z	1617
EA15X7583	2016	EA16X162	563	EA2494	2009	EB6(ELCOM)	1173	ECG238	2055	ECG5403	1067	ED592K	2058
EA15X7586	1617	EA16X171	1122	EA2495	2009	EB9(ELCOM)	1171	ECG241	2020	ECG5404	1067	ED592M	2016
EA15X7587	2016	EA16X402	562	EA2496	2016	EB11(ELCOM)	1173	ECG261	2068	ECG5405	1020	ED-1402	1617
EA15X7588	2009	EA16X421	561	EA2499	1104	EC080	1114	ECG280	2041	ECG5408	1067	ED1402A	1617
EA15X7589	2009	EA16X441	1123	EA2500	563	EC100	1114	ECG281	2043	ECG5409	1020	ED1402A/09-30506	2009
EA15X7590	1617	EA16X442	1122	EA2501	1104	EC103D	1020	ECG289	2009	ECG5411	1067	ED1402A/09-305066	
EA15X7635	2030	EA16X446	1122	EA2502	1123	EC103Y	1067	ECG289A	2009	ECG5412	1067		1617
EA15X763[illegible]	1617	EA16X462	565	EA2600	2016	EC106A1	1067	ECG290	2023	ECG5413	1067	ED1402B	1617
EA15X7643	1617	EA16X464	1114	EA2601	2016	EC106A2	1067	ECG290A	2023	ECG5414	1067	ED1402C	2009
EA15X7722	2016	EA16X474	564	EA2602	2016	EC106B1	1067	ECG291	2020	ECG5415	1020	ED1402D	2009
EA15X7732	2023	EA16X476	1173	EA2603	2016	EC106B2	1067	ECG312	2035	ECG5421	1067	ED1402E	2009

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ED1502	2016	ED224548	1104	ELM107	2016	EN706	1617	EP15X95	2035	EPX68	564	EQF-3	2035
ED1502A	2058	ED224550	1104	ELM108	2016	EN708	1617	EP15X97	2020	EQ-09R	562	EQF-4	2035
ED1502B	2009	ED302379	1122	ELM109	1123	EN718A	2016	EP15X98	2058	EQ1	2062	EQG01-12A	563
ED-1502C	2058	ED329128	1104	ELM110MP	1123	EN722	2023	EP15X99	2016	EQA01-01	562	EQG-12A	563
ED1502C	2016	ED329130	1104	ELM114	1101	EN744	1617	EP15X101	2009	EQA01-05	565	EQR-0016	2023
ED1502D	2009	ED491130	562	ELM116	1104	EN870	2030	EP15X102	2020	EQA01-05R	565	EQR-0038	2023
ED1502E	2016	ED494583	1104	ELM117	1104	EN914	1617	EP15X104	2058	EQA01-05S	565	EQS-0018	2009
ED1502F	2058	ED511097	1104	ELM120	1101	EN915	2009	EP15X106	1067	EQA01-05T	565	EQS-0061	2009
ED1502P	2058	ED514721	1122	ELM123	1617	EN916	2016	EP15X107	2023	EQA01-06S	561	EQS-0100	2009
ED1502R	2009	ED515790	1122	ELM123A	1617	EN918	2016	EP15X110	2009	EQA01-06SD	561	EQS-0102	2016
ED1602C	2023	ED516420	1122	ELM125	1114	EN930	1617	EP15X124	2035	EQA01-06T	561	EQS-0165	2009
ED1602D	2023	ED536062	1122	ELM128	2030	EN956	1617	EP15X125	2016	EQA01-09	562	EQS-0192	2009
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ED1702K	2009	ED703876	1122	ELM135	565	EN1613	2030	EP15X128	2023	EQA01-09R	562	EQS-0196	2009
ED1702L	1617	ED703904	1102	ELM137	561	EN1711	2030	EP15X141	2058	EQA01-095	562	EQS-0198	2058
ED1702L/09-30506	2009	EDG-0001	1123	ELM139	562	EN2219	1617	EP15X142	2020	EQA01-067	561	EQS-5	2009
ED1702L/09-305068		EDG-0003	1123	ELM142	563	EN2222	1617	EP15X143	2009	EQA01-12	563	EQS-9	2009
	1617	EDG-0006	1123	ELM152	2020	EN2369A	1617	EP15X225	2023	EQA01-12R	563	EQS-10	2016
ED1702M	2009	EDG-0014	1122	ELM156	1114	EN2484	2016	EP15X226	2009	EQA01-12S	563	EQ5-11	2016
ED1704L	2009	EDG-1	1123	ELM159	2023	EN2894	2023	EP16X1	1122	EQA01-12S1	563	EQ5-18	2009
ED1802-0	2023	EDG-3	1123	ELM161	2016	EN2894A	2023	EP16X3	1123	EQA01-12Z	563	EQS-21	2016
ED1802M	2023	EDJ-363	1104	ELM164	2055	EN2907	2023	EP16X4	1122	EQA01-15	564	EQS-22	2009
ED1804	1104	EDS-0001	1122	ELM165	2055	EN3009	1617	EP16X5	564	EQA01-15R	564	EQS-61	2009
ED1892	1104	EDS-0002	1104	ELM166	1171	EN3011	1617	EP16X7	2030	EQA01-15RL	564	EQS-62	2009
ED2106	1104	EDS-0004	1102	ELM168	1173	EN3013	1617	EP16X13	1104	EQA01-15RLV	564	EQS-64	2009
ED2107	1104	EDS-0014	1122	ELM177	1122	EN3014	1617	EP16X15	1122	EQA02-05	565	EQS-66	2017
ED2108	1104	EDS-0017	1104	ELM196	2020	EN3250	2023	EP16X20	1122	EQA02-05(C)	565	EQS-67	2017
ED2109	1104	EDS-0024	1104	ELM199	2016	EN3504	2023	EP16X21	1123	EQA02-05(D)	565	EQ5-78	2016
ED2110	1104	ED5-1	1122	ELM219	2043	EN3903	1617	EP16X22	1122	EQA02-05-A	565	EQS-100	2009
ED2842	1104	EDS-4	1102	ELM229	2058	EN3904	1617	EP16X23	1122	EQA02-05-B	565	EQ5131	2009
ED2843	1104	EDS-11	1104	ELM234	2023	EN3905	2023	EP16X25	565	EQA02-05-D	565	EQS-139	2016
ED2844	1104	EDS-17	1104	ELM281	2043	EN3906	2023	EP16X27	1122	EQA02-05A	565	ER1	1104
ED2845	1104	E-DS18	1101	ELM519	1122	EN3962	2023	EP16X36	563	EQA02-05AB	565	ER2	1104
ED2846	1104	E-DS135D	1102	ELM5400	1067	EO704	1104	EP16X49	1122	EQA02-05CD	565	ER5(ELCOM)	1101
ED2847	1114	E-DS442	1122	ELM5404	1067	EP6X10	1122	EP16X50	1122	EQA02-05CDB	565	ER11	1104
ED2848	1114	E-DS442-VG1	1122	ELM5809	1114	EP15X1	2009	EP16X51	1122	EQA02-05D	565	ER12	1104
ED2849	1114	E-DS442VG1	1122	ELP4.7	565	EP15X2	2009	EP16X52	564	EQA02-05E	565	ER15X8	1617
ED2910	1114	E-DS442YG1	1122	ELP6.2	561	EP15X3	2016	EP16X53	1123	EQA02-05EF	565	ER15X18	1617
ED2911	1114	EDZ-0045	562	ELP9.1	562	EP15X5	2030	EP16X59	1122	EQA02-05F	565	ER21	1104
ED2912	1114	EDZ-23	562	ELP12G	563	EP15X6	2009	EP16X66	1122	EQA02-05M1	565	ER22	1104
ED2913	1114	EE5A-4.7	565	ELP14	564	EP15X6(,2SA937MRS)		EP16X68	564	EQA02-06E	561	ER31	1104
ED2914	1104	EE5A-5.1	565	ELP15	564		2023	EP16X71	1102	EQA02-06EF	561	ER41	1104
ED2915	1104	EE5A-6.2	561	ELP115G	563	EP15X6(PNP)	2023	EP16X73	565	EQA02-06F	561	ER42	1104
ED2916	1104	EE5A-9.1	562	EM01	1104	EP15X7	1617	EP16X149	1104	EQA02-09-CD	562	ER51	1104
ED2917	1104	EE5A-12G	563	EM01A	1114	EP15X8	2009	EP16X152	565	EQA02-09AB	562	ER57X2	1104
ED2918	1104	EE5A-15	564	EM01Z	1104	EP15X9	2009	EP16X153	561	EQA02-09B	562	ER57X3	1104
ED2919	1104	EE5A-115	563	EM1	1104	EP15X10	1067	EP16X154	1104	EQA02-09C	562	ER57X4	1104
ED2920	1104	EECG-1234	2009	EM1A	1114	EP15X11	2020	EP25	2023	EQA02-09CD	562	ER61	1104
ED2921	1104	EF1(ELCOM)	2035	EM1B	1114	EP15X12	2055	EP57X1	1104	EQA02-09D	562	ER62	1104
ED2922	1114	EF2(ELCOM)	2035	EM1J2	1104	EP15X14	2020	EP57X4	1104	EQA02-11C	563	ER81	1114
ED2923	1114	EF3	2035	EM1Y	1102	EP15X15	2027	EP57X10	1104	EQA02-11CD	563	ER101	1104
ED2924	1114	EF100	1114	EM-1Z	1102	EP15X17	2023	EP57X12	1104	EQA02-11CDB	563	ER102D	1104
ED3000	1104	EG01	1103	EM1Z	1102	EP15X20	2009	EP57X54	1104	EQA02-12M1	563	ER103D	1104
ED3000A	1104	EG01A	1104	EM1Z1	1104	EP15X22	2020	EP84X13	1801	EQA02-14-AB	564	ER103E	1104
ED3000B	1104	EG01Y	1104	EM-1ZS	1102	EP15X23	2027	EP84X69	038	EQA02-15A	564	ER104D	1104
ED3001	1104	EG01Z	1102	EM1ZV	1102	EP15X26	2023	EP84X119	1711	EQA02-15AB	564	ER105D	1104
ED3001A	1104	EG1	1103	EM2	1114	EP15X28	2055	EP84X217	1771	EQA02-15M	564	ER106D	1104
ED3001B	1104	EG1A	1104	EM2A	1114	EP15X30	2020	EP84X242	2417	EQA09R	562	ER107D	1114
ED3002	1104	EG1Y	1104	EM2B	1114	EP15X31	1020	EP-100	2020	EQA-0109S	562	ER108D	1114
ED3002A	1104	EG100	1104	EM401	1104	EP15X33	2030	EP200	1104	EQA0205	565	ER181	1104
ED3002B	1104	EG100H	1104	EM402	1104	EP15X37	2016	EP-276	2020	EQA0205B	565	ER182	1104
ED3003	1104	E-GZA5R1Z	565	EM403	1104	EP15X38	2016	EP276	2020	EQA0206C	561	ER183	1104
ED3003A	1104	EH1	1104	EM404	1104	EP15X39	2009	EP400	1104	EQA0212AB	563	ER184	1104
ED3003B	1104	EH-1A	1104	EM405	1104	EP15X41	2058	EP-421	2027	EQA-9	562	ER185	1104
ED3003S	1104	EH1A	1104	EM406	1104	EP15X42	2058	EP-422	2020	EQA.9	562	ER186	1114
ED3004	1104	EH-1Z	1104	EM407	1114	EP15X43	2020	EP600	1104	EQB0-06V	561	ER187	1114
ED3004A	1104	EH1Z	1104	EM408	1114	EP15X45	2055	EP-797	2020	EQB01	563	ER201	1104
ED3004B	1104	EH-1ZV	1104	EM409	1114	EP15X48	2023	EP800	1114	EQB01-05	565	ER-300	066A
ED3005	1104	EH2C11	1104	EM410	1114	EP15X52	2023	EP-801	2020	EQB01-05SA	565	ER301	1104
ED3005A	1104	EH2C11/7+12/1	1104	EM500	1104	EP15X53	2023	EP-802	2027	EQB01-06	561	ER308	1114
ED3005B	1104	EICM-0060	705	EM501	1104	EP15X54	2009	EP-943	2027	EQB01-06V	561	ER310	1114
ED3006	1104	EK03	1165	EM502	1104	EP15X55	2016	EP-944	2020	EQB01-06Y	561	ER381	1104
ED3006A	1104	EK-04	1102	EM503	1104	EP15X57	2023	EP1000	1114	EQB01-09	562	ER401	1104
ED3006B	1104	EK04	1165	EM504	1104	EP15X57(,1473)	2023	EP1259	1104	EQB01-12	563	ER410	1104
ED3007	1114	EK04LF	1102	EM505	1104	EP15X57(,2058)	2023	EP1259-2	1104	EQB01-12A	563	ER501	1104
ED3007A	1114	EK13	1165	EM506	1104	EP15X60	2023	EP-1428-2H	1104	EQB01-12B	563	ER510	1104
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ED3008A	1114	EL131	2035	EM509	1114	EP15X85	2009	EP-3053	2020	EQB01-12R	563	ER1001	1114
ED3008B	1114	EL214	2030	EM510	1114	EP15X86	2009	EP-3149	1144	EQB01-12Z	563	ERA21-02	1102
ED3009	1114	EL231	2016	EM1021	1104	EP15X87	2009	EP3149	1104	EQB01-15	564	ERA21-04	1103
ED3009A	1114	EL232	1617	EM-1171	1104	EP15X88	2009	EP-5219-1	1101	EQB01-15Z	564	ERA21-06	1104
ED3009B	1114	EL238	1617	EMS-72272	1122	EP15X89	2009	EP-5619-2/7628	1104	EQB01-15ZB	564	ERA22-02	1102
ED3010	1114	EL403	2009	EN10	2009	EP15X90	2023	EPR9	562	EQB01-90S	562	ERA22-04	1103
ED3010A	1114	EL434	2016	EN30	2009	EP15X90(IC)	1770	EPX2	2009	EQC01-10	1114	ERA22-06	1104
ED3010B	1114	EL627	2016	EN40	2009	EP15X92	2009	EPX15X17	2023	EQC04-02	1114	ERA22-08	1114
ED219464	1123	EL642	2009	EN697	1617	EP15X93	2009	EPX59	1122	EQD01-09	562	ERA81-004	1165

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ERA81-004G	1102	ERCC4-06	1114	ES16X3	1123	ESK1/06	1104	ETS-003	2041	EW15X190	2023	EW161	1617
ERA82-004	1165	ERD03-02	1114	ES16X4	1122	ESKE40C500	1104	ETS-068	1617	EW15X190(,2SB641)		EW162	1617
ERA84-009	1104	ERD03-04	1144	ES16X5	1123	ESKE125C500	1114	ETS-070	2030		2023	EW183	2027
ERB01-05	565	ERD100	1104	ES16X6	1123	ESM5B2	1122	ETTC-458LG	1617	EW15X215	2023	EW212	2016
ERB01-10	1114	ERD200	1104	ES16X7	1123	ESZ5.1	565	ETTC-930D	2016	EW15X215(,2SB642QRS)		EWQ202	2023
ERB-06B	1104	ERD300	1104	ES16X8	563	ESZ6.2	561	ETTC-945	2009		2023	EX0011GE	564
ERB11-01	1104	ERD400	1104	ES16X9	1104	ESZ9.1	562	ETTC-CD8000	1617	EW15X224	2016	EX0020GE	565
ERB12-01	1104	ERD500	1104	ES16X12	1123	ESZ12	563	ETTC-CD12000	1617	EW15X225	2020	EX0031CE	563
ERB12-01G	1104	ERD600	1104	ES16X13	1104	ET15X2	2016	ETTC-CD13000	1617	EW15X226	2009	EX0047CE	563
ERB12-01RK	1102	ERD700	1114	ES16X14	1123	ET15X3	2016	ETT-CDC-12000	1617	EW15X231	2016	EX0048CE	561
ERB12-01U4	1104	ERD800	1114	ES16X21	1123	ET15X7	2016	ETTD-235	2020	EW15X234	2009	EX0061CE	563
ERB-12-02	1122	ERD900	1114	ES16X24	1122	ET15X9	2016	ETX18	2009	EW15X235	2020	EX0131CE	565
ERB12-02	1114	ERD1000	1114	ES16X25	1104	ET15X10	2009	EU01	1104	EW15X237	2027	EX0137CE	565
ERB12-02RK	1104	ER5100	2030	ES16X27	1122	ET15X11	2009	EU01A	1104	EW15X240	2023	EX0137TA	565
ERB12-02V	1104	ERV-02F2150	1104	ES16X30	1122	ET15X12	2030	EU01Z	1104	EW15X241	2020	EX0192CE	561
ERB12-04	1114	ERZ-C14DK201	570	ES16X32	1122	ET15X13	1617	EU02A	1104	EW15X243	2009	EX0200CE	563
ERB12-04RK	1104	ERZ-C14DK201U	570	ES16X33	1114	ET15X14	1617	EU02Z	1104	EW15X254	2009	EX0217CE	564
ERB12-06	1114	ERZ-C20DK201	568	ES16X38	1104	ET15X15	1617	EU-1	1104	EW15X315	2009	EX15X336	2016
ERB12-10	1114	ERZ-C20DK201U	568	ES16X40	1122	ET15X16	1617	EU1	1104	EW15X316	2009	EX16X10	1122
ERB12-11	1104	ES-1	1104	ES16X70	1123	ET15X18	2016	EU-1A	1104	EW15X316(,2SD637QRS)		EX16X27	1122
ERB22-15	1104	ES1	1104	ES16X103	1123	ET15X19	2009	EU1A	1104		2009	EX76-X	1104
ERB24-02D	1104	ES1KX122	2058	ES20(ELCOM)	1617	ET15X20	2009	EU-1AV	1104	EW15X317	2009	EX80/211-X	1123
ERB24-04	1104	ES11	2016	ES22(ELCOM)	2030	ET15X21	2016	EU-1V	1104	EW15X317(,2SD638QRS)		EX142-X	1122
ERB-24-04C	1104	ES15	2016	ES31(ELCOM)	2041	ET15X23	2009	EU1Z	1104		2009	EX479-X	2009
ERB24-04C	1104	ES15X1	1617	ES34(ELCOM)	2023	ET15X24	1617	EU-2	1104	EW15X328	2020	EX500-X	2009
ERB24-04CV	1104	ES15X2	2016	ES36X103	1123	ET15X27	2009	EU2	1104	EW15X329	2023	EX695-X	2009
ERB24-04D	1104	ES15X3	2016	ES46	1617	ET15X30	2016	EU2A	1104	EW15X342	2016	EX744-X	2030
ERB24-06	1104	ES15X6	2016	ES46(ELCOM)	1617	ET15X33	2023	EU2V	1104	EW15X346	2020	EX746-X	2023
ERB24-06A	1104	ES15X7	1617	ES47X1	1104	ET15X36	2030	EU2Z	1104	EW15X428	2016	EX748-X	2009
ERB24-06B	1104	ES15X9	2023	ES47X4	1104	ET15X37	1617	EU15X1	2016	EW15X549	2016	EX888-X	2009
ERB24-06C	1104	ES15X10	2016	ES51	1104	ET15X41	1617	EU15X2	2016	EW16X12	1104	EXV120DIR5J	1123
ERB28-02	1104	ES15X11	1617	ES51X65	2030	ET15X42	1617	EU15X3	2016	EW16X22	1104	EYV120D1R5JA	1104
ERB28-04	1104	ES15X12	2020	ES53(ELCOM)	1617	ET15X45	1617	EU15X6	2016	EW16X59	1102	EYV120D1R5JB	1122
ERB28-04B	1104	ES15X14	1617	ES54(ELCOM)	2016	ET15X54	2009	EU15X27	2030	EW16X76	1122 N2	EYV120DIR5JE	1120
ERB-28-04D	1104	ES15X16	1617	ES56(ELCOM)	2030	ET16X1	1123	EU15X34	2030	EW16X92	1165	EYZP623	2023
ERB28-04D	1104	ES15X18	2016	ES57(ELCOM)	2030	ET16X15	563	EU16X1	1123	EW16X102	1122	EYZP632	2009
ERB28-04DV	1114	ES15X19	2016	ES57X1	1104	ET16X19	1123	EU16X2	1123	EW16X124	561	EYZP791	2009
ERB28-06D	1104	ES15X20	1617	ES57X2	1104	ET16X20	1123	EU16X7	1104	EW16X135	1104	EYZP808	2023
ERB28-06DV	1104	ES15X22	2009	ES57X4	1104	ET16X21	1123	EU16X8	1101	EW16X160	564	EZ01	1104
ERB29-02	1104	ES15X23	1617	ES57X5	1104	ET41X37	1123	EU16X11	1122	EW16X169	1122	EZ01Z	1104
ERB29-04	1104	ES15X24	1617	ES57X12	1122	ET51X3	1617	EU16X19	1123	EW16X175	1104	EZ061	562
ERB35-02	1102	ES15X30	2016	ES62(ELCOM)	2030	ET51X25	1104	EU16X20	1104	EW16X193	1122	EZ5(ELCOM)	565
ERB43	1104	ES15X37	1617	ES65(ELCOM)	2023	ET52X25	1104	EU57X30	1104	EW16X194	1123	EZ9(ELCOM)	562
ERB43-02	1104	ES15X42	1617	ES69(ELCOM)	2041	ET55-25	1104	EU57X38	1101	EW16X196	1104	EZ12(ELCOM)	563
ERB43-04	1104	ES15X56	2016	ES73(ELCOM)	2016	ET55X25	1104	EU57X40	1104	EW16X200	1104	EZ12A	563
ERB43-04G	1104	ES15X57	2016	ES80(ELCOM)	2020	ET55X29	1104	EU-Z	1104	EW16X202	1114	EZ15(ELCOM)	564
ERB44-02	1104	ES15X58	1617	ES81(ELCOM)	2027	ET57X25	1104	EUZ	1104	EW16X205	562	EZ15A	564
ERB44-04	1104	ES15X60	2016	ES85(ELCOM)	1617	ET57X26	1101	EV15	564	EW16X209	1114 N6	EZ150	564
ERB44-06	1104	ES15X62	1617	ES86(ELCOM)	2016	ET57X29	1104	EVD-3	1122	EW16X218	1123	F0015	2035
ERB44-10	1114	ES15X64	1617	ES90	2043	ET57X30	1104	EVM511	1104	EW16X221	1104	F0021	2035
ERB81	1114	ES15X65	2016	ES95	2055	ET57X33	1104	EVR5	561	EW16X223	565	F-05	1104
ERB1201	1114	ES15X66	2016	ES95(ELCOM)	2055	ET57X35	1104	EVR5A	561	EW16X226	1122	F05	1104
ERB4302	1104	ES15X67	2009	ES1627	1122	ET57X38	1104	EVR5B	561	EW16X227	1122	F031	1122
ERB4304	1104	ES15X68	1617	ES3266	2016	ET200	1104	EVR6	561	EW16X231	1122 N2	F046	1122
ERC-01-02	1114	ES15X70	1617	ES10186	2016	ET400	1104	EVR6A	561	EW16X232	1122 N1	F060	1122
ERC01-02	1114	ES15X76	1617	ES10187	2009	ET600	1104	EVR6B	561	EW16X257	1122	F084	1122
ERC01-02F	1114	ES15X79	2016	ES10188	2009	ET35035	2023	EVR9	562	EW16X301	564	F1	2009
ERC01-02L	1114	ES15X80	2016	ES10189	1123	ET234854	2009	EVR9A	562	EW16X303	1122	F1(DIODE)	1104
ERC01-02L-12	1114	ES15X81	2016	ES10222	2009	ET238894	1617	EVR9B	562	EW16X305	1122	F1-02	1104
ERC01-02L12	1143	ES15X82	2016	ES10223	2009	ET329218	2009	EVR11	563	EW16X306	1104	F1-04	1104
ERC01-04	1114	ES15X83	1617	ES10224	1123	ET350335	2023	EVR11A	563	EW16X308	1104	F1-06	1104
ERC01-04F	1114	ES15X84	1617	ES10225	1123	ET368021	1617	EVR11B	563	EW16X309	1104	F1-08	1104
ERC01-06	1114	ES15X85	1617	ES10231	2016	ET379462	2016	EVR12	563	EW16X311	1123	F2	1104
ERC01-10	1114	ES15X86	2020	ES10232	1617	ET398711	2016	EVR12A	563	EW16X312	1104	F3	1104
ERC04-02	1114	ES15X87	2016	ES10233	1104	ET398777	2016	EVR12B	563	EW16X313	1114	F4	1104
ERC04-02F	1114	ES15X88	2016	ES10234	563	ET412626	1617	EVR15	564	EW16X314	1122 N3	F5	1104
ERC04-04	1114	ES15X90	2023	ES15046	2016	ET491051	2035	EVR15A	564	EW16X324	565	F6	1104
ERC04-04C	1114	ES15X92	2035	ES15047	2016	ET495371	2017	EVR15B	564	EW16X325	1122	F8	1114
ERC04-04F	1114	ES15X93	2030	ES15048	2009	ET517263	2016	EW15X26	2027	EW16X326	1104	F10	1114
ERC04-06	1114	ES15X94	2055	ES15049	2016	ET703844	2009	EW15X55	2023	EW16X330	563	F14	1104
ERC04-10	1114	ES15X96	2016	ES15050	1617	ET703854	2009	EW15X57	2009	EW16X334	1173	F14-C	1104
ERC05-06	1114	ES15X97	2016	ES15052	2016	ET703865	2023	EW15X58	2023	EW16X361	1122 N3	F-14A	1104
ERC05-10	1114	ES15X101	2023	ES15054	1123	ET703874	2009	EW15X59	2027	EW16X370	563	F14A	1104
ERC0402	1114	ES15X102	2016	ES15056	1104	ET703875	2023	EW15X66	2009	EW16X376	562	F14AP	1104
ERC0508	1114	ES15X104	2016	ES15057	1122	ET703894	2020	EW15X130	2016	EW16X490	1122	F14B	1114
ERC0510	1114	ES15X105	2016	ES15102	2016	ET704334	2016	EW15X135	2023	EW84X453	1770	F14BP	1104
ERC0510V	1114	ES15X106	2009	ES15226	2030	ETD-1N60	1123	EW15X144	2023	EW84X483	038	F-14C	1104
ERC16-06	1104	ES15X107	2023	ES15227	2017	ETD1S2788	1122	EW15X148	2023	EW162	2016	F14C	1114
ERC16-10	1114	ES15X119	2016	ESA-06	1173	ETD-10D1	1104	EW15X158	2009	EW163	2016	F14CP	1104
ERC24-04	1104	ES15X120	2016	ESA06	1173	ETD-10D2	1104	EW15X160	2009	EW164	2016	F14D	1114
ERC24-06	1104	ES15X121	2016	ESA10-98	1104	ETD-5046	1123	EW15X171	2009	EW165	2016	F14DP	1104
ERC24-06S	1104	ES15X122	2016	ESA10-99	1104	ETDCDG21	1122	EW15X171(,2SD637)		EW165V	1617	F14E	1114
ERC25-04	1104	ES15X123	2016	ESA-10C	1104	ETD-RD9.1FB	562		2009	EW166	1123	F14F	1114
ERC25-06	1104	ES15X127	2009	ESA-10N	1104	ETD-SD46	1123	EW15X172	2009	EW167	1122	F14H	1114
ERC44-04	1104	ES15X128	2023	ESK-1	1104	ETD-SG9150	1122	EW15X172(,2SD636QRS)		EW168	1123	F14J	1114
ERC81-004	1114	ES16(ELCOM)	2041	ESK1	1104	ETD-V06C	1104		2009	EW169	1114	F14M1	561
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F20-1002	2016	F3519	1617	FCS1168E641	2016	FD3405	1101	FM3014	2016	FS32669	2016	FU1NA	1104
F20-1003	2016	F3530	2016	FCS1168F813	1617	FD6451	1122	FMPS-A20	2009	FS35529	2016	FU1U	1104
F20-1004	2016	F3532	1617	FCS1168G	1617	FD6489	1122	FMPSA20	2009	FS326690	2016	FU-IM	1104
F20-1005	2016	F3535	2016	FCS1168G704	1617	FDH-9	1122	FN-51-1A	2009	FSA1169	1101	FUIU	1104
F20-1010	1123	F3559	2023	FCS1170F	2023	FDH300	1102	FO5	1104	FSA1202	1101	FV-22	561
F20-1012	1123	F3560	2030	FCS1225E	2016	FDH333	1102	FOR1A411E	1067	FSC9015D	2023	FV-23	1123
F20-1013	1123	F3561	2030	FCS1227E	2016	FDH400	1102	FOR2D	1067	FSE1001	2016	FV23	1123
F20-1014	1123	F3565	2030	FCS1227E814	2016	FDH444	1122	FOS100	2016	FSE3001	2016	FV-24	561
F20-1015	1104	F3569	1617	FCS1227F	2016	FDH666	1122	FOS101	2016	FSE5002	2016	FV24	1122
F20-1016	1104	F3570	2023	FCS1227F743	2016	FDH694	1122	FO5104	2009	FSP-1	2016	FV914	2016
F24T-011-013	2016	F3571	1617	FCS1227G	2016	FDH900	1122	FP50801	2016	FSP1	2016	FV918	2016
F24T-011-015	2058	F3574	2016	FCS1227G810	2016	FDH999	1122	FPN2907	2023	FSP-42	2016	FV2369A	2016
F24T-016-024	2016	F3589	2030	FCS1229	2030	FDH1000	1101	FPN3563	2016	FSP-42-1	2016	FV2484	2016
F24T-029-001	1617	F3590	2023	FCS1229F	1617	FDH6229	1122	FPR40-1001	1617	FSP42-1	2016	FV3014	2016
F82Z	1114	F3597	2023	FCS1229G	1617	FDM1006	1122	FPR40-1003	2016	FSP-164	2016	FV3299	2016
F96N	2016	F4001	2401	FCS8050C	2009	FDM1007	1122	FPR40-1006	1123	FSP164	2016	FV3300	2016
F101	1114	F4011	2411	FCS8550	2023	FDN400	1102	FPR50-1001	1617	FSP-165	2016	FW50	1171
F102	1114	F4011PC	2411	FCS8550C	2023	FDN444	1102	FPR50-1002	1617	FSP165	2016	FW100	1104
F104	2055	F4013	2413	FCS9011E	2009	FDN600	1122	FPR50-1003	2016	FSP-166	2016	FW300	1173
F105	2055	F4017	2417	FCS9011F	2009	FDN666	1122	FPR50-1004	2016	FSP166	2016	FW400	1104
F106	2055	F4049	2449	FCS9011G	2009	FE 100	2035	FPZ6V2	561	FSP-166-1	2016	FW500	1104
F113A	1104	F4049PC	2449	FCS9011H	2009	FE100	2035	FPZ9V1	562	FSP166-1	2016	FW600	1104
F113B	1104	F4706	2016	FCS9012	2023	FE-100(IR)	2035	FPZ12	563	FSP-215	2016	FW600A	1104
F113D	1104	F4709	2030	FCS-9012F	2023	FE100(IR)	2035	FR061	1104	FSP-242-1	2016	FWB3003	1173
F113E	1104	F5404DM	1802	FCS-9012G	2023	FE 100A	2035	FR062	1104	FSP242-1	2016	FWB3004	1173
F114E	1104	F7316	2009	FCS9012G	2023	FE100A	2035	FR063	1104	FSP-270-1	2016	FWL50	1171
F115	2041	F-7404PC	1802	FCS9012H	2023	FE-102	2035	FR064	1104	FSP-288-1	1104	FWL100	1104
F116	2041	F9014D	2009	FCS9012HE	2023	FE102	2035	FR065	1104	FSP-289-1	2016	FWL200	1104
F117	2055	F9600	1617	FCS9012HG	2023	FE-102A	2035	FR-1	1104	FST2	1104	FWL300	1104
F117A	2055	F9623	1617	FCS9013	2009	FE102A	2035	FR1	1104	FST3	1104	FWL400	1173
F118	2055	F9623(G.E.)	2016	FCS-9013F	2009	FE-104A	2035	FR1-54A	1104	FT001	2030	FWLA50	1171
F118A	2055	F9623F	2009	FCS9013F	2009	FE104A	2035	FR1D	1122	FT002	2030	FWLA100	1171
F119	2055	F9625	2016	FCS9013F G	1617	FE-400	2035	FR-1H	1104	FT003	2030	FWLA300	1173
F119A	2055	F10124	1104	FCS9013FG	1617	FE400	2035	FR1H	1104	FT004	2030	FWLA400	1173
F120	2055	F10148	1104	FCS-9013G	2009	FE402	2035	FR-1H(M)	1104	FT004A	2030	FWLC300	1173
F120A	2055	F10180	1104	FCS9013G	2009	FE-402A	2035	FR-1HM	1104	FT005	1617	FWLC400	1173
F121-546	2009	F-12227	1104	FCS9013H	2009	FE402A	2035	FR-1M	1104	FT006	1617	FX709	2016
F121-433804	1617	F-12737	2020	FCS9013HG	2009	FE-404A	2035	FR1M	1104	FT008	1617	FX914	2058
F136	1123	F-13316	2020	FCS9013HH	2009	FE404A	2035	FR1MB	1104	FT008A	1617	FX918	2058
F209	2023	F-13317	2020	FCS9014	2009	FE4302	2062	FR-1MD	1104	FT0019H	2030	FX2368	2009
F215-1001	2016	F-14168	1122	FCS9014(B)	2009	FE5245	2035	FR1MD	1104	FT0019M	2023	FX2369A	2058
F215-1002	2016	F-14959	1122	FCS9014B	2009	FF400	2035	FR-1N	1104	FT023	1617	FX2894	2023
F215-1003	2016	F-15023	1122	FCS9014C	2016	FG-2N	1114	FR-1P	1104	FT024	1617	FX3013	2058
F215-1004	2016	F-15024	1122	FCS9014D	2016	FG-2NA	1104	FR1P	1104	FT025	1617	FX3014	2058
F215-1005	2016	F15810	2016	FCS9015B	2023	FI1023	2016	FR-1U	1104	FT026	1617	FX3300	2009
F215-1010	1123	F15835	2016	FCS9015C	2023	FIP100D	1144	FR1U	1104	FT027	2030	FX3964	2023
F215-1012	1123	F15840	1617	FCS9015D	2023	FJH131	1801	FR-2	1104	FT052	2023	FX4046	2009
F215-1013	1123	F15840-1	1617	FCS9016	2016	FJH231	1801	FR2	1104	FT053	1617	FZ5.1T5	565
F215-1014	1123	F15841	2016	FCS9016D	2016	FJH241	1802	FR2-02	1104	FT-1	1104	FZ5.1T10	565
F215-1016	1104	F-16147	1122	FCS9016E	2016	FJH311	1801	FR2-02(DIO)	1104	FT1	1122	FZ6.2T10	561
F215-1017	1104	F20303	1123	FCS-9016F	2009	FJJ141	1808	FR2-02C	1104	FT-1N	1104	FZ6.5T10	561
F222	1617	F21490	2023	FCS9016F	2009	FJT1100	1122	FR2-06	1114	FT1N	1104	FZ12A	563
F266A	1020	F27002	1104	FCS-9016G	2009	FJT1101	1101	FR2-020	1104	FT-10	1104	FZ12T5	563
F-302-1	2009	F50116	2016	FCS9016G	2016	FJT1118	1101	FR2-0Z	1104	FT10	1114	FZ12T10	563
F302-1	1617	F69916	2030	FCS9016H	2016	FJT1134	1101	FR-2M	1104	FT14A	1104	FZ15A	564
F302-2	1617	F75116	1617	FCS9018	2016	FK914	2016	FR2M	1104	FT19H	2023	FZ15T5	564
F-302-1532	2009	FA-1	1123	FCS9018D	2016	FK918	2016	FR2P	1104	FT19M	2023	FZ15T10	564
F302-1532	1617	FA-4	1114	FCS9018E	2016	FK2369A	2016	FR2PC	1144	FT34G	2035	FZ101	2009
F-302-2532	2009	FA4	1104	FCS-9018F	1617	FK2484	2016	FR10	1104	FT34Y	2035	FZ901	565
F302-2532	1617	FA6	1104	FCS9018F	2016	FK3014	2016	FR101	1104	FT40	2009	FZ1215	563
F306-001	1617	FA8	1114	FCS9018G	2016	FK3299	2016	FR102	1104	FT45	2016	G00004A	1123
F306-022	1617	FA111	1122	FCS9018H	2016	FK3300	2016	FR103	1104	FT107B	2016	G00008A	1123
F336GD	030	FA2310E	1122	FCS9066	2016	FK3484	2009	FR104	1104	FT118	2016	G00-003-A	1123
F336HD	036	FA2310U	1122	FD3	1104	FK3494	2009	FR105	1104	FT340	2017	G00-004-A	1123
F366	1617	FA2320E	1122	FD6	1104	FLH101	1801	FR-202	1104	FT402	2055	G00-008-A	1123
F501	2016	FA2320U	1122	FD63	1114	FLH201	1801	FRB12-01RK	1102	FT709	2016	G00-009-A	1123
F501(ZENITH)	2016	FA2330E	1122	FD100	1122	FLH211	1802	FRH-101	1104	FT1315	2016	G00-012-A	1122
F501-16	2016	FA2330U	1122	FD103	1114	FLH381	1822	FR-U	1104	FT1324B	2016	G00-012A	1122
F502	2016	FA8005	563	FD111	1122	FLJ161	1808	FS19	1123	FT1324C	2016	G00-013-B	1123
F502(ZENITH)	2016	FA8006	563	FD200	1122	FLL121T	1805	FS-1133	2009	FT1341	2023	G00-014-A	1122
F523	2016	FA8007	563	FD222	1122	FLL121V	1805	FS1168E641	2009	FT1746	2023	G00-502-A	1104
F531	1617	FA8008	563	FD300	1102	FM1J2	1104	FS1168F813	2009	FT3055	2020	G00-502A	1104
F549-1	2023	FA8009	564	FD333	1122	FM211N	1104	FS1221	1617	FT3567	2009	G00-534-A	1104
F572-1	1617	FA8010	564	FD400	1102	FM708	2016	FS1308	2016	FT3568	2009	G00-535-B	1104
F587	1617	FA8011	564	FD600	1122	FM709	2016	FS1331	2030	FT3569	2009	G00-535A	1104
F625-1	2030	FA8012	564	FD777	1122	FM720A	2016	FS1682	2016	FT3638	2023	G00-536-A	1104
F699	2023	FB-200	1173	FD-1029-4	2023	FM870	2016	FS1974	1617	FT3643	1617	G00-536A	1104
F1462	2035	FB200	1173	FD-1029-4A	2023	FM871	2016	FS2003-1	2041	FT4354	2023	G00-543-A	1104
F1463	2035	FB1043	1123	FD-1073-BF	1801	FM910	2016	FS2043	2009	FT4355	2023	G00-551-A	1104
F2427	2016	FB6853	1617	FD-1073-BJ	1802	FM911	2016	FS3266	2016	FT5040	2023	G00-803-A	1122
F2443	1617	FBTX070	2030	FD-1073-BM	1822	FM914	2016	FS3683	2016	FT5041	2023	G00502A	1104
F2448	1617	FC91	1122	FD1559	1144	FM1613	2016	FS-7812	1771	FTR129	2058	G00515A	1617
F2450	2016	FC5006	2016	FD1599	1104	FM1711	2016	FS7812	1771	FU1M	1104	G00535	1104
F2584	1617	FCD0003PC	1122	FD1708	1122	FM2242	1617	FS24226	2023	FU-1MA	1104	G01	1104
F2633	2016	FCD0014NCS	1122	FD1843	1122	FM2368	2016	FS24954	2023	FU-1N	1104	G01-036-G	562
F2634	2016	FC5916F	2058	FD1980	1123	FM2369	2016	FS27233	2030	FU1N	1104	G01-036-H	562
F2636	2016	FCS1168E	2016	FD3389	1104	FM2846	2016	FS27604	2009	FU-1NA	1104	G01-036A	561

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G01-037-A	563	G3D	1143	G1010	1123	GE-17	2007	[illegible]	1104	GES5827A	2009	GI500	1141
G01-083-A	1122	G3G	1144	G1010A	1122	GE-18	2030	GE-7480	1801	GES5828	2016	GI501	1142
G01-209-B	1122	G4	1104	G1149	1104	GE-19	2041	GE-7484	1802	GES5828A	2016	GI502	1142
G01-209B	1122	G4A	1114	G1179	1104	GE-20	1617	GE-7486	1822	GES6000	2009	GI504	1144
G01-803-A	1122	G4B	1143	G1242	1104	GE-22	2023	GE-7487	1825	GES6001	2023	GI810	1104
G01-803A	1122	G4D	1143	G1288	1123	GE-26	2027	GE-7490	1808	GES6002	2009	GI811	1104
G02	1104	G4G	1144	G1501	1102	GE-28	2017	GEA6.2(E)B2	561	GES6003	2023	GI812	1104
G03-017-B	2023	G4.7T5	565	G9423	2058	GE-37	2055	GE-CR3	1101	GES6004	2009	GI814	1104
G03-407-Y	2023	G4.7T10	565	G9600	1617	GE-38	2055	GECR-3	1101	GES6005	2023	GI816	1104
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HA17555	1723
HA17555PS	1723
HA17558	038
HA17723G	1740
HA17741G	007
HA17741GS	007
HA17741PS	007
HA17805	1770
HA17805H	1770
HA17805P	1770
HA17812P	1771
HA17815P	1772
HA17901G	1712
HA17902G	1711
HA17902P	1711
HAB005	1114
HAR10	1104
HAR15	1104
HAR20	1104
HB2	1104
HB3	1101
HB12B	563
HB50	1114
HB600	1114
HB800	1114
HB1000	1114
HBC4001AD	2401
HBC4001AF	2401
HBC4001AK	2401
HBC4011AD	2411
HBC4011AF	2411
HBC4011AK	2411
HBC4013AD	2413
HBC4013AF	2413
HBC4013AK	2413
HBC4017AD	2417
HBC4017AF	2417
HBC4017AK	2417
HBF4001	2401
HBF4001A	2401
HBF4001AE	2401
HBF4001AF	2401
HBF4009A	2449
HBF4011	2411
HBF4011A	2411
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HBF4013	2413
HBF4013A	2413
HBF4013AE	2413
HBF4013AF	2413
HBF4017	2417
HBF4017A	2417
HBF4017AE	2417
HBF4017AF	2417
HBF4049A	2449
HC-00227	1617
HC-00268	2030
HC-00372	2058
HC-00373	2016
HC-00380	2016
HC-00394	2009
HC-00458	2009
HC-00460	2009
HC-00461	2009
HC-00509	2009
HC-00535	2058
HC-00536	2016
HC-00537	2009
HC-00644	2030
HC-00668	2016
HC-00693	2009
HC-00711	2016
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HC-00839	2009
HC-00871	2009
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HC-00921	2009
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HC-01047	2016
HC-01060	2017
HC-01098	2017
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HC-01317	2030
HC-01318	2009
HC-01327	2016
HC-01335	2016
HC-01359	2016
HC-01390	2009
HC-01417	2016
HC-01820	2009
HC-01830	2016
HC-30	1104
HC30	1114
HC-39	1104
HC39	1114
HC50	1114
HC-56	2009
HC67	1104
HC67F	1114
HC-68	1104
HC68	1104
HC69	1104
HC71	1104
HC72	1114
HC72F	1114
HC73	1114
HC73F	1114
HC80	1104
HC206	2016
HC371	2009
HC372	2009
HC-373	2009
HC373	2009
HC380	2016
HC381	2016
HC394	2016
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HC495	2020	HD7490A	1808	HE-234-267(,W103-254)		HEP135	1123	HEPP5002	134	HEPS0033	2058	HF-20047	1104
HC500	1104	HD7490AP	1808		1104	HEP154	1104	HEPR0050	1104	HEPS0034	1617	HF-20048	1122
HC-535	2009	HD14001B	2401	HE-234-274	1617	HEP155	1104	HEPR0051	1104	HEPS0035	2009	HF-20050	1104
HC535	2016	HD14011B	2411	HE-234-275	2009	HEP156	1102	HEPR0052	1104	HEPS0036	2009	HF-20052	1104
HC535A	2016	HD14011BP	2411	HE-234-290	2009	HEP157	1104	HEPR0053	1104	HEPS0037	2023	HF-20060	1122
HC535B	2016	HD14013B	2413	HE-234-299	1122	HEP158	1104	HEPR0054	1104	HEPS0038	2009	HF20060	1122
HC-537	2016	HD14017B	2417	HE-234-353	1104	HEP159	1114	HEPR0055	1114	HEPS0040	2009	HF-20061	1122
HC537	2016	HD14049UB	2449	HE-234-522	2009	HEP160	1114	HEPR0056	1114	HEPS3045	2017	HF-20063	1122
HC539	2009	HD14066B	2466	HE-234-523	2009	HEP161	1141	HEPR0070	1143	HEPS3060	2020	HF-20064	1122
HC545	2016	HD14066BCP	2466	HE-234-526	1104	HEP162	1143	HEPR0071	1143	HEPS3061	2020	HF-20065	562
HC-561	2009	HD14066BP	2466	HE-417-821	2009	HEP166	1101	HEPR0072	1144	HEP-S5014	2030	HF20066	1104
HC561	2009	HD75188	2520	HE-417-822	2023	HEP170	1114	HEPR0080	1114	HEPS5021	2055	HF-20067	1104
HC600	1114	HD75188P	2520	HE-417-865	2023	HEP175	1171	HEPR0081	1114	HEPS5026	2030	HF-20071	1114
HC645	2016	HD75189	2521	HE-417-874	1604	HEP177	1173	HEPR0082	1114	HEP-S7002	2041	HF-20083	1104
HC-668	2016	HD75189P	2521	HE-417-875	2009	HEP243	2030	HEPR0084	1114	HEPS7002	2041	HF-20084	1104
HC668	2016	HD200207	1104	HE-417-923	2055	HEP248	2043	HEPR0086	1114	HEPS7003	2043	HF-20088	1123
HC670	1104	HD200301	1104	HE-417-937	2009	HEP312	2016	HEPR0090	1114	HEP-S7004	2041	HF-20095	1122
HC680	1104	HD-1000101	1123	HE-442-21	038	HEP320	1067	HEPR0091	1114	HEPS7005	2055	HF-20123	1122
HC700	1104	HD1000101	1123	HE-442-22	007	HEP340	1000	HEPR0092	1114	HEPS7006	2055	HF-20124	1122
HC710	1104	HD1000101-0	1123	HE-442-54	1770	HEP602	565	HEPR0094	1114	HEPS9150	2068	HF200191A	2035
HC720	1114	HD1000105	1123	HE-442-63	1772	HEP604	563	HEPR0096	1114	HEP-Z0210	565	HF200191A/	2035
HC730	1114	HD1000105-0	1123	HE-442-602	1711	HEP607	564	HEPR0097	1114	HEPZ0210	565	HF200191A-0	2035
HC-772	2009	HD1000107	1123	HE-442-663	1771	HEP704	2041	HEPR0098	1114	HEPZ0210A	565	HF200191A0	2035
HC772	2016	HD1000107-0	1123	HE-442-674	1771	HEP705	2041	HEPR0170	1114	HEP-Z0211	565	HF200191AO	2035
HC784	2016	HD1000301	1123	HE-442-688	1721	HEP708	2023	HEPR0180	1114	HEPZ0211	565	HF200191B-0	2035
HC800	1114	HD1000302	1123	HE-443-7	1808	HEP709	2058	HEP-R0604	1114	HEPZ0211A	565	HF200191B0	2035
HC829	2016	HD1000303	1123	HE-443-36	1805	HEP711	2030	HEPR0801	1171	HEP-Z0214	561	HF200191BO	2035
HC-1000	2016	HD1000303-0	1123	HE-443-45	1822	HEP716	2023	HEPR0802	1171	HEPZ0214	561	HF200301B	2035
HC-50102	1067	HD1000320	1123	HE-443-603	2411	HEP717	2023	HEPR0804	1173	HEPZ0214A	561	HF200301B0	2035
HC10004110	1801	HD-2000106	1122	HE-443-607	2413	HEP718	2016	HEPR0841	1171	HEP-Z0219	562	HF200301BO	2035
HCC4001BD	2401	HD2000106	1122	HE-443-629	1808	HEP719	2058	HEPR0842	1171	HEPZ0219	562	HF200301C-0	2035
HCC4001BF	2401	HD2000108	1114	HE-443-695	2401	HEP720	2058	HEPR0845	1173	HEPZ0219A	562	HF200301C-O	2035
HCC4001BK	2401	HD2000110-0	1104	HE-443-703	2401	HEP721	2016	HEPR0851	1171	HEP-Z0222	563	HF200411B	2035
HCC4011BD	2411	HD2000206	1122	HE-443-794	2520	HEP722	2016	HEPR0852	1171	HEPZ0222	563	HF200411C0	2035
HCC4011BF	2411	HD2000301	1104	HE-443-794(,75188N)		HEP723	1617	HEPR0855	1173	HEPZ0222A	563	HF309301E	2016
HCC4011BK	2411	HD2000301-0	1104		2520	HEP724	1617	HEPR1001	1067	HEP-Z0225	564	HF2000411B	2035
HCC4013BD	2413	HD2000305	1104	HE-443-794(,MC1488)		HEP725	2009	HEPR1002	1067	HEPZ0225	564	HF-D5410	1122
HCC4013BF	2413	HD2000307	1104		2520	HEP726	2016	HEPR1003	1067	HEPZ0225A	564	HF-MV2	1122
HCC4013BK	2413	HD-2000308	1104	HE-443-795	2521	HEP727	2016	HEPR1004	1067	HEP-Z0405	565	HF-SD1	1104
HCC4017BD	2417	HD2000308	1104	HE-443-795(,MC1489A)		HEP728	1617	HEPR1005	1067	HEPZ0405	565	HF-SD-1A	1104
HCC4017BF	2417	HD2000413	1104		2521	HEP729	1617	HEPR1215	1067	HEP-Z0406	565	HFSD1A	1104
HCC4017BK	2417	HD2000501	1102	HE-443-795		HEP730	2016	HEPR1216	1067	HEPZ0406	565	HFSD1B	1104
HCC4066BF	2466	HD2000510	1104	(,SN75189AN)	2521	HEP731	2016	HEPR1217	1067	HEP-Z0408	561	HF-SD-1C	1104
HCF4001BE	2401	HD2000610	1104	HE-443-929	2417	HEP732	2016	HEPR1218	1067	HEPZ0408	561	HFSD12	1114
HCF4001BF	2401	HD2000703	1104	HE-443-970	2506	HEP733	2016	HEPR1219	1020	HEP-Z0412	562	HFSG005	1104
HCF4011BE	2411	HD2000803	1104	HE-1024	1123	HEP734	2016	HEPR1711	1000	HEPZ0412	562	HG1090	1123
HCF4011BF	2411	HD2000903	1104	HE-10001	1123	HEP735	2009	HEPR1712	1000	HEP-Z0415	563	HG5001	1123
HCF4013BE	2413	HD2001005	1122	HE-10002	1123	HEP736	2009	HEPR1713	1000	HEPZ0415	563	HG5002	1123
HCF4013BF	2413	HD2001105	1122	HE-10003	1123	HEP737	2016	HEPR1715	1000	HEPZ0416	563	HG5003	1123
HCF4017BE	2417	HD2001310	1104	HE-10024	1123	HEP738	2009	HEPR9002	1101	HEPZ0417	564	HG5004	1123
HCF4017BF	2417	HD3000101-0	563	HE-10025	1123	HEP739	2023	HEPR9003	1101	HEP-Z0418	564	HG5005	1123
HCF4049BE	2449	HD-3000301	1104	HE-10027	1123	HEP801	2035	HEP-R9134	1123	HEPZ0418	564	HG5006	1123
HCF4049BF	2449	HD3000401	562	HE-10030	1122	HEP802	2035	HEPR9134	1123	HEPZ0419	564	HG5007	1123
HCF4066BE	2466	HD3001109	564	HE-10044	1123	HEP803	2035	HEPR9134A	1123	HEPZ1409	565	HG5008	1123
HCF4066BF	2466	HD3002409	563	HE-15188	1123	HEPC3000L	1801	HEP-R9135	1123	HE-SD1	1104	HG5009	1123
HCV	1104	HD3003309	565	HE-15426	1123	HEPC3000P	1801	HEPR9135	1123	H-EX0019GE	564	HG5020	1123
HD-00227	1617	HD4000109	1123	HE-15446	1123	HEPC3001L	1801	HEPR9136	1123	H-EX0047CE	563	HG5078	1123
HD-1	1104	HD10001010	1123	HE-20011	1104	HEPC3001P	1801	HEPR9137	1122	HF-0SW05	1104	HG5079	1123
HD10-001-01	1123	HD10001050	1123	HE-CD0000	1123	HEPC3004L	1802	HEPS0002	2009	HF0W05	1104	HG5085	1123
HD20-003-01	1104	HD10002020	1123	HEF4001BD	2401	HEPC3004P	1802	HEPS0004	2009	HF-1A	1104	HG5088	1123
HD7401P	1801	HD20001100	1104	HEF4001BP	2401	HEPC3800L	1808	HEP-S0006	2023	HF-1S334	562	HG5808	1123
HD2000	1104	HD20001210	1122	HEF4001P	2401	HEPC3800P	1808	HEPS0006	2023	HF-1S339	562	HGR1	1104
HD2000-301	1104	HD20003010	1104	HEF4011BD	2411	HEPC4001P	2401	HEPS0008	2058	HF2	2009	HGR2	1104
HD2503	1801	HD20005100	1114	HEF4011BP	2411	HEPC6052P	007	HEPS0010	2058	HF3	2009	HGR3	1104
HD2503P	1801	HD20007020	1104	HEF4011P	2411	HEP-C6102P	038	HEPS0011	2009	HF4	2009	HGR4	1104
HD2509	1801	HD20011050	1122	HEF4013BD	2413	HEPC6102P	038	HEPS0015	2009	HF5	2009	HGR-5	1104
HD2509P	1801	HD20023100	1104	HEF4013BP	2413	HEPC6110P	1770	HEP-S0016	2016	HF6	2009	HGR5	1101
HD2519	1808	HD30017090	562	HEF4013P	2413	HEPC6113P	1771	HEPS0016	2016	HF7	2009	HG-R10	1104
HD2519P	1808	HE-0A90	1123	HEF4017BD	2417	HEPC6114P	1772	HEPS0017	2058	HF8	2009	HGR-10	1104
HD2522	1802	HE-1N34	1123	HEF4017BP	2417	HEPC6130P	1723	HEPS0020	2016	HF9	2030	HGR10	1104
HD2522P	1802	HE-1N34A	1123	HEF4017P	2417	HEPC6131P	1723	HEP-S0021	1617	HF11	2017	HGR-20	1104
HD2532	1805	HE-1N60	1123	HEF4049BD	2449	HEPC7400P	1801	HEPS0021	2016	HF15	2017	HGR20	1122
HD2532P	1805	HE-1N60P	1123	HEF4049BP	2449	HEPC7401P	1801	HEPS0022	2009	HF17	2016	HGR-30	1104
HD2550	1822	HE-1S188	1123	HEF4066BD	2466	HEPC7404P	1802	HEP-S0023	2016	HF47	2023	HGR30	1122
HD2550P	1822	HE-1S426	1123	HEF4066BP	2466	HEPC7408P	1822	HEPS0023	2016	HF50	2009	HGR-40	1104
HD4001	2401	HE-1S446	1123	HE-M8489	1122	HEPC7447AP	1805	HEP-S0024	2016	HF57	2020	HGR40	1103
HD4011	2411	HE-56-56	1122	HEP50	2009	HEPC7447P	1805	HEPS0024	2016	HF58	2027	HGR-60	1104
HD4013	2413	HE-56-58	561	HEP52	2023	HEPC7490AP	1808	HEPS0025	2009	HF-10024	1123	HGR60	1104
HD4017	2417	HE-56-73	1122	HEP53	2009	HEPC7490P	1808	HEP-S0026	2023	HF-20004	562	HI03SC	1000
HD4049	2449	HE-56-93	1122	HEP54	2009	HEPD0002	075	HEPS0026	2023	HF-20008	1123	HI03SD	1000
HD6147	1104	HE-57-27	1104	HEP55	2016	HEPF0010	2035	HEP-S0030	1617	HF-20011	562	HI03SG	1000
HD6865	1104	HE-57-42	1114	HEP56	2016	HEP-F0015	2035	HEPS0030	2009	HF-20014	1122	HI03SH	1000
HD7400	1801	HE-57-64	1114	HEP57	2023	HEPF0015	2035	HEP-S0031	2023	HF-20032	1104	HI03SS	1000
HD7400P	1801	HE-57-65	1104	HEP103	561	HEP-F0021	2035	HEPS0031	2023	HF20032	1122	HI13SC	1000
HD7401P	1801	HE-234-264	1104	HEP104	562	HEPF0021	2035	HEP-S0032	2023	HF-20034	1122	HI13SD	1000
HD7404	1802	HE-234-266	563	HEP105	563	HEPF1036	2035	HEPS0032	2023	HF-20041	563	HI13SG	1000
HD7404P	1802	HE-234-267	1104	HEP134	1123	HEPP0003	2016	HEP-S0033	2058	HF-20042	1104	HI13SH	1000

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HI13SS	1000	HP5082-0133	1122	HR-200	1143	HSP1001	1122	HT303941B	2016	HT308281B	2009	HT8001610	2016
HI23SC	1000	HP5082-0134	1122	HR600	1114	HSP1007	1122	HT304508K	2009	HT308281BO	2009	HT8001710	2016
HI23SD	1000	HP5082-2800	1122	HR800	1114	HSP1010	1122	HT304531	1617	HT308281C	2009	HT8001810	1617
HI23SG	1000	HP5082-3001	1122	HR1000	1114	HSP1011	1122	HT304531A	1617	HT308281D	2009	HT9000310	2041
HI23SH	1000	HP5082-3080	1122	HRP22	1104	HSP1013	1122	HT304531B	1617	HT308281G	2009	HT9000410-0	2041
HI23SS	1000	HP35860A	1617	HRP32	1104	HSP1020	1102	HT304531C	1617	HT308281H	2009	HT9000410-O	2041
HI33SD	1000	HR-05A	1104	HS25-1B	1104	HST5001	2016	HT304540A0	2016	HT308281O	2009	HT30373100	1617
HI33SG	1000	HR-2A(PENNCREST)	1104	HS1001	1104	HST-9201	2041	HT304540AO	2009	HT308282A	2009	HT30387100	2016
HI33SH	1000	HR-5A	1104	HS1002	1104	HST-9205	2041	HT304540B0	1617	HT308282A-0	2009	HT30733100	2016
HI33SS	1000	HR5A	1104	HS1003	1104	HST-9206	2041	HT304540BO	2009	HT308282A-O	2009	HT30945120	2009
HI43SC	1000	HR5A8E	1104	HS1004	1122	HST-9210	2041	HT304580	1617	HT308282B	2016	HT31909100	2009
HI43SD	1000	HR-5AX2	1104	HS1005	1122	HT100	2023	HT304580A	1617	HT308291A	1617	HT32362280	2016
HI43SG	1000	HR-5B	1104	HS1006	1122	HT101	2023	HT304580B	1617	HT308291A-0	2016	HV0000105-0	1104
HI43SH	1000	HR5B	1104	HS1007	1104	HT102	2009	HT304580C0	1617	HT308291A-O	1617	HV0000202	1123
HI43SS	1000	HR10	1104	HS1008	1104	HT103	2009	HT304580CO	2009	HT308291B	1617	HV0000302	2016
HIFI	1104	HR-11	1617	HS1009	1104	HT400	1617	HT304580K	1617	HT308291B-0	1617	HV0000705	1104
HIT9014N-C	2009	HR11	1104	HS1010	1104	HT401	1617	HT304580Y0	1617	HT308291B0	2009	HV00001050	1122
HK-00049	2035	HR-11A	1617	HS1011	1104	HT30491C	2030	HT304580YO	2009	HT308291B-O	2009	HV-15	1123
HK-00330	2035	HR11A	2009	HS1012	1104	HT30494	2041	HT304580Z	1617	HT308291BO	2009	HV15	1123
HKT-158	2009	HR-11B	1617	HS1020	1104	HT30494X	2041	HT304581	1617	HT308291C	2009	HV-23BL	1123
HKT-161	2009	HR11B	2009	HS-1168	1617	HT31041CO	2016	HT304581A	1617	HT308291D0	2009	HV-23G(BL)	1122
HL18998	1801	HR-12	2030	HS-1225	2016	HT36441B	2016	HT3045B1B	1617	HT308301B0	2020	HV-25	1122
HL19000	1802	HR-13	1617	HS-1226	2016	HT38281D	2009	HT304581B-0	1617	HT309002A0	2016	HV25	1617
HL19015	1B0B	HR13	1104	HS-1227	2016	HT104861	2030	HT304581B-O	2009	HT309291C	2016	HV-25(DIODE)	1122
HL55763	1822	HR-13A	1617	HS-1229	1617	HT104861A	2030	HT304581C	1617	HT309291E	2016	HV25(HITACHI)	1122
HL55862	1802	HR13A	2009	HS2047	565	HT104B61B	2030	HT304601B0	2009	HT309301C	2016	HV-25(RCA)	1122
HL56420	1801	HR-14	2016	HS2051	565	HT104941B-0	2023	HT304601BO	2009	HT309301D	2016	HV-26	1104
HL56421	1802	HR14	2009	HS2062	561	HT104941B-O	2023	HT304601C0	2016	HT309301E	2016	HV-26G	1104
HM9.1	562	HR-14A	1617	HS2091	562	HT104941C-0	2023	HT304601CO	2009	HT309301F	2016	HV-27	1122
HM9.1A	562	HR14A	2009	HS2120	563	HT104941C0	2023	HT304611B	2016	HT309451L0	2009	HV46#OR#(DIODE)	1104
HM9.1B	562	HR-15	2016	HS2150	564	HT104941C-O	2023	HT304861	2030	HT309451R0	2009	HV-46GR	1104
HM12	563	HR-15A	1617	HS3103	1104	HT104942A	2023	HT304861A	2030	HT309452AO	2009	HV-100	1104
HM12A	563	HR15A	2009	HS3104	1104	HT104951A-0	2023	HT304B61B	1617	HT309680B	2030	HV-801	1123
HM12B	563	HR-16	1617	HS3105	1122	HT104951B	2023	HT304941X	2041	HT309714A-0	2030	HW9.1	562
HM15	564	HR16	2009	HS3108	1114	HT104951B-0	2023	HT304961C-0	2017	HT309841B0	2030	HW9.1A	562
HM15A	564	HR-16A	1617	HS3110	1114	HT104951C	2023	HT304961C-O	2017	HT309841BO	2030	HW9.1B	562
HM15B	564	HR16A	2009	HS7047	565	HT105611	2023	HT304971A	2030	HT309842A-0	1617	HW9.81B	562
HM4864-3	2506	HR-17	1617	HS7051	565	HT105611A	2023	HT304971A0	2030	HT309B42A-O	2030	HW11B	563
HM4864P-2	2506	HR17	2009	HS7062	561	HT105611B	2023	HT304971AO	2030	HT310001F	2016	HW12	563
HMG251	1122	HR-17A	1617	HS7091	562	HT105611B0	2023	HT304971B	2030	HT310002A	2016	HW12A	563
HMG252	562	HR17A	2009	HS7120	563	HT105611BO	2023	HT305351B0	2016	HT311621B	2020	HW12B	563
HMG625	1122	HR-18	1617	HS7150	564	HT105611C	2023	HT305351C0	2016	HT312131C0	2009	HW15	564
HMG625A	1122	HR18	2009	HS8407	2055	HT105612B	2023	HT305351CO	2009	HT313171R	2009	HW15A	564
HMG789	1122	HR-18A	1617	HS9010	1122	HT105621B-0	2023	HT305361E	2009	HT313172A	2009	HW15B	564
HMG790	1122	HR18A	2009	HS9502	1122	HT105621B0	2023	HT305361G	2009	HT313181C	2030	HX50001	2016
HMG791	1122	HR-19	1617	HS9503	1122	HT105621BO	2023	HT305371E	1617	HT313271T	2016	HX50002	1617
HMG792	1122	HR19	2009	HS9505	1122	HT105641C	2023	HT305642B	2023	HT313272B	2016	HX50003	2016
HMG811	1122	HR-19A	1617	HS9506	1122	HT105641D	2023	HT306441	2009	HT313591CO	2009	HX-50063	2009
HMG812	1122	HR19A	2009	HS9508	1122	HT105641H	2023	HT306441A	2016	HT313592B	2009	HX-50072	2009
HMG813	1122	HR28	2030	HS9509	1122	HT105642B	2023	HT306441A0	2030	HT316751M0	2009	HX-50091	2058
HMG903	1122	HR29	2030	HS-40014	2009	HT105642CO	2023	HT306441AO	2030	HT318291D0	1617	HX-50092	2009
HMG903A	1122	HR-32	2009	HS-40016	2009	HT106731B	2023	HT306441B	1617	HT31909100	2009	HX-50094	2023
HMG904	1122	HR32	2009	HS-40017	2016	HT106731B0	2023	HT306441B-0	1617	HT401191	2041	HX-50097	2009
HMG904A	1122	HR-36	2009	HS-40019	2016	HT107211T	2023	HT306441B0	1617	HT401191A	2041	HX-50102	1067
HMG905	1122	HR36	2009	HS-40020	2016	HT107331Q0	2023	HT306441B-O	2030	HT401191B	2041	HX-50105	2023
HMG905A	1122	HR-37	1617	HS40021	2016	HT303620B	1617	HT306441BO	2030	HT401193A0	2041	HX-50107	2009
HMG906	1122	HR37	2009	HS40022	2016	HT303711A	2009	HT306441C	1617	HT402352B	2020	HX-50108	2009
HMG906A	1122	HR-38	2009	HS40023	2016	HT303711A-0	2016	HT306441C-0	1617	HT403131E0	2020	HX-50110	2016
HMG907	1122	HR39	2016	HS40024	2016	HT303711A0	2009	HT306441C-O	2030	HT403131EO	2020	HX-50112	2023
HMG907A	1122	HR-47	2016	HS40025	2016	HT303711A-O	2009	HT306442A	2016	HT403132AO	2020	HX-50113	2009
HMG908	1122	HR47	2016	HS40026	2030	HT303711AO	2009	HT306442B	2016	HT403151E	2020	HX-50128	2023
HMG993	1122	HR-48	2009	HS-40027	2023	HT303711B	2009	HT306451	2016	HT403152A	2020	HX-50161	2009
HMG3067	1122	HR48	2009	HS-40030	2016	HT303711B-0	2009	HT306451A	2016	HT600011F	2023	HX-50172	1617
HMG3068	1122	HR-5B	2016	HS-40031	2023	HT303711B0	2009	HT306451B	2016	HT600011H	2023	HX-50176	2023
HMG3123	1122	HR58	2016	HS-40035	2023	HT303711B-O	2009	HT306451H	2009	HT800011F	1617	HX-50181	2009
HMG3124	1122	HR-59	2016	HS-40037	1617	HT303711BO	2009	HT306681C	2016	HT800011G	1617	HY3045801C	1617
HMG3593	1122	HR59	2016	HS-40039	2009	HT303711C	2016	HT306962A-0	2016	HT800011H	1617	HYB4164-P2	2506
HMG3596	1122	HR-60	2009	HS-40040	2023	HT303720A	2016	HT306962A-O	2009	HT800011K	1617	HZ5	565
HMG4147	1122	HR60	2016	HS-40044	1617	HT303721-0	1617	HT307321A	1617	HT800012F	2030	HZ5(H)	565
HMG9010	1122	HR62	2009	HS-40045	2016	HT303721D	1617	HT307321B-0	1617	HT800191H	2030	HZ5B-1	565
HN-00002	1122	HR63	2009	HS-40046	1617	HT303730	1617	HT307321B-O	2009	HT3036201	2009	HZ5B-2	565
HN-00003	1123	HR64	2009	HS-40047	2016	HT303730A	1617	HT307322A	2016	HT3036210	1617	HZ5C	565
HN-00005	563	HR65	2009	HS-40049	2016	HT303801	2016	HT307331B	1617	HT3037010	2016	HZ5C-1	565
HN-00008	1104	HR66	2009	HS40049	2016	HT303801A	2016	HT307331C	2016	HT3037201	2016	HZ-5C1	565
HN-00012	562	HR-68	2020	HS-40050	2023	HT303801A0	2016	HT307331C0	2009	HT3037201A	2016	HZ5C1	565
HN-00018	1101	HR-69	2017	HS-40053	2023	HT303801AO	2009	HT307331CO	2016	HT3037201B	2016	HZ5C1TD	565
HN-00024	562	HR69	2020	HS-40054	2009	HT303801B	2016	HT307341	2030	HT3037210	1617	HZ5C-2	565
HN-00032	1104	HR70	2027	HS-40055	2016	HT303801B-0	2016	HT307341A	2030	HT3037210-0	1617	HZ6C2	561
HN-0047	1122	HR-71	2023	HS-40057	2023	HT303801B0	2016	HT307341B	2009	HT3037210-O	2009	HZ6.2PB	561
HN482764G	1251	HR71	2023	HSC-1	1114	HT303801B-O	2009	HT307341C-0	2009	HT3037310	2016	HZ-9	562
HO91	1123	HR76	2016	HSC1	1114	HT303801BO	2009	HT307341C-O	2030	HT3038013-B	2016	HZ9	562
HO99	1101	HR77	205B	HSCH-1001	1104	HT303B01C	2016	HT307342B	2030	HT3073310	2009	HZ9(H)	562
HP-5A	1104	HR7B	2058	HSFD-1	1114	HT303801C0	2016	HT307342C	2009	HT3082810	2030	HZ-9A	562
HP80	1123	HR79	2016	HSFD-1A	1104	HT303B01CO	2009	HT307720B	2016	HT6000210	2023	HZ9A	562
HP205	1104	HR80	2016	HSFD-1Z	1104	HT30387100	2016	HT307721C	2016	HT8000710	1104	HZ-9B	562
HP50B2-0103	1122	HR81	2030	HSFD-1Z		HT303941	2016	HT307721D	2016	HT8001210	2030	HZ9B	562
HP5082-0132	1122	HR87	2058	(SONY-STANDBY	1104	HT303941A	2016	HT307902B	2020	HT8001310	2030	HZ9B3	562

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HZ9BZ	562	IDAZ3403B	563	IP20-0205	1801	IR106Y2	1067	ITC103-6	1020	J108	2016	J24915	2016
HZ-9C	562	IDAZ3403C	563	IP20-0212	2020	IR106Y3	1067	ITC918A	2016	J139A	1617	J24916	2009
HZ9C-2	562	IDAZ3404	564	IP20-0213	2023	IR106Y4	1067	ITE4416	2035	J187	2016	J24920	1104
HZ9C2	562	IDAZ3404A	564	IP20-0214	2009	IR413	2055	ITH61	1114	J241	1123	J24921	2016
HZ9H	562	IDAZ3404B	564	IP20-0216	1122	IR1603	1020	ITS5817	1141	J242	1123	J24923	2016
HZ9L	562	IDH0742	2466	IP20-0217	2023	IRC5	1067	ITS5818	1141	J243	1123	J24932	2016
HZ9.1PB	562	IE12Z5	563	IP20-0231	2009	IRC10	1067	ITT33	1122	J304	2035	J24933	2016
HZ11C25	563	IE460B	2058	IP20-0282	1122	IRC20	1067	ITT44	1122	J308	2035	J24935	1104
HZ-12	563	IE850	2009	IP20-0283	1123	IRF511	2072	ITT73N	1122	J309	2035	J24939	1104
HZ-12(A)	563	IGL78M05	1770	IP20-0305	2035	IRF513	2072	ITT102	1123	J623	2016	J24940	1104
HZ12(A)	563	IGLA6458DF	038	IP20-0310	1801	IRF523	2072	ITT142	1122	J624	2016	J41642	2041
HZ-12(B)	563	IGLC4011	2411	IP20-0323	2020	IRFE100	2035	ITT181-1	1122	J626	2016	J41645	2023
HZ12(B)	563	IGLC4011B	2411	IP100	1067	IRTR20	2023	ITT200	1122	J627	2016	J101183	1104
HZ-12(C)	563	IGLC4013B	2413	IP101	1067	IRTR22	2009	ITT301	1123	J629	2016	J241054	2009
HZ12(C)	563	IJNJM4558DM	038	IP102	1067	IRTR24	2009	ITT350	1104	J630	2016	J241099	2009
HZ-12A	563	ILM340T12	1771	IP103	1067	IRTR26	2041	ITT413	1122	J685	1123	J241100	1104
HZ12A	563	ILMC14013B	2413	IP104	1067	IRTR31	2023	ITT417	563	J961B(G.E.)	1617	J241102	1104
HZ-12A3	563	IM4004	1103	IP105	1020	IRTR-51	2016	ITT600	1122	J1000-7400	1801	J241142	1104
HZ-12ABC	563	IN60-1	1123	IP106	1020	IRTR51	2016	ITT601	1122	J1000-7404	1802	J241177	2016
HZ12B	563	INC61684	1101	IP7805	1770	IRTR52	2023	ITT718	1123	J1000-7447	1805	J241179	561
HZ-12B2	563	INJ33349	1123	IP7805A	1770	IR-TR53	2030	ITT895	2009	J1000-7490	1808	J241182	1122
HZ-12C	563	INJ60034	1123	IP7812	1771	IRTR53	2030	ITT920	1122	J1000-NE555	1723	J241188	2016
HZ12C	563	INJ60284	1123	IP7815	1772	IRTR-55	2017	ITT921	1122	J2441	1123	J241189	2016
HZ-15	564	INJ61224	1123	IR2A	1104	IRTR55	2017	ITT973	2023	J9680	2023	J241241	2020
HZ15	564	INJ61225	561	IR2E	1104	IRTR57	2020	ITT975	2009	J9697	2023	J241245	1123
HZ15(H)	564	INJ61227	1104	(IR)2SA564A	2023	IRTR-59	2041	ITT2001	1122	J20437	1104	J241251	2009
HZ15-1	564	INJ61433	1122	(IR)2SC281B	2016	IRTR59	2041	ITT2002	1122	J20438	563	J241252	2020
HZ15H	564	INJ61434	1104	(IR)2SC372	2058	IRTR-61	2041	ITT3001	1122	J24262	561	J241253	2023
HZ15L	564	INJ61675	1123	(IR)2SC373	2016	IRTR61	2041	ITT3002	1102	J24458	1617	J241255	2030
HZ15PB	564	INJ61677	1122	(IR)2SC380AO	2058	IRTR-62	2009	ITT3003	1122	J24561	2016	J241256	2030
HZ312A	563	INJ61725	1122	(IR)2SC403A	2016	IRTR62	1617	ITT4000G	1101	J24562	2016	J241259	2023
HZ5230	565	INJ61726	1104	(IR)2SC454B	2009	IRTR63	1617	ITT5059	1104	J24563	2016	J241260	1104
I02A978120	1771	INJ70973	1123	(IR)2SC458B	2009	IRTR-64	2017	ITT5060	1102	J24564	2009	J241275	026
I55D04066B	2466	INJ70980	1123	(IR)2SC460B	2058	IRTR-68	2055	ITT5061	1103	J24565	2009	J310249	1617
I55D040010	2401	INMPD4011BC	2411	(IR)2SC535B	2016	IRTR68	2055	ITT5062	1104	J24567	1123	J310250	1617
I538	1104	INMPD4011BC		(IR)2SC536	2016	IRTR-70	2058	ITT7215	1122	J24570	1104	J320020	1104
I964(6	1122	(,UPD4011BC)	2411	(IR)2SC537B	2009	IRTR70	2016	ITT7400N	1801	J24596	2016	J320041	1123
I2764	1251	INMPD4013BC	2413	(IR)2SC538A	2016	IRTR-71	2016	ITT7401N	1801	J24624	1617	JA101	2023
I2764-2	1251	INMPD4066BC	2466	(IR)2SC644	2016	IRTR71	2016	ITT7404N	1802	J24625	1617	JA101P	2023
I9623	2016	INUPD4011BC	2411	(IR)2SC682A	2058	IRTR76	2020	ITT7408N	1822	J24628	1123	JA101Q	2023
I9631	2030	INUPD4013BC	2413	(IR)2SC710	2009	IRTR77	2027	ITT7447AN	1805	J24630	1104	JA1050	2023
I473688-1	1067	INUPD4066BC	2466	(IR)2SC717	2009	IRTR-80	2016	ITT7490N	1808	J24631	561	JA1050G	2023
IC-20	1740	IP20-0001	2009	(IR)2SC772	2058	IRTR80	2016	ITT330419	1122	J24632	562	JA1050W	2023
IC-20(PHILCO)	1740	IP20-0002	2009	(IR)2SC828A	2058	IRTR-83	2016	ITT412142	1122	J24635	2016	JA1200	2009
IC-74(ELCOM)	1801	IP20-0006	2009	(IR)2SC829B	2009	IRTR83	2016	ITTC4049BP	2449	J24636	2016	JA1350	2009
IC-80(ELCOM)	1801	IP20-0007	2020	(IR)2SC838	2009	IRTR86	1617	IX0069CE	2401	J24637	2016	JA1350A	2009
IC-84(ELCOM)	1802	IP20-006	2058	(IR)2SC945	2016	IRTR87	2030	J-05	1104	J24640	2023	JA1350B	2016
IC-98(ELCOM)	1808	IP20-0012	2035	IR5GZ61	1114	IRTR92	2020	J-1	1104	J24641	1617	JA1350W	2016
IC-101(ELCOM)	1805	IP20-0015	1123	IR5JA	1123	IRTR93	2055	J-2	1104	J24643	1123	JA1350Y	2016
IC-102(ELCOM)	1822	IP20-0016	1123	IR10E6J	1104	IRTR-95	2016	J2-4570	1104	J24645	1104	JA-1555	1723
IC-520(ELCOM)	1723	IP20-0018	564	IR10E6X	1104	IRTR95	2016	J-4	1104	J24647	1104	JA1600G	2009
IC-555	1723	IP20-0019	562	IR20	1104	IRTRFE100	2035	J4-1000	1801	J24658	2009	JA7010	2009
IC-1489	2521	IP20-0020	1123	IR106A1	1067	IRW106A1	1067	J4-1004	1802	J24701	2016	JA-H	2009
IC4001BP	2401	IP20-0021	1122	IR106A1-C	1067	IRW106C1	1020	J4-1047	1805	J24752	1617	JA-KCDP	1114
IC-7400	1801	IP20-0022	1114	IR106A2	1067	IRW106Y1	1067	J4-1090	1808	J24753	1617	JA-L	2009
IC-7404	1802	IP20-0025	1103	IR106A3	1067	IS28	1067	J4-1215	007	J24755	1122	JAM702C	1104
IC-7408	1822	IP20-0028	2041	IR106A4	1067	IS-446D	1122	J4-1555	1723	J24756	1104	JB-00030	1104
IC-7408N	1822	IP20-0029	2009	IR106A41	1067	IS-1212	565	J4-1600	1617	J24812	2016	JB00030	1144
IC743040	2058	IP20-0032	2009	IR106B1	1067	ISV121	1122	J4-1601	1114	J24813	2016	JB00036	1171
IC743041	2058	IP20-0034	2009	IR106B1-C	1067	IT10D4K	1104	J4-1602	1144	J24814	2016	JB-BB1A	1104
IC743042	1617	IP20-0035	2035	IR106B2	1067	IT22	1123	J4-1610	1122	J24817	2009	JC-00012	1104
IC743043	2023	IP20-0036	2020	IR106B3	1067	IT22A	1123	J4-1615	565	J24820	1123	JC-00014	1104
IC743044	2009	IP20-0037	2058	IR106B4	1067	IT22AM	1123	J4-1619	561	J24832	2023	JC-00025	1104
IC743046	2035	IP20-0038	2009	IR106B41	1067	IT22B	1123	J4-1620	562	J24838	1123	JC-00028	1104
IC743047	562	IP20-0039	2009	IR106C1	1020	IT23	1123	J4-1622	563	J24842	2009	JC-00032	1104
IC743048	1104	IP20-0040	2009	IR106C1-C	1020	IT23A	1123	J4-1626	2009	J24843	2009	JC00032	1144
IC743049	1122	IP20-0041	2009	IR106C2	1020	IT23G	1123	J4-1628	1617	J24844	2009	JC-00033	1104
IC743050	1123	IP20-0046	2023	IR106C3	1020	IT23S	1123	J4-1630	1617	J24845	2009	JC-00035	1104
IC743051	1122	IP20-0054	1102	IR106C4	1020	IT40	1122	J4-1632	2023	J24846	2009	JC-00037	1104
ICR1005	1104	IP20-0060	1123	IR106C41	1020	IT108	2035	J4-1636	2009	J24852	2016	JC-00042	1104
ID100	1067	IP20-0061	1122	IR106D1	1020	IT120	2009	J4-1640	2041	J24855	2009	JC-00044	1104
ID101	1067	IP20-0083	2020	IR106D2	1020	IT121	2009	J4-1644	2016	J24863	2016	JC-00045	1104
ID102	1067	IP20-0086	565	IR106D3	1020	IT122	2016	J4-1645	2023	J24871	1104	JC-00047	1101
ID103	1067	IP20-0110	2016	IR106D4	1020	IT243	565	J4-1649	2030	J24074	2009	JC-00049	1102
ID104	1067	IP20-0120	1104	IR106D41	1020	IT261	1123	J4-1650	2023	J24875	2016	JC00049	1104
ID105	1020	IP20-0122	2009	IR106F1	1067	IT262	1123	J4-1654	2020	J24877	1104	JC00050	1104
ID106	1020	IP20-0145	1122	IR106F2	1067	IT263	1123	J4-1664	2020	J24878	2016	JC-00051	1104
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IDAZ824A	561	IP20-0161	705	IR106F4	1067	IT918A	2016	J4-1711	2035	J24904	2016	JC-00059	1114
IDAZ824B	561	IP20-0164	1114	IR106F41	1067	IT929	2016	J4-1725	1067	J24905	2016	JC-10D1	1104
IDAZ3398	565	IP20-0165	2009	IR106Q1	1067	IT930	2016	J4-1730	1000	J24906	2009	JC501	2009
IDAZ3398A	565	IP20-0167	1104	IR106Q2	1067	IT2218	2009	J4-1730(TRIAC)	1000	J24907	2009	JC501-0	2009
IDAZ3398B	565	IP20-0179	2009	IR106Q3	1067	IT2219	2009	J-6	1104	J24909	2009	JC501P	2009
IDAZ3399	565	IP20-0184	1122	IR106Q4	1067	IT2221	2009	J-8	1114	J24911	1123	JC501Q	2009
IDAZ3399A	565	IP20-0191	2009	IR106Q41	1067	IT2222	2009	J-10	1114	J24912	1122	JC501R	2009
IDAZ3403	563	IP20-0192	2023	IR106Y1	1067	ITC103-1	1067	J100	1104	J24913	1123	JC-DS16E	1104
IDAZ3403A	563	IP20-0203	561	IR106Y1-C	1067	ITC103-5	1020	J107	2016	J24914	1123	JC-KS05	1104

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JCN1	1104	JT-E1024D	1104	K5M5	1114	K33D	2035	K61	2035	K2604C	2016	KC388A	2009
JCN2	1104	JT-E1031	1123	K6	1123	K33E(2S)	2035	K61GR	2035	K2615	2016	KC1322/1	1104
JCN3	1104	JT-E1064	1104	K6A5	1114	K33F(2S)	2035	K61Y	2035	K2616	2016	KC1815-GR	2009
JCN4	1104	JZ6.2	561	K6B5	1114	K33H	2035	K68	2035	K2847C	2016	KC1815-Y	2009
JCN5	1104	JZ6.2A	561	K6G5	1114	K34	2035	K68-L	2035	K2857P	2016	KC1959-O	2009
JCN6	1104	JZ6.2B	561	K6H5	1114	K35	2035	K68-M	2035	K3683C	2016	KCDP12-1	1114
JCN7	1114	JZ6.2C	561	K7A5	1114	K35(1-GATE)	2035	K68A	2035	K3683P	2016	KCO6E11/8	1144
JC-SD-1X	1104	JZ6.2D	561	K7B5	1114	K35-0	2035	K68AL	2035	K3880C	2016	KCO8C11/8	1144
JC-SD-1Z	1104	JZ9.1	562	K7C5	1114	K35-0(1-GATE)	2035	K68A-M	2035	K3880P	2016	KCO8C21/5	1144
JC-SD1Z	1104	JZ9.1A	562	K7G5	1114	K35-1	2035	K68AM	2035	K4002	2016	KCO8C22/19	1144
JC-SG005	1104	JZ9.1B	562	K7H5	1114	K35-1(1-GATE)	2035	K68L	2035	K4586	1000	KCO-8CP11/1-12/1	1104
JC-V03C	1104	JZ9.1C	562	K7K5	1114	K35-2	2035	K68M	2035	K4434	2035	KCO911/8	1144
JCV-2	1104	JZ12	563	K7M5	1114	K35-2(1-GATE)	2035	K68Q	2035	K5001	2016	KCO.8CP11	1104
JCV2	1104	JZ12A	563	K8A5	1114	K35A	2035	K83	2035	K5002	2016	KCO.8CP11/1 + 12/1	1104
JCV-3	1104	JZ12B	563	K8B5	1114	K35A(1-GATE)	2035	K104	2035	K5003	2016		
JCV3	1104	JZ12C	563	K8G5	1114	K35BL	2035	K104H	2035	K5012	2009	KD27	1123
JCV7	1114	JZ15	564	K8H5	1114	K35BL(1-GATE)	2035	K106	2035	K9682	2023	KD103A	1122
JD-00040	1104	JZ15A	564	K8K5	1114	K35C	2035	K107	2035	K1038345-22C	1101	KD103B	1122
JD-BB1A	1104	JZ15B	564	K8M5	1114	K35C(1-GATE)	2035	K107-1	2035	K1038345-22E	1101	KD300A	1122
JD-SD1D	1104	JZ15C	564	K11	2035	K35GN	2035	K107-2	2035	K8532799	1104	KD2102	1617
JDS01D	1104	K1A5	1104	K12	2035	K35GN(1-GATE)	2035	K107-4	2035	K8533058-1	1104	KD2103	1104
JD-SD1Z	1104	K1B5	1104	K12-O(1-GATE)	2035	K35R	2035	K112D	1101	KA1Z25	2030	KD2104	1104
JE10NF	2009	K1C5	1104	K13	2035	K35R(1-GATE)	2035	K115J511-2	1123	KA562-Y	2023	KD2118	2030
JE1033B	2035	K1D5	1104	K14-0066-6	2058	K35Y	2035	K118J966-1	1101	KA1015-O	2023	KD2119	2016
JE9011B	2016	K1E5	1104	K14-0066-12	2009	K35Y(1-GATE)	2035	K118J966-2	1101	KA4559	2035	KD2503	561
JE9011C	2016	K1F5	1104	K14-0066-13	2030	K37	2035	K118J966-3	1101	KB102	1122	KD2504	562
JE9011D	2009	K1G5	1104	K15	2035	K37H	2035	K118J966-4	1101	KB-165	1122	KD2505	563
JE9011E	2009	K1H5	1104	K15-GR(1-GATE)	2035	K40	2035	K118J9663	1101	KB-182	1104	KD5000	2016
JE9011F	2009	K1K5	1114	K15-O(1-GATE)	2035	K40-3	2035	K119	2035	KB265A	1122	KDD-0013	1123
JE9011G	1617	K1M5	1114	K16HA	2035	K40A	2035	K120	2062	KB8339	1617	KDD0015	562
JE9011H	2009	K1.3G22/1A	1173	K17(2S)	2035	K40B	2035	K122D	1101	KB8416	2009	KDD0032	1104
JE9011I	2009	K1.3G22-1A	1171	K17-0	2035	K40C	2035	K152	2035	KBP-005	1171	KDD0041	1122
JE9012D	2023	K1.3G22A	1104	K17-0(1-GATE)	2035	K40C(JAPAN)	2035	K152-3	2035	KBP005	1171	KDS1553	1122
JE9012E	2023	K2A5	1104	K17-OR	2035	K40D	2035	K152LA	2035	KBP01	1171	KDS1554	1122
JE9012F	2023	K2B5	1104	K17A	2035	K41	2035	K168D	2035	KBP04	1173	KDS1555	1122
JE9012G	2023	K2C5	1104	K17B	2035	K41C	2035	K168F	2035	KBPC10-005	1185	KE-262	1104
JE9012H	2023	K2CDP221B	1171	K17BL	2035	K41D	2035	K170	2035	KBPS-005	1101	KE3684	2062
JE9013	2009	K2D5	1104	K17GR	2035	K41E	2035	K192	2035	KC0-8CP	1104	KE3685	2062
JE9013D	2009	K2DP12	1104	K17O	2035	K41E1	2035	K194	2035	KC0-8CP11/1 + 12/1	1104	KE3687	2062
JE9013E	2009	K2E5	1104	K17R	2035	K41F	2035	K195H	2062			KE4220	2062
JE9013F	2009	K2F5	1104	K17Y	2035	K42	2035	K196Y	2035	KC08E11/8	1104	KE4416	2035
JE9013G	2009	K2G	1104	K19	2035	K42(2S)	2035	K197	2035	KC08C11/8	1104	KE5103	2062
JE9013H	2009	K2G5	1104	K19-14	2035	K42-CM1	2035	K197YC	2035	KC08C11/10	1104	KE5105	2035
JE9014	2009	K2H5	1114	K19-BL	2035	K42-CMI	2035	K197YD	2035	KC08C21/5	1104	KGE41007	1104
JE9014A	2009	K2K5	1114	K19-GR	2035	K43	2035	K197YE	2035	KC08C22/19	1104	KGE41054	2009
JE9014C	2009	K2M5	1114	K19-Y	2035	K43-3	2035	K200	1104	KC08C215	1104	KGE41055	2009
JE9014D	2016	K3	1123	K19A	2035	K43-4	2035	K212	2062	KC08C221	1104	KGE41959	1123
JE9015	2023	K3B5	1104	K19B	2035	K43-OR	2035	K212AE	2062	KC08C1110	1104	KGE46109	1122
JE9015A	2023	K3C5	1104	K19BB	2035	K43A	2035	K212E	2062	KC08C2219	1171	KGE46146	2009
JE9015C	2023	K3D5	1104	K19BL	2035	K43B	2035	K304	2035	KC0911/8	1104	KGE46338	2009
JE9016	2016	K3F5	1104	K19FET	2035	K43C	2035	K882	1123	KC06911	1104	KGE46465	1122
JE9016D	2016	K3G5	1104	K19GB	2035	K43D	2035	K1616	1101	KC0.8C22/1	1171	KIA7205AP	705
JE9016E	2016	K3H5	1114	K19GE	2035	K43E	2035	K1616AC	1101	KC0.8CP	1104	KIA7205P	705
JE9016F	2016	K3K5	1114	K19GR(2S)	2035	K43F	2035	K1617	1101	KC0.8CP11	1104	KLH704	2009
JE9016G	2016	K3M5	1114	K19H	2035	K43H	2035	K1617AC	1101	KC0.8CP11/1	1104	KLH1422	2009
JE9016H	2016	K4-505	2023	K19K	2035	K43J	2035	K2001	2016	KC0.8CP11/1 + 121Y	1104	KLH4567	1104
JE9016I	2016	K4-506	1617	K19V	2035	K43K	2035	K2070	2016			KLH4577	1104
JE9018D	2016	K4-507	1617	K19Y(2S)	2035	K43L	2035	K2071	2016	KC0.8CP12/1	1104	KLH4746	2023
JE9018E	2016	K4-510	2016	K22Y	2035	K43M	2035	K2072	2016	KC1.3C	1104	KLH4763	1122
JE9018F	2016	K4-525	2041	K23	2035	K43OR	2035	K2073	2016	KC1.3C3X11/1	1104	KLH4792	2016
JE9018G	2016	K4-550	1123	K23A(2S)	2035	K43R	2035	K2109	2016	KC1.3C22/1	1104	KM917E	2009
JE9018H	2016	K4-555	1104	K24	2035	K43S	2035	K2110	2016	KC1.3G	1104	KM917F	2009
JE9018I	2016	K4-557	1106	K24(1-GATE)	2035	K43X	2035	K2111	2016	KC1.3G12/1X2	1104	KM917G	2009
JE9100A	2009	K4-584	1067	K24C	2035	K43Y	2035	K2112	2016	KC1.3G22/1A	1104	KM918E	2016
JE9112B	2023	K4-586(TRIAC)	1000	K24C(1-GATE)	2035	K44	2035	K2113	2016	KC2AP22/1B	1171	KM918F	2016
JE9112C	2023	K4-590	007	K24D	2035	K44C	2035	K2114	2016	KC2AP221B	1171	KN2222	2009
JE9113C	2009	K4-632	2035	K24D(1-GATE)	2035	K44D	2035	K2115	2016	KC2BP22/1B	1104	KNL8251LA	1617
JF-1033	2035	K4-634	2035	K24DR	2035	K47(2S)	2062	K2116	2016	KC2D22/1	1171	KOS25201-1	1123
JF1033	2035	K4A5	1104	K24DR(1-GATE)	2035	K49(2S)	2035	K2117	2016	KC2D221	1104	KOS25201-2	1123
JF1033B	2035	K4B5	1104	K24E	2035	K49E2	2035	K2118	2016	KC2DP	1104	KOS25671-20	2016
JF1033G	2035	K4C5	1104	K24E(1-GATE)	2035	K49F(2S)	2035	K2119	2016	KC2DP11/1	1104	KOS25671-21	2016
JF1033S	2035	K4D5	1104	K24F	2035	K49H(2S)	2035	K2120	2016	KC2DP12/1	1104	KOS25671-23	2016
JL-40A	1122	K4E5	1104	K24F(1-GATE)	2035	K49H1	2035	K2121	2016	KC2DP12/1N	1104	KPB04	1173
JL40A	1122	K4F5	1104	K24G	2035	K49H2	2035	K2122	2016	KC2DP12/2	1104	KPG6682	1617
JL41A	1104	K4G5	1104	K24G(1-GATE)	2035	K4[illegible](2S)	2035	K2123	2016	KC2DP22/1	1104	KR-162	1122
JL41AM	1104	K4H5	1114	K25	2035	K49M	2035	K2124	2016	KC2DP22/1B	1171	KR8417	2009
JM40	1122	K4K5	1114	K25C	2035	K52	1123	K2125	2016	KC2DP121N	1104	KR-Q0005	1123
JM401	1122	K4M5	1114	K25D	2035	K54	2035	K2126	2016	KC2DP122	1104	KR-Q1013	1617
JNJ61673	2035	K5A5	1104	K25E	2035	K54B	2035	K2127	2016	KC2DP221	1104	KS-05	1104
JP575005	1123	K5B5	1104	K25ET	2035	K54C	2035	K2501	2016	KC2DP221B	1104	KS05	1104
JP575995	1123	K5C5	1104	K25F	2035	K55	2035	K2502	2016	KC2DP221C	1171	KS047A	565
JSP7001	2058	K5D5	1104	K25G	2035	K55C	2035	K2503	2016	KC2G	1122	KS047B	565
JSP7001B	2009	K5E5	1104	K30-O(1-GATE)	2035	K55CD	2035	K2509	2016	KC2G11/1	1104	KS051A	565
JSP7003	2016	K5F5	1104	K31C(2S)	2035	K55D	2035	K2601C	2016	KC2G11/1 + 12/1	1104	KS062A	561
JSP7004	2016	K5G5	1104	K32	2035	K55DE	2035	K2602C	2016	KC2G11/1&12/1	1104	KS34A	565
JT-1601-40	1617	K5H5	1114	K32B	2035	K55R	2035	K2603C	2016	KC2G12/1	1104	KS34AF	565
JT-E1014	1123	K5K5	1114	K33	2035	K60	1123	K2604	2016	KC13C221	1104	KS34B	565

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
KS34BF	565	KSC1674	2016	KTC9014(C)	2009	LDS207	2016	LM386N	1731	LNA347	565	LVA362A	561
KS35A	565	KSC1674(R)	2016	KTC9014A	2009	LDS210	2009	LM386N-1	1731	LNA347A	565	LVA391A	562
KS35AF	565	KSC1674-0	2058	KTC9014A(C)	2009	LDS257	2023	LM386N-3	1731	LNA362	561	LVA450	565
KS37A	561	KSC1674-O	2016	KTC9014A(D)	2009	LDZ70/6A2	561	LM555	1723	LNA362A	561	LVA1047A	565
KS37AF	561	KSC1674O	2058	KTC9014AC	2009	LDZ70/9A1	562	LM555C	1723	LNA391	562	LVA1051A	565
KS41A	562	KSC1674R	2016	KTD880(GR)	2020	LF353	1715	LM555CJ	1723	LNA391A	562	LVA1062A	561
KS41AF	562	KSC1675	2009	KTD880(Y)	2020	LF353N	1715	LM555CN	1723	LP1H	1104	LVA1091A	562
KS44A	563	KSC1675-0	2009	KTD880-O	2020	LFRC-27-15	1104	LM555CN#1	1723	LP2H	1104	LZ4.7	565
KS44AF	563	KSC1675-O	2009	KTD880-Y	2020	LID929	2016	LM555CN#2	1723	LP3H	1104	LZZ1-4.7	565
KS44B	563	KSC1675-Y	2009	KTD880Y	2020	LID930	2016	LM556CN	1728	LP4H	1104	LZZ1-5.1	565
KS44BF	563	KSC1675R	2009	KTD8800	2020	LJ-152	2023	LM723CN	1740	LP100	1122	LZZ1-6.2	561
KS46	564	KSC1675Y	2009	KTR0710C	2009	LJ152	2023	LM741	007	LPM4.7	565	LZZ1-9.1	562
KS46AF	564	KSC2120Y	2009	KTR0815C	2009	LJ152(0)	2023	LM741CJ	007	LPM4.7-20	565	LZZ1-12	563
KS46BF	564	KSD227-O	2009	KTR0839C	2009	LJ152G	2023	LM741CN	007	LPM4.7A	565	LZZ1-15	564
KS120A	563	KSD807M	2055	KTR1687C	2058	LL-2	1104	LM741EN	007	LPM5.1	565	LZZ1-115G	563
KS120B	563	KSD1051	2041	KTTA1015O	2023	LL2	1104	LM741N	007	LPM5.1-20	565	M-0027	1104
KS150A	564	KSD1052	2041	KX-1	1122	LM555CN	1728	LM1090E	2009	LPM5.1A	565	M0027	1104
KS150B	564	KSD1053	2041	KZ62A	561	LM207N	007	LM1090F	2009	LPM6.2	561	M012	2016
KS512A	563	KSD1054	2041	KZ91A	562	LM224AD	1711	LM1090G	2009	LPM6.2-20	561	M024	2016
KS515A	564	KSD1055	2041	L05-E	1114	LM224AF	1711	LM1110A	2016	LPM6.2A	561	M0Z	1104
KS2047A	565	KSD1056	2041	L1/2H	1122	LM224AJ	1711	LM1110B	2016	LPM9.1	562	M1-152	1114
KS2047B	565	KSD1057	2041	L1/3H	1122	LM224AN	1711	LM1117	2016	LPM9.1-20	562	M1-301	1122
KS2051A	565	KSD1058	2041	L3/2H	1104	LM224D	1711	LM1117C	2016	LPM9.1A	562	M1A1	1114
KS2051B	565	KSD2201	2041	L4	2016	LM224J	1711	LM1117D	2009	LPM11	563	M1A5	1114
KS2062A	561	KSD2202	2041	L5	2016	LM224N	1711	LM1120B	2016	LPM12	563	M1A9	1114
KS2062B	561	KSKE12C500	1114	L6	2016	LM239	1712	LM1120C	2016	LPM12-20	563	M1B1	1114
KS2091A	562	KSKE40C200	1104	L6/2H	1104	LM239A	1712	LM1123H	2016	LPM12A	563	M1B5	1114
KS2091B	562	KSKE40C500	1104	L7	2016	LM239AJ	1712	LM-1129	2009	LPM15	564	M1B9	1114
KS2120A	563	KSKE125C200	1114	L8/2H	1104	LM239AN	1712	LM-1130	2009	LPM15-20	564	M1C1	1114
KS2120B	563	KT218	2009	L32H	1104	LM239J	1712	LM-1132	2009	LPM15A	564	M1C5	1114
KS2150A	564	KT1815-GR	2009	L62H	1104	LM239N	1712	LM-1133	2009	LPZT12	563	M1C9	1114
KS2150B	564	KTA473	2027	L78M05	1770	LM317KC	1778	LM1133	2009	LPZT15	564	M1D1	1114
KS20967-L1	1801	KTA473-O	2027	L78M12	1771	LM317T	1778	LM1138	2058	LR5GZ61	1114	M1D5	1114
KS20967-L2	1802	KTA562-O	2023	L78M12-RA	1771	LM324	1711	LM1138E/F	2058	LR47CH	565	M1D9	1114
KS21282-L1	1822	KTA562-TM	2023	L78M12CV	1771	LM324A	1711	LM1138G/F	2058	LR51CH	565	M1E1	1114
KSA495Y	2023	KTA562-Y	2023	L78M12RL	1771	LM324AD	1711	LM1138G/H	2016	LR51D	565	M1E5	1114
KSA539-0	2023	KTA562O	2023	L78N12	1771	LM324AF	1711	LM1138H/I	2058	LR51E	565	M1E9	1114
KSA539-O	2023	KTA562TM	2023	L78N12-RA	1771	LM324AJ	1711	LM-1147	2009	LR56CH	565	M1F1	1114
KSA539-Y	2023	KTA562TM-O	2023	L82H	1114	LM324AN	1711	LM-1148	2009	LR62CH	561	M1F5	1114
KSA542-0	2023	KTA562TM-O(TA)	2023	L123CB	1740	LM324D	1711	LM-1149	2023	LR62D	561	M1F9	1114
KSA542-O	2023	KTA562TM-Y	2023	L842	2016	LM324J	1711	LM-1150	2023	LR62E	561	M1G1	1114
KSA542Y	2023	KTA562TMY	2023	L4000KS	1000	LM324N	1711	LM-1151	2023	LR91CH	562	M1G5	1114
KSA642-0	2023	KTA562TM-Y-O	2023	L7812CV	1771	LM339	1712	LM-1153	2023	LR91D	562	M1G9	1114
KSA642-O	2023	KTA562Y	2023	L7815CV	1772	LM339A	1712	LM-1155	2009	LR91E	562	M1H	1104
KSA642-Y	2023	KTA950-O	2023	L-612099	1822	LM339AJ	1712	LM-1158	1104	LR120CH	563	M1H1	1114
KSA708	2023	KTA950-Y	2023	LA-72	053	LM339AN	1712	LM-1159	1122	LR120D	565	M1H5	1114
KSA708-O	2023	KTA950Y	2023	LA-74	075	LM339D	1712	LM1159	1122	LR120E	563	M1H9	1114
KSA708-Y	2023	KTA1015	2023	LA300	1104	LM339DP	1712	LM-1160	1104	LR150CH	564	M1K1	1114
KSA708Y	2023	KTA1015(O)	2023	LA600	1104	LM339J	1712	LM1160	1104	LR150D	564	M1K5	1114
KSA733	2023	KTA1015(Y)	2023	LA800	1104	LM339N	1712	LM1403	2009	LR150E	564	M1K9	1114
KSA733(Y)	2023	KTA1015-O	2023	LA6458D	038	LM340-5KC	1770	LM1404	2023	LRQ849	2009	M1M1	1114
KSA733-0	2023	KTA1015-Y	2023	LA6458DF	038	LM340-5U	1770	LM1415-6	1617	LRR-50	1104	M1M5	1114
KSA733-O	2023	KTA1015Y	2023	LAA300	1104	LM340-12KC	1771	LM1415-7	1617	LRR50	1104	M1M9	1114
KSA733-Y	2023	KTC200-Y	1617	LAA600	1104	LM340-12U	1771	LM1458	038	LRR-100	1104	M1S-12795B	2041
KSA733Y	2023	KTC200Y	1617	LAA800	1104	LM340-15U	1772	LM1458M	038	LRR100	1104	M1X	2030
KSA735-O	2023	KTC380-O	2009	LB3000	1801	LM340AT5.0	1770	LM1458N	038	LRR-200	1104	M1Z	1102
KSA1015Y	2023	KTC380TM-O	2009	LB3006	1802	LM340T	1770	LM1501H	2030	LRR200	1104	M2A1	1114
KSC815	2009	KTC382	2058	LB3150	1808	LM340T-5	1770	LM1540	2009	LRR-300	1104	M2A5	1114
KSC815-0	2009	KTC388A	2009	LBA-01Z1	1171	LM340T-5.0	1770	LM1540C	2016	LRR300	1104	M2A9	1114
KSC815-O	2009	KTC388A-TM	2009	LBA-02Z1	1171	LM340T5.0	1770	LM1566F	2009	LRR-400	1104	M2B	1114
KSC815-OY	2009	KTC388ATM	2009	LBA-04	1173	LM340T-5.0R	1770	LM1614D	2009	LRR400	1104	M2B1	1114
KSC815-Y	2009	KTC388ATMFA	2009	LBA-04Z1	1173	LM340T-12	1771	LM1614M	2009	LRR-500	1104	M2B5	1114
KSC815Y	2009	KTC1173	2020	LC0.09M1115	1104	LM340T12	1771	LM1795	2023	LRR500	1104	M2B9	1114
KSC838-0	2009	KTC1173-O	2020	LC4001B	2401	LM340T-12R	1771	LM1818	2009	LS-0095-AR-213	2016	M2C1	1114
KSC838-O	2009	KTC1815	2009	LC4001BP	2401	LM340T-15	1772	LM-1862	1104	LS3705	2009	M2C5	1114
KSC945	2009	KTC1815(Y)	2009	LC4011	2411	LM340T15	1772	LM1862	1104	LS5484	2035	M2C9	1114
KSC945(Y)	2009	KTC1815-BL	2009	LC4011B	2411	LM340T-15R	1772	LM2152	2009	LS5485	2035	M2D1	1114
KSC945-O	2016	KTC1815-D	2009	LC4013B	2413	LM340U5	1770	LM-2589	2023	LST5753	041	M2D5	1114
KSC945-OY	2009	KTC1815-GR	2009	LC4066B	2466	LM340U12	1771	LM2682	2009	LT1016(E)	2009	M2D9	1114
KSC945-Y	2009	KTC1815-GRFA-1	2009	LC.09M	1104	LM340U15	1772	LM2901J	1712	LT1016D	2016	M2E1	1114
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KSC1008	2009	KTC1815-Y	2009	LDA400	2009	LM341-15	1772	LM2902J	1711	LT1016I	2016	M2F1	1114
KSC1008(Y)	2009	KTC1815-Y(TA)	2009	LDA400MP	2009	LM341P-5.0	1770	LM2902N	1711	LT1016I,H	2009	M2F5	1114
KSC1008-0	2030	KTC-1815BL	2009	LDA401	2009	LM341P5.0	1770	LM3302	1712	LT1016T,H	2009	M2F9	1114
KSC1008-O	2009	KTC1815BL	2009	LDA401MP	2009	LM341P-12	1771	LM3302J	1712	LTE1016	2058	M2G1	1114
KSC1008-Y	2009	KTC1815GR	2009	LDA402	2009	LM341P12	1771	LM3302N	1712	LTE1016(G.E.)	2016	M2G5	1114
KSC1008Y	2009	KTC-1815Y	2009	LDA404	2030	LM341P-15	1772	LM3862M	1731	LTH1016	2058	M2G9	1114
KSC1187	2009	KTC1815Y	2009	LDA405	2030	LM341P15	1772	LM3909	1705	LTH1016(G.E.)	2016	M2GH1	1114
KSC1187(R)	2009	KTC1923-O	2058	LDA406	2030	LM342P12	1771	LM7812	1771	LVA47A	565	M2H5	1114
KSC1187-0	2058	KTC1959-O	2009	LDA408	2030	LM342P15	1772	LM8050I/J	2009	LVA51A	565	M2H9	1114
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KSC1187-R	2058	KTC2120(Y)	2009	LDA454	2023	LM383AT	703	LM9018G/F	2009	LVA91A	562	M2K5	1114
KSC1187C	2058	KTC2120-O	2009	LDA455	2023	LM383T	703	LMP15	564	LVA150	565	M2K9	1114
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KSC1187R	2058	KTC2120Y	2009	LDS201	2030	LM386A	1731	LMP15A	564	LVA347A	565	M2M5	1114
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MACZD15D10	564	MBCZB9.1D	562	MC060	1104	MC1489L	2521	MC7812CT	1771	MCCZE12D10	563	MD46	1123
MACZE9.1D	562	MBCZB9.1D5	562	MC060A	1104	MC1489N	2521	MC7815	1772	MCCZE15D	564	MD50	1122
MACZE9.1D5	562	MBCZB9.1D10	562	MC070	1114	MC1489P	2521	MC7815ACT	1772	MCCZE15D5	564	MD54	1123
MACZE9.1D10	562	MBCZB12D	563	MC070A	1114	MC1520	1104	MC7815BT	1772	MCCZE15D10	564	MD56	1123
MACZE12D	563	MBCZB12D5	563	MC080	1114	MC1521	1102	MC7815CP	1772	MCCZF4.7D	565	MD60	1123
MACZE12D5	563	MBCZB12D10	563	MC080A	1114	MC1522	1102	MC7815CT	1772	MCCZF4.7D5	565	MD-60A	1123
MACZE12D10	563	MBCZB15D	564	MC090	1114	MC1523	1103	MC7815P	1772	MCCZF4.7D10	565	MD60A	1123
MACZE15D	564	MBCZB15D5	564	MC090A	1114	MC1524	1103	MC14001	2401	MCCZF5.1D	565	MD134	1122
MACZE15D5	564	MBCZB15D10	564	MC2	1122	MC1525	1104	MC14001B	2401	MCCZF5.1D5	565	MD135	1122
MACZE15D10	564	MBCZC9.1D	562	MC19	1102	MC1526	1104	MC14001BCL	2401	MCCZF5.1D10	565	MD136	1122
MACZF4.7D	565	MBCZC9.1D5	562	MC30	1114	MC1527	1114	MC14001BCP	2401	MCCZF6.2D	561	MD137	1104
MACZF4.7D5	565	MBCZC9.1D10	562	MC51	1103	MC1528	1114	MC14001CP	2401	MCCZF6.2D5	561	MD138	1104
MACZF4.7D10	565	MBCZC12D	563	MC73	563	MC1529	1114	MC14011	2411	MCCZF6.2D10	561	MD139	1104
MACZF5.1D	565	MBCZC12D5	563	MC78M05CT	1770	MC1558G	030	MC14011B	2411	MCCZF9.1D	562	MD234	1122
MACZF5.1D5	565	MBCZC12D10	563	MC78M12	1771	MC1723CL	1740	MC14011BAL	2411	MCCZF9.1D5	562	MD235	1122
MACZF5.1D10	565	MBCZC15D	564	MC78M12CT	1771	MC1723CP	1740	MC14011BCL	2411	MCCZF9.1D10	562	MD236	1122
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MACZF6.2D5	561	MBCZC15D10	564	MC78T12CT	1771	MC1741CP1	007	MC-14011CP	2411	MCCZF12D5	563	MD238	1104
MACZF6.2D10	561	MBCZD9.1D	562	MC100	1114	MC1741NCP1	007	MC14011CP	2411	MCCZF12D10	563	MD708	2009
MACZF9.1D	562	MBCZD9.1D5	562	MC100A	1114	MC1741P1	007	MC14013	2413	MCCZG4.7D	565	MD708A	2009
MACZF9.1D5	562	MBCZD9.1D10	562	MC110	1114	MC2321	1122	MC14013A1	2413	MCCZG4.7D5	565	MD708AF	2009
MACZF9.1D10	562	MBCZD12D	563	MC110A	1114	MC2325	1122	MC14013B	2413	MCCZG4.7D10	565	MD708B	2009
MACZF12D	563	MBCZD12D5	563	MC110AS	1114	MC2326	1122	MC14013BAL	2413	MCCZG5.1D	565	MD708BF	2009
MACZF12D5	563	MBCZD12D10	563	MC110S	1114	MC2335	1122	MC14013BCL	2413	MCCZG5.1D5	565	MD708F	2009
MACZF12D10	563	MBCZD15D	564	MC170	1122	MC2336	1122	MC14013BCP	2413	MCCZG5.1D10	565	MD753	561
MACZG4.7D	565	MBCZD15D5	564	MC-301	1122	MC2355	1122	MC14013CP	2413	MCCZG6.2D	561	MD753A	561
MACZG4.7D5	565	MBCZD15D10	564	MC308	1123	MC2356	1122	MC14017	2417	MCCZG6.2D5	561	MD757	562
MACZG4.7D10	565	MBCZE9.1D	562	MC456	1101	MC2525	1122	MC14017BAL	2417	MCCZG6.2D10	561	MD757A	562
MACZG5.1D	565	MBCZE9.1D5	562	MC456A	1122	MC2526	1122	MC14017BCL	2417	MCCZG9.1D	562	MD759	563
MACZG5.1D5	565	MBCZE9.1D10	562	MC457	1104	MC2535	1122	MC14017BCP	2417	MCCZG9.1D5	562	MD759A	563
MACZG5.1D10	565	MBCZE12D	563	MC457A	1122	MC2536	1122	MC14017CP	2417	MCCZG9.1D10	562	MD982	2023
MACZG6.2D	561	MBCZE12D5	563	MC458	1102	MC2555	1122	MC14049	2449	MCCZG12D	563	MD982F	2023
MACZG6.2D5	561	MBCZE12D10	563	MC458A	1122	MC2556	1122	MC14049B	2449	MCCZG12D5	563	MDA100	1171
MACZG6.2D10	561	MBCZE15D	564	MC459	1122	MC2625	1122	MC14049CP	2449	MCCZG12D10	563	MDA100A	1171
MACZG9.1D	562	MBCZE15D5	564	MC459A	1122	MC2626	1122	MC14049UB	2449	MCM6665	2506	MDA101	1171
MACZG9.1D5	562	MBCZE15D10	564	MC461	1122	MC2635	1122	MC14049UBAL	2449	MCM6665AL15	2506	MDA101A	1171
MACZG9.1D10	562	MBCZF4.7D	565	MC461A	1122	MC2636	1122	MC14049UBCL	2449	MCM6665AL20	2506	MDA104	1173
MACZG12D	563	MBCZF4.7D5	565	MC462	1122	MC3302	1712	MC14049UBCP	2449	MCM6665AP15	2506	MDA104A	1173
MACZG12D5	563	MBCZF4.7D10	565	MC462A	1104	MC3302P	1712	MC14066	2466	MCM6665AP20	2506	MDA200	1171
MACZG12D10	563	MBCZF5.1D	565	MC463	1122	MC3456P	1728	MC14066B	2466	MCM6665L25	2506	MDA201	1171
MAN72A	053	MBCZF5.1D5	565	MC463A	1102	MC4558ACP1	038	MC14066BAL	2466	MCR72-1	1067	MDA204	1173
MAN74	075	MBCZF5.1D10	565	MC464	1122	MC4558CP	038	MC14066BCL	2466	MCR72-2	1067	MDA920-1	1171
MAN74A	075	MBCZF6.2D	561	MC464A	1102	MC4558CP1	038	MC14066BCP	2466	MCR72-3	1067	MDA920-2	1104
MB-01	1171	MBCZF6.2D5	561	MC482	1122	MC4558CU	038	MC53200	1801	MCR72-4	1067	MDA920-5	1173
MB01	1104	MBCZF6.2D10	561	MC482A	1122	MC5321	1122	MCC555A	1723	MCR72-5	1020	MDA920-6	1173
MB-04	1173	MBCZF9.1D	562	MC482B	1122	MC6008	561	MCC555B	1723	MCR100-3	1067	MDA920A2	1161

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MDA920A6	1173	MDCZG12D5	563	MF3304	2023	MI151R	1101	MJE2520	2020	MM1809A	2030	MP100	1104
MDA942-2	1171	MDCZG12D10	563	MFE2000	2035	MI-152	1114 N2	MJE2521	2020	MM1810A	2030	MP225	1104
MDA942-4	1173	MDP173	1122	MFE2001	2035	MI-152A	1114 N2	MJE2522	2020	MM1943	2030	MP300	1104
MDA942-5	1173	MDS26	2017	MFE2093	2035	MI152A	1114	MJE2523	2020	MM1945	2016	MP400	1104
MDA942A-1	1171	MDS27	2017	MFE2094	2035	MI-152DR	1114 N1	MJE2801T	2020	MM2005-2	1617	MP500(RECT.)	1104
MDA942A1	1171	ME0404	2023	MFE2095	2035	MI-152DS	1114 N2	MJE2940	2041	MM2266	2030	MP549	1143
MDA942A-2	1171	ME0404-1	2023	MFE4007	2035	MI-152R	1114 N1	MJE3054	2020	MM2484	1617	MP651	1104
MDA942A-4	1173	ME0404-2	2023	MFE4008	2035	MI152R	1104 N1	MJE3055T	2020	MM2613	2009	MP1003-1	1104
MDA942A-5	1173	ME0404A	2023	MFE4009	2035	MI-152RA	1114 N1	MJE9411T	2016	MM2614	2023	MP1003-2	1104
MDA942A5	1173	ME0461	2023	MFE4010	2035	MI152RA	1114	MJF1033G	2035	MM2711	2009	MP1003-4	1104
MDA2500	1185	ME0462	2023	MFE4011	2035	MI-154	1114 N2	MJF3370	2027	MM2712	2023	MP1014-2	1617
MDCZA9.1D	562	ME-1	1617	MFE4012	2035	MI-154R	1114 N1	MJF10335	2035	MM3004	2017	MP5113	1104
MDCZA9.1D5	562	ME1D821	561	MFJ1033S	2035	MI-156	1114 N2	MK-10	2035	MM3006	1617	MP-5115	1104
MDCZA9.1D10	562	ME1D821A	561	MGD72	1122	MI-156R	1114 N1	MK10	2035	MM3726	2023	MP6566	2009
MDCZA12D	563	ME1D823	561	MGLA47	565	MI-301	1122	MK-10-2	2035	MM3734	2030	MP8111	2020
MDCZA12D5	563	ME1D823A	561	MGLA47A	565	MI301	1122	MK10-2	2035	MM3735	2030	MP8112	2020
MDCZA12D10	563	ME1D825	561	MGLA47B	565	MI402	1104	MK-10-E	2035	MM3736	2030	MPC1458C	038
MDCZA15D	564	ME1D825A	561	MGLA51	565	MI1546	2016	MK10-E	2035	MM3737	2030	MPC3500	1122
MDCZA15D5	564	ME1D827	561	MGLA51A	565	MIC7400J	1801	MK102	2035	MM3903	1617	MPC14305	1770
MDCZA15D10	564	ME1D827A	561	MGLA51B	565	MIC7400N	1801	MK585	2035	MM3904	1617	MPD200	1122
MDCZB9.1D	562	ME1D829	561	MGLA62	561	MIC7401J	1801	MK4564N-15	2506	MM3905	2023	MPD201	1122
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MDCZB11D	563	ME213	1617	MGLA91	562	MIC7404N	1802	ML741CS	007	MM4013	2413	MPD300	1122
MDCZB11D5	563	ME213A	1617	MGLA91A	562	MIC7490J	1808	ML1458S	038	MM4017	2417	MPD301	1122
MDCZB11D10	563	ME216	1617	MGLA91B	562	MIC7490N	1808	ML7815P	1772	MM4048	2023	MPD302	1122
MDCZB12D	563	ME217	1617	MH67	1104	MJ105	2055	MLM139	1712	MM4049	2449	MPD400	1122
MDCZB12D5	563	ME409-02B	562	MH68	1104	MJ139A	2009	MLM139AL	1712	MM4052	2023	MPD401	1122
MDCZB12D10	563	ME501	2023	MH70	1104	MJ480	2041	MLM139L	1712	MM4429	2017	MPD402	1122
MDCZB15D	564	ME502	2023	MH71	1104	MJ481	2041	MLM224L	1711	MM4430	2017	MPD4011BC	2411
MDCZB15D5	564	ME900	2009	MH72	1114	MJ490	2043	MLM224P	1711	MM5189	2030	MPD4066BC	2466
MDCZB15D10	564	ME900A	1617	MH73	1114	MJ491	2043	MLM239AL	1712	MM5262	2030	MPF101	2035
MDCZC9.1D	562	ME901	1617	MH500	1104	MJ-2251	2030	MLM239L	1712	MM5611AN	2411	MPF102	2062
MDCZC9.1D5	562	ME901A	1617	MH670	1104	MJ2800	2041	MLM324	1711	MM8006	2016	MPF103	2035
MDCZC9.1D10	562	ME1001	1617	MH680	1104	MJ2801	2041	MLM324L	1711	MM8007	2016	MPF104	2035
MDCZC12D	563	ME1002	1617	MH700	1104	MJ2802	2041	MLM324P	1711	MMBZ5234	561	MPF105	2035
MDCZC12D5	563	ME1075	2030	MH710	1104	MJ2901	2043	MLM324P1	1711	MMBZ5239	562	MPF-106	2035
MDCZC12D10	563	ME1138	2058	MH720	1114	MJ2955	2043	MLM339AL	1712	MMBZ5242	563	MPF106	2062
MDCZC15D	564	ME2001	1617	MH730	1114	MJ3480	2055	MLM339L	1712	MMCM918	2016	MPF107	2035
MDCZC15D5	564	ME2002	1617	MHD619	1122	MJ6302	2041	MLNA347	565	MMCM930	2016	MPF108	2035
MDCZC15D10	564	ME3002	2016	MHM1001	2016	MJ8400	2055	MLNA347A	565	MMCM2222	1617	MPF111	2062
MDCZD9.1D	562	ME3011	2016	MHM1101	2016	MJ12002	2055	MLNA351	565	MMT70	2016	MPF112	2035
MDCZD9.1D5	562	ME4001	1617	MHT2414	2030	MJ12003	2055	MLNA351A	565	MMT72	2009	MPF256	2035
MDCZD9.1D10	562	ME4002	1617	MHT2418	2030	MJ12004	2055	MLNA362	561	MMT73	2009	MPF820	2035
MDCZD12D	563	ME4003	1617	MHT4401	2030	MJ15001	2041	MLNA362A	561	MMT918	2058	MPL1000	2023
MDCZD12D5	563	ME4003C	1617	MHT4411	2030	MJ15002	2043	MLNA391	562	MMT2222	2009	MPM5006	2009
MDCZD12D10	563	ME4101	1617	MHT4412	2030	MJE29	2020	MLNA391A	562	MMT3014	2009	MPN3201	1122
MDCZD15D	564	ME4102	1617	MHT4413	2030	MJE29A	2020	MLV750A	565	MMT3546	2023	MPN-3401	1122
MDCZD15D5	564	ME4103	1617	MHT4451	2030	MJE29B	2020	MLV751A	565	MMT3799	2023	MPN3412	1122
MDCZD15D10	564	ME4104	1617	MHT4483	2030	MJE29C	2020	MLV753A	561	MMT3903	2009	MPS393	2009
MDCZE9.1D	562	ME5001	2016	MHT4511	2030	MJE31	2020	MLV757A	562	MMT3904	2009	MPS404	2023
MDCZE9.1D5	562	ME6001	1617	MHT4512	2030	MJE31A	2020	MLV759A	563	MMT8015	2016	MPS404A	2023
MDCZE9.1D10	562	ME6002	1617	MHT4513	2030	MJE31B	2020	MM0	1104	MMZ4.7	565	MPS654	2016
MDCZE12D	563	ME6003	1617	MHT5906	2020	MJE31C	2020	MM2	1104	MMZ4.7-20	565	MPS-706	2009
MDCZE12D5	563	ME6101	2023	MHT7401	2030	MJE33	2020	MM3	1104	MMZ4.7A	565	MPS706	2009
MDCZE12D10	563	ME8001	2030	MHT7411	2030	MJE33A	2020	MM4	1104	MMZ5.1	565	MPS706A	2009
MDCZE15D	564	ME8002	2030	MHT7412	2030	MJE33B	2020	MM5	1104	MMZ5.1-20	565	MPS708	2016
MDCZE15D5	564	ME8003	2030	MHT7414	2030	MJE33C	2020	MM6	1104	MMZ5.1A	565	MPS805	2016
MDCZE15D10	564	ME8101	2016	MHT7417	2030	MJE34	2027	MM7	1114	MMZ6.2	561	MPS834	2009
MDCZF4.7D	565	ME8201	2016	MHT7601	2041	MJE41	2020	MM8	1114	MMZ6.2-20	561	MPS835	2009
MDCZF4.7D5	565	ME9001	2009	MHT7602	2041	MJE41A	2020	MM9	1114	MMZ6.2A	561	MPS918	2016
MDCZF4.7D10	565	ME9002	2016	MHT7603	2041	MJE41B	2020	MM10	1114	MMZ9.1	562	MPS929	2023
MDCZF5.1D	565	ME9003	2016	MHT7607	2041	MJE41C	2020	MM306	2030	MMZ9.1-20	562	MPS929A	2023
MDCZF5.1D5	565	ME9021	2016	MHT7608	2041	MJE101	2027	MM486	2030	MMZ9.1A	562	MPS930	2023
MDCZF5.1D10	565	ME9022	2016	MHT7609	2041	MJE102	2027	MM487	2030	MMZ12	563	MPS930A	2023
MDCZF6.2D	561	MEM4001	2401	MHT9001	2030	MJE103	2027	MM488	2030	MMZ12-20	563	MPS960T	2009
MDCZF6.2D5	561	MEM4011	2411	MHT9002	2030	MJE201	2020	MM511	2030	MMZ12A	563	MPS1572	2023
MDCZF6.2D10	561	MEM4013	2413	MHT9004	2030	MJE202	2020	MM512	2030	MMZ15	564	MPS2221	2009
MDCZF9.1D	562	MEM4049	2449	MHT9005	2030	MJE205K	2020	MM513	2030	MMZ15-20	564	MPS2221A	2009
MDCZF9.1D5	562	MEZ1-4.7	565	MI-15	1104 N2	MJE240	2020	MM709	2016	MMZ15A	564	MPS2222	2009
MDCZF9 1D10	562	MEZ1-5.1	565	MI-15MR	1104 N1	MJE241	2020	MM741	007	MMZ15A-20	564	MPS2222A	2009
MDCZF12D	563	MEZ1-6.2	561	MI-15MS	1104 N2	MJE242	2020	MM869B	2009	MN34A	1123	MPS2369	2009
MDCZF12D5	563	MEZ1-9.1	562	MI-15R	1104 N1	MJE520K	2020	MM999	2023	MN51	1123	MPS2711	2009
MDCZF12D10	563	MEZ1-12G	563	MI15R	1104	MJE521K	2020	MM1367/2SC684	2016	MN54	2009	MPS2712	2009
MDCZG4.7D	565	MEZ1-15	564	MI15RC	1104	MJE800T	2068	MM1382	2016	MN60(DIODE)	1123	MPS2713	2009
MDCZG4.7D5	565	MEZ1-115	563	MI-155	1104 N2	MJE801T	2068	MM1387	2016	MN4001B	2401	MPS2714	2009
MDCZG4.7D10	565	MEZ12T5	563	MI15S	1104	MJE802T	2068	MM1505	2009	MN4011B	2411	MPS2715	2009
MDCZG5.1D	565	MEZ12T10	563	MI15SC	1104	MJE803T	2068	MM1613	2009	MN4066B	2466	MPS-2716	2009
MDCZG5.1D5	565	MEZ15T5	564	MI-101R	1104 N1	MJE2021	2020	MM1614	2023	MN4164P-15A	2506	MPS2716	2009
MDCZG5.1D10	565	MEZ-15T5A	564	MI-102	1104 N2	MJE2380	2020	MM1619	2020	MOC3009	134	MPS2823	2016
MDCZG6.2D	561	MEZ15T10	564	MI-102R	1104 N1	MJE2381	2020	MM1711	2009	MOC3010	134	MPS2894	2016
MDCZG6.2D5	561	MEZ15T10C	564	MI-104	1114 N2	MJE2382	2020	MM1748	2009	MOC3011	134	MPS2906	2009
MDCZG6.2D10	561	MF521	2035	MI-104R	1114 N1	MJE2383	2020	MM1755	1617	MOZ	1104	MPS2907	2023
MDCZG9.1D	562	MF1161	2016	MI-106	1114 N2	MJE2480	2020	MM1756	1617	MP-01	1104	MPS2907A	2023
MDCZG9.1D5	562	MF1162	2016	MI-106R	1114 N1	MJE2481	2020	MM1757	1617	MP01	1104	MPS2923	2009
MDCZG9.1D10	562	MF1163	2016	MI-151	1114 N2	MJE2482	2020	MM1758	1617	MP-04	1173	MPS2924	2009
MDCZG12D	563	MF1164	2016	MI-151R	1114 N1	MJE2483	2020	MM1809	2030	MP2	1122	MPS2925	2009

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MPS2926	2009	MPS5137	2009	MPS6576-GREEN	2009	MPS9623F	2009	MPS9750G	2023	MR1C	1114	MRD150	2016
MPS2926-B	2030	MPS5138	2023	MPS6576-S	2009	MPS-9623G	2009	MPS9750OF	2023	MR-1M	1114	MRD450	2016
MPS2926-BRN	2009	MPS5142	2023	MPS6576-SIL	2009	MPS9623G	2009	MPS9750T	2023	MR1M	1114	MRD821	561
MPS2926-G	2009	MPS5143	2023	MPS6576-Y	2009	MPS9623G/H	2009	MPS96800	2023	MR21CR	1067	MRD825	561
MPS2926-GRN	2009	MPS-5172	2016	MPS6576-YEL	2009	MPS9623H	2009	MPS-A05	2016	MR40	1122	MRD827	561
MPS2926-O	2030	MPS5172	2009	MPS6576GREEN	2009	MPS9623H/I	2009	MPSA05#	2009	MR47C-H	565	MRD829	561
MPS2926-ORG	2009	MPS5668	2035	MPS6576SIL	1617	MPS9623I	2009	MPSA06	2009	MR51C-H	565	MRD921	561
MPS2926-R	2030	MPS5855	2023	MPS6579	2023	MPS9623I/J	2009	MPS-A09	2016	MR51E-H	565	MRD923	561
MPS2926-RED	2009	MPS5857	2023	MPS6580	2023	MPS9623J	2009	MPSA09	2009	MR60	1104	MRD925	561
MPS2926-Y	2030	MPS6076	2023	MPS6590	2009	MPS9625	2058	MPS-A10	1617	MR62C-H	561	MRD927	561
MPS2926-YEL	2009	MPS6134	2023	MPS6591	2023	MPS9625D	2058	MPSA10	2009	MR62E-H	561	MRD929	561
MPS2926BRN	2009	MPS6172	2023	MPS8001	2009	MPS9625E	2058	MPSA10-BLU	2009	MR62H	561	MRF501	2016
MPS2926GRN	2009	MPS6351	1617	MPS8097	2009	MPS9625F	2058	MPSA10-GRN	2009	MR70	1114	MRF502	2016
MPS2926ORN	2009	MPS6413	1617	MPS8098	2009	MPS9625G	2058	MPSA10-RED	2009	MR80	1114	MRF531	2030
MPS2926RED	2009	MPS6507	2016	MPS8099	2009	MPS9625H	2058	MPSA10-WHT	2009	MR90	1114	MRS6548	2016
MPS2926YEL	2009	MPS6511	2016	MPS8598	2023	MPS9626	2009	MPSA10-YEL	2009	MR91C-H	562	MRV-20C	1104
MPS3013	2023	MPS6511-5	2016	MPS8599	2023	MPS9626G	2009	MPSA16	2016	MR91E-H	562	MS-1	1104
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MPS3391	2009	MPS6513	2009	MPS9246A.B	2009	MPS9626I	2009	MPSA18	2016	MR120C-H	563	MS-2	1104
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MPS3392	2009	MPS6515	2009	MPS9410A	2030	MPS9630H	2009	MPSA20	2009	MR-150-01	1104	MS3H	1104
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MPS3395	2009	MPS6518	2023	MPS9410H	2030	MPS9630I	2009	MPSA20-RED	2016	MR501	1143	MS5H	1104
MPS3396	2009	MPS6519	2023	MPS9417A-T	2009	MPS9630T	2009	MPSA20-WHT	2016	MR502	1143	MS11H	1104
MPS3397	2016	MPS6520	2009	MPS9418	2009	MPS9631	2009	MPSA20-YEL	2016	MR504	1144	MS12H	1104
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MPS3536	2016	MPS6522	2023	MPS9423	2009	MPS9631I	2009	MPSA55	2023	MR910	1114	MS14H	1104
MPS-3563	2009	MPS6523	2023	MPS9423G	2016	MPS9631J	2009	MPS-A56	2023	MR990	1114	MS22B	1617
MPS3563	2016	MPS6528	2016	MPS9423H	2016	MPS9631K	2009	MPSA56	2023	MR1030A	1114	MS35H	1104
MPS3565	2016	MPS6529	2016	MPS9423I	2016	MPS9631S	2009	MPS-A70	2023	MR1030AR	1114	MS36H	1104
MPS3566	2009	MPS6530	2009	MPS9426	2058	MPS9631T	2009	MPSA70	2023	MR1030B	1114	MS37H	1103
MPS3638	2023	MPS6531	2009	MPS9426A.B	2009	MPS9632	2009	MPSA70-YEL	2023	MR1030BR	1114	MS38H	1104
MPS-3638A	2023	MPS6532	2009	MPS9426B	2058	MPS9632(I)	2009	MPSD05	2009	MR1031	1114	MS50	1104
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MPS3639	2023	MPS6533M	2023	MPS9426BC	2058	MPS9632H	2009	MPSD55	2023	MR1031AR	1114	MS2991	2030
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MPS3694	2009	MPS6542	2058	MPS9433J	2016	MPS9633D	2016	MPS-H11	2016	MR1033AR	1114	MS7505	2023
MPS-3702	2023	MPS6543	2058	MPS9433K	2009	MPS9633G	2016	MPSH11	2058	MR1033B	1114	MS7506H	2030
MPS3702	2023	MPS6544	2009	MPS9433S	2009	MPS9633X	2009	MPS-H17	2058	MR1033BR	1114	MS7506J	2030
MPS3703	2023	MPS6545	2009	MPS9433T	2009	MPS9634	2009	MPSH17	2058	MR1034A	1114	MSA7505	2020
MPS3704	2009	MPS6546	2058	MPS9434	2009	MPS9634B	2009	MPS-H19	2016	MR1034AR	1114	MSA8505	2020
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MPS3708	2009	MPS6554	2009	MPS9468A	2023	MPS9646G	1122	MPSH24	2016	MR1035B	1114	MSK5405	2030
MPS3709	2009	MPS6555	2009	MPS9483T	2023	MPS9646H	1122	MPSH30	2058	MR1035BR	1114	MSM63	2023
MPS3710	2009	MPS6556	2009	MPS9484	2023	MPS9646I	1122	MPSH31	2058	MR1036A	1114	MSM631	2023
MPS3711	2009	MPS6560	2009	MPS9600	2009	MPS9646J	1122	MPS-H32	2009	MR1036AR	1114	MSM2764RS	1251
MPS3721	2009	MPS6561	2009	MPS9600(G)	2009	MPS9666	2023	MPSH32	2009	MR1036B	1114	MSM4001	2401
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MPS3827	2009	MPS6563	2023	MPS9600F	2009	MPS9680H	2023	MPSH34	2016	MR1038A	1114	MSM4011RS	2411
MPS3900	2009	MPS6564	2009	MPS9600G	2009	MPS9680H/E	2023	MPS-H37	2058	MR1038AR	1114	MSM4013	2413
MPS3900A	2009	MPS6565	2009	MPS9600G/H	2016	MPS9680H/I	2023	MPSH37	2058	MR1038B	1114	M5M4013RS	2413
MPS3901	2009	MPS6566	2009	MPS9601	2016	MPS9680I	2023	MPSH54	2023	MR1038BR	1114	MSM4017	2417
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MPS3904	2016	MPS6568	2009	MPS9604	2058	MPS9680J	2023	MPSH81	2023	MR1040AR	1114	MSM4066RS	2466
MPS3905	2023	MPS6568A	2058	MPS9604(E)	2009	MPS9680T	2023	MPSK20	2009	MR1040B	1114	MSP999058-1	2030
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MPS4249	2023	MPS-6571	2009	MPS9604I	2009	MPS9682(I)	2023	MPSK72	2023	MR1337-4	1104	MSS-1000	1104
MPS4250	2023	MPS6571	2009	MPS9604R	2009	MPS9682I	2023	MPX-25	1104	MR1337-5	1104	MSS1000	1122
MPS4250A	2023	MPS6572	2016	MPS9606(H)	1122	MPS9682J	2023	MPX25	1104	MR2064	1104	MSS7501	2016
MPS4274	2009	MPS6573	2009	MPS9606(I)	1122	MPS9682K	2023	MPX215	1104	MR2065	1104	MSS7502	2016
MPS4275	2009	MPS6574	2009	MPS9606I	1122	MPS9682T	2023	MPX9623	2009	MR2069	1114	MST-10	2030
MPS4354	2023	MPS6574-B	2030	MPS9611-5	2009	MPS9696	2009	MPX9623H	2009	MR2070	1114	MST7501	2016
MPS4355	2023	MPS6574-BLUE	2030	MPS9616	2009	MPS9696F	2009	MPX9623H/I	2009	MR2075	1114	MSZ9.1	562
MPS4356	2023	MPS6574-G	2030	MPS9616J	2009	MPS9696G	2009	MPX9623I	2009	MR2261	1104	MT021	1104
MPS5086	2023	MPS6574-S	2030	MPS9618	2009	MPS9696H	2009	MQ1	2009	MR2271	1104	MT021A	1104
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MPS5133	2009	MPS6576	2009	MPS9623C	2009	MPS9700U	2009	MQ62	1104	MR9601	1101	MT0411	2023
MPS5134	2009	MPS6576-B	2009	MPS9623C(F)	2009	MPS9750D	2023	MQ82	1104	MR9602	1104	MT0412	2023
MPS5135	2009	MPS6576-BLUE	2009	MPS9623E	2009	MPS9750E	2023	MR-1	1104	MR9803	1104	MT0413	2023
MPS5136	2009	MPS6576-G	2009	MPS9623E.G	2009	MPS9750F	2023	MR-1C	1114	MRB-20C	1104	MT0461	2023

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
MT0462	2023	MT3011	2016	MZ4.7T10	565	MZ305B	565	MZX9.1	562	NCS9018D	2016	NL40	1104
MT0493	2058	MT4101	2009	MZ4.7T20	565	MZ305C	565	N1X	2030	ND-07001	1801	NL50	1104
MT14	1104	MT4102	2009	MZ5.1T5	565	MZ306C	561	N2A	1123	ND10	1114	NL60	1104
MT24	1104	MT4102A	2009	MZ5.1T10	565	MZ309	562	N2A(DIODE)	1123	ND10A	1114	NL100B	2016
MT44	1104	MT4103	2009	MZ5.1T20	565	MZ309A	562	N-41	1104	NE550A	1740	NN50	1104
MT64	1104	MT4104	2016	MZ6.2	561	MZ309B	562	N48	1123	NE550F	1740	NN650	2023
MT84	1114	MT4264-15	2506	MZ6.2A	561	MZ309C	562	N203A	1067	NE550N	1740	NN1199	2058
MT100	2016	MT4264-20	2506	MZ6.2B	561	MZ310	562	N203B	1067	NE555	1723	NN9017	2009
MT101	2016	MT5010	1104	MZ6.2T5	561	MZ312	563	N203C	1020	NE555JG	1723	NP50A	1104
MT102	2016	MT5011	1104	MZ6.2T10	561	MZ312A	563	N203YY	1067	NE555N	1723	NP60A	1104
MT104	1617	MT5050	1104	MZ6.2T20	561	MZ312B	563	N-756A	562	NE555P	1723	NP389	1104
MT106	2016	MT5051	1104	MZ8.6	562	MZ312C	563	N3563	1617	NE555V	1723	NP2222AP	2009
MT107	2016	MT5100	1102	MZ-9	562	MZ409	562	N4001	2401	NE556	1728	NPC0010	1104
MT170	1102	MT5101	1102	MZ9.1B	562	MZ409-02B	562	N4011	2411	NE556A	1728	NPC0050	1104
MT-302	2030	MT5102	1104	MZ9.1T5	562	MZ409A	562	N4013	2413	NE556N	1728	NPC069	2009
MT456	1101	MT5103	1104	MZ9.1T10	562	MZ409B	562	N4049	2449	NE567N	1721	NPC069-98	2009
MT456A	1122	MT6001	2009	MZ9.1T20	562	MZ409C	562	N5406	1122	NE4304	2035	NPC079	2023
MT457	1104	MT6002	2009	MZ-11	563	MZ412	563	N5741V	007	N-EA15X130	2016	NPC0100	1104
MT457A	1104	MT6003	2009	MZ-12	563	MZ412A	563	N-7400A	1801	N-EA15X131	2016	NPC06998	2016
MT458	1102	MT9001	2009	MZ12	563	MZ412B	563	N7400A	1801	N-EA15X132	2016	NPC108	2062
MT458A	1122	MT9002	2009	MZ12A	563	MZ412C	563	N7400F	1801	N-EA15X134	2016	NPC108A	2062
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MT459A	1102	MTP7N06	2072	MZ12B	563	MZ500-8	565	N7401	1801	N-EA15X136	1617	NPC167	2016
MT461	1122	MTZ5.1(B)	565	MZ12T5	563	MZ500-9	565	N7401A	1801	N-EA15X137	1617	NPC173	2016
MT461A	1122	MTZ5.1(C)	565	MZ12T10	563	MZ500-11	561	N7401F	1801	N-EA15X138	1617	NPC187	2030
MT462	1122	MTZ5.1B	565	MZ12T20	563	MZ500-15	562	N7401N	1801	N-EA16X27	1123	NPC188	2016
MT462A	1104	MTZ6.2	561	MZ15A	564	MZ500-18	563	N-7404A	1802	N-EA16X29	563	NPC189	2030
MT463	1102	MTZ6.2(C)	561	MZ15T5	564	MZ500-20	564	N7404A	1802	N-EA16X30	1104	NPC211N	2062
MT463A	1102	MTZ6.2BT	561	MZ15T10	564	MZ500.9	565	N7404F	1802	NF520	2035	NPC212N	2062
MT464	1102	MTZ6.2BT-77	561	MZ15T20	564	MZ500.15	562	N7404N	1802	NF522	2035	NPC213N	2062
MT464A	1102	MTZ9.1	562	MZ70-4.7	565	MZ500.18	563	N-7408A	1822	NF523	2035	NPC214N	2062
MT482	1101	MTZ9.1(C)	562	MZ70-4.7A	565	MZ605	561	N7408A	1822	NF531	2035	NPC215N	2062
MT482A	1122	MTZ12	563	MZ70-4.7B	565	MZ610	561	N7408F	1822	NF533	2035	NPC216N	2062
MT482B	1122	MTZ15	564	MZ70-5.1	565	MZ620	561	N7408N	1822	NF550	1104	NPC290	2030
MT483	1104	MTZ608	561	MZ70-5.1A	565	MZ640	561	N7447A	1805	NF4302	2062	NPC312N	2035
MT483A	1104	MTZ608A	561	MZ70-5.1B	565	MZ829	561	N7447AF	1805	NF4303	2062	NPC737	1617
MT483B	1104	MTZ613	562	MZ70-6.2	561	MZ829A	561	N7447B	1805	NF5485	2035	NPC1075	2009
MT484	1102	MTZ613A	562	MZ70-6.2A	561	MZ939	562	N7447F	1805	NF5486	2035	NPD0531	1122
MT484A	1122	MTZ616	563	MZ70-6.2B	561	MZ939A	562	N7490A	1808	NGP3002	1123	NPS404	2023
MT484B	1122	MTZ616A	563	MZ70-8.7	562	MZ939B	562	N7490F	1808	NGP3003	1143	NPS404A	2023
MT485	1102	MTZ618	564	MZ70-8.7A	562	MZ1000-5	565	N7490N	1808	NGP5002	561	NPS6512	2009
MT485A	1102	MTZ618A	564	MZ70-8.7B	562	MZ1000-6	565	N8875F	1801	NGP5007	562	NPS6513	2009
MT485B	1102	MV4	1122	MZ70-9.1	562	MZ1000-8	561	N8881F	1801	NGP5010	563	NPS6514	2009
MT486	1103	MV-5	1104	MZ70-9.1A	562	MZ1000-12	562	N8881N	1801	NJ100A	2016	NPS6518	2027
MT486A	1103	MV-13(BIAS)	1104	MZ70-9.1B	562	MZ-1000-15	563	NA-13	1104	NJ100B	1617	NPS6519	2009
MT486B	1103	MV-13(DIO)	1122	MZ70-12	563	MZ1000-15	563	NA13	1104	NJ101B	2023	NPS6520	2009
MT696	1617	MV-13(HV-46)	1144	MZ70-12A	563	MZ1000-17	564	NA22	1104	NJ102C	1617	NPS6522	2009
MT697	1617	MV5074B	026	MZ70-12B	563	MZ1005	565	NA25	1104	NJ107	2030	NPS6523	2009
MT706	1617	MV5491	025	MZ70-15	564	MZ1006	561	NA-32	1104	NJ202B	2016	NPSA20	2016
MT706A	1617	MV5753	041	MZ70-15A	564	MZ1009	562	NA32	1104	NJM555D	1723	NR041	2009
MT706B	1617	MV57164	081	MZ70-15B	564	MZ1012	563	NA33	1104	NJM4558D	038	NR041E	2009
MT707	1617	MVA-05A	1104	MZ70MA	561	MZ2360	1122	NA-35	1104	NJM4558D-1	038	NR-071AU	1617
MT708	1617	MVA-05A(DIO)	1104	MZ92-4.7	565	MZ2361	1122	NA35	1104	NJM4558DD	038	NR091ET	2009
MT726	2023	MVA-05A(RECT)	1104	MZ92-4.7A	565	MZ4624	565	NA36	1104	NJM4558D-K	038	NR201AY	1617
MT743	2016	MX-3108	2009	MZ92-4.7B	565	MZ4625	565	NA-42	1104	NJM4558DM	038	NR-261AS	2009
MT744	2016	MX-3122	2058	MZ92-5.1	565	MZ4627	561	NA42	1104	NJM4558K	038	NR261AS	1617
MT753	2016	MX-3123	2058	MZ92-5.1A	565	MZL4.7A10	565	NA-45	1104	NKT4055	2043	NR271AY	1617
MT869	2023	MX-3267	2009	MZ92-5.1B	565	MZL4.7B10	565	NA45	1104	NKT10339	1617	NR401	1617
MT890	1104	MX-3634	2411	MZ92-6,0B	561	MZL5.1A10	565	NA46	1104	NKT10419	1617	NR401EG	1617
MT1038	2016	MX3634	2411	MZ92-6.0B	561	MZL5.1B10	565	NA-62	1104	NKT10439	1617	NR401EH	1617
MT1038A	2016	MX-3733	2058	MZ92-6.2	561	MZL6.2A10	561	NA-63	1104	NKT10519	1617	NR421	2016
MT1039	2016	MX3733	2058	MZ92-6.2A	561	MZL6.2B10	561	NA-65	1104	NKT12329	1617	NR421DG	2016
MT1060A	2016	MX-3743	2009	MZ92-6.2B	561	MZL8.7A10	562	NA-66	1104	NKT12429	1617	NR-431AS	1617
MT1061	2016	MX-3937	2009	MZ92-8.7	562	MZL8.7B10	562	NA-74	1114	NKT13329	1617	NR441	1617
MT1061A	2016	MX-3944	2023	MZ92-8.7A	562	MZL9.1A10	562	NA74	1114	NKT13429	1617	NR441EG	1617
MT1070	2017	MX-3978	2009	MZ92-8.7B	562	MZL9.1B10	562	NA-75	1114	NKT16229	2016	NR441EN	1617
MT1131	2023	MX-4160	2009	MZ92-9.1	562	MZL12A10	563	NA75	1114	NKT20329	2023	NR461	2009
MT1131A	2023	MX-4491	2009	MZ92-9.1A	562	MZL12B10	563	NA-76	1114	NKT20339	2023	NR461AA	2016
MT1132	2023	MX-4492	2023	MZ-92-9.1B	562	MZL15A10	564	NA76	1114	NKT35219	2016	NR461AF	2016
MT1132A	2023	MX-4504	2009	MZ92-9.1B	562	MZL15B10	564	NA-84	1114	NKT80111	2062	NR-461AS	1617
MT1132B	2023	MX-4539	2058	MZ92-12	563	MZL312	563	NA84	1114	NKT80112	2062	NR461EG	2009
MT1254	2023	MX-4540	2058	MZ92-12A	563	MZ-OO	1122	NA-85	1114	NKT80113	2062	NR461EH	2009
MT1255	2023	MX-4541	2009	MZ92-12B	563	MZU4.7A10	565	NA85	1114	NKT80211	2035	NR601BT	2023
MT1256	2023	MX-4873	2009	MZ92-15	564	MZU4.7B10	565	NA-86	1114	NKT80212	2035	NR621AT	2023
MT1257	2023	MX-4972	2009	MZ92-15A	564	MZU5.1A10	565	NA86	1114	NKT80213	2035	NR621EU	2023
MT1258	2023	MX-4973	2023	MZ92-15B	564	MZU5.1B10	565	NA-104	1114	NKT80214	2035	NR631AY	2023
MT1259	2023	MX-5368	2009	MZ205	565	MZU6.2A10	561	NA104	1114	NKT80215	2062	NR7916	2035
MT1420	2023	MX-5369	2023	MZ206	561	MZU6.2B10	561	NA-105	1114	NKT80216	2062	NS200	1617
MT1613	2030	MX-5370	2009	MZ-209	562	MZU8.7A10	562	NA105	1114	NKT800112	2035	NS316	2035
MT1711	2030	MX-5371	2009	MZ209	562	MZU8.7B10	562	NA2002	703	NKT800113	2035	NS345	2016
MT1889	1123	MX-5372	2016	MZ209A	562	MZU9.1A10	562	NAM383	703	NL-2N683	2009	NS381	2016
MT1991	2023	MX5741	1723	MZ209B	562	MZU9.1B10	562	NB011EN	2009	NL5	1104	NS382	2016
MT2303	2023	MY-1	1104	MZ209C	562	MZU12A10	563	NB013	2016	NL10	1104	NS383	1617
MT2411	2023	MZ-00	1122	MZ-212	563	MZU12B10	563	NB021EV	2023	NL15	1104	NS384	1617
MT2412	2023	MZ090	562	MZ212	563	MZU15A10	564	NB021EV(N.S.)	2023	NL20	1104	NS404	2023
MT3001	2016	MZ4A	565	MZ250	562	MZU15B10	564	NB121	2023	NL25	1104	NS475	1617
MT3002	2016	MZ4.7T5	565	MZ305	565	MZU82A10	562	NC29	1123	NL30	1104	NS476	1617

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NS477	1617	NT0.6C15	564	NTE524V13	568	NTE75188	2520	OAZ207	562	OSS36503	1104	P2GE	2023
NS478	1617	NT50C4V7	565	NTE552	1104	NTE75189	2521	OAZ209	565	OSS36685	1104	P2H	2023
NS479	1617	NT55C4V7	565	NTE778A	038	NTP6V2	561	OAZ210	561	OSS-36885	1104	P2K	2027
NS480	1617	NT101	1067	NTE823	1731	NTP9V1	562	OAZ212	562	OSS36885	1104	P2L	2023
NS661	2023	NT1056	1617	NTE832	1721	NTP12	563	OAZ213	563	OV2764KFA552	1251	P2M-1	2023
NS662	2023	NT1503	2016	NTE834	1712	NTP15	564	OAZ240	565	OY101	1104	P2M-2	2023
NS663	2023	NT2222A	2009	NTE858M	1715	NU34	1123	OAZ241	565	OY5061	1104	P2M-3	2023
NS664	2023	NT5007	2023	NTE923D	1740	NV10A	1114	OAZ243	561	OY5062	1104	P2P	2023
NS665	2023	NT5512	565	NTE941M	007	O2Z12A	563	OAZ247	562	OY5063	1104	P2S	2023
NS666	2023	NT6034	2016	NTE955M	1723	O2Z12GR	563	OAZ269	565	OY5064	1104	P2W	2023
NS667	2023	NTC-4	2058	NTE956	1778	O4-8054-3	1104	OAZ270	561	OY5065	1104	P2Y	2023
NS668	2023	NTC-5	2016	NTE960	1770	O4-8054-4	1104	OAZ272	562	OY5066	1104	P3/2H	1104
NS731	1617	NTC-6	2023	NTE966	1771	O4-8054-7	1104	OAZ273	563	OY5067	1114	P3A5	1104
NS731A	1617	NTC-7	2009	NTE968	1772	O101	1104	OB2764K-2	1251	OZ5.1T5	565	P3B5	1104
NS732	2023	NTC-10	2023	NTE978	1728	O573510	2016	OC200	2023	OZ5.1T10	565	P3C	2023
NS732A	2023	NTC-11	2009	NTE987	1711	O575005	1123	OC201	2023	OZ6.2T5	561	P3C5	1104
NS733	1617	NTC-12	2055	NTE1155	705	OA2	1101	OC202	2023	OZ6.2T10	561	P3D5	1104
NS733A	1617	NTC-13	1123	NTE1232	703	OA6	1123	OC203	2023	OZ12T5	563	P3W	2043
NS734	1617	NTC-14	1123	NTE3007	026	OA7	1123	OC204	2023	OZ12T10	563	P3Z	2023
NS734A	1617	NTC-15	1122	NTE3012	033	OA9	1123	OC205	2023	OZ15T5	564	P4A5	1104
NS949	1617	NTC-17	1104	NTE3022	041	OA9D	1123	OC206	2023	OZ15T10	564	P4B5	1104
NS1000	1101	NTC-19	1104	NTE3026	025	OA10	1141	OC207	2023	P0100AD	1067	P4C	2023
NS1001	2023	NTE2V130	570	NTE3030	036	OA47	1123	OC430	2023	P0100BA	1067	P4C5	1104
NS1356	2016	NTE85	2009	NTE3047	134	OA50	1123	OC430K	2023	P0100BB	1067	P4D5	1104
NS1500	1617	NTE107	2016	NTE3056	075	OA-70	1123	OC440	2023	P0100BD	1067	P4G	2023
NS1510	2016	NTE108	2016	NTE3061	053	OA70	1123	OC440K	2023	P0100CD	1020	P4J148	2020
NS1672	2023	NTE108-1	2016	NTE3115	081	OA71	1123	OC443	2023	P0100DA	1020	P4K	2023
NS1673	2023	NTE109	1123	NTE4001B	2401	OA71C	1123	OC443K	2023	P0100DB	1020	P4P	2023
NS1674	2023	NTE110MP	1123	NTE4011B	2411	OA72	1123	OC445	2023	P0100DD	1020	P4R	2023
NS1675	2023	NTE114	1101	NTE4013B	2413	OA73	1123	OC445K	2023	P0102AA	1067	P4W	2027
NS1861	2023	NTE115	1101	NTE4017B	2417	OA73C	1123	OC449	2023	P0102AB	1067	P4Y	2023
NS1862	2023	NTE116	1104	NTE4049	2449	OA74	1123	OC449K	2023	P0102BA	1067	P4Z	2030
NS1863	2023	NTE117	1114	NTE4066B	2466	OA74A	1123	OC450	2023	P0102BB	1067	P5A5	1104
NS1864	2023	NTE120	1101	NTE4164	2506	OA79	1123	OC460	2023	P0102CA	1020	P5B	2023
NS1972	1617	NTE123	1617	NTE5009A	565	OA81	1123	OC460K	2023	P0102CB	1020	P5B5	1104
NS1973	1617	NTE123A	1617	NTE5010A	565	OA81C	1123	OC463	2023	P0102DA	1020	P5C	2023
NS1974	1617	NTE123AP	2009	NTE5013A	561	OA85	1123	OC463K	2023	P0102DB	1020	P5C5	1104
NS1975	1617	NTE125	1114	NTE5017A	562	OA85C	1123	OC465	2023	P0103AD	1067	P5D	2023
NS2000	1114	NTE128	2030	NTE5018A	562	OA-90	1123	OC465K	2023	P0103BA	1067	P5D5	1104
NS2006	1114	NTE130	2041	NTE5021A	563	OA90	1123	OC466	2023	P0103BB	1067	P5H	2027
NS2007	1114	NTE132	2035	NTE5024A	564	OA-90(G)	1123	OC466K	2023	P0103BD	1067	P5U	2027
NS2008	1114	NTE133	2035	NTE5069A	565	OA90-FM	1123	OC467	2023	P0103CD	1020	P6/2H	1104
NS2100	2030	NTE135A	565	NTE5070A	561	OA90AG	1123	OC467K	2023	P0103DA	1020	P6A5	1104
NS2101	2030	NTE137A	561	NTE5073A	562	OA90FM	1123	OC468	2023	P0103DB	1020	P6B5	1104
NS3000	1114	NTE139A	562	NTE5304	1173	OA90FV	1123	OC468K	2023	P0103DD	1020	P6C5	1104
NS3006	1114	NTE141A	563	NTE5400	1067	OA90G	1123	OC469	2023	P1A5	1104	P6D5	1104
NS3007	1114	NTE142A	563	NTE5401	1067	OA90GA	1123	OC469K	2023	P1B	2023	P6RP8	1114
NS3008	1114	NTE145A	564	NTE5402	1067	OA90LF	1123	OC470	2023	P1B5	1104	P6RP10	1114
NS3039	2016	NTE152	2020	NTE5403	1067	OA90M	1123	OC470K	2023	P1C	2023	P7A5	1104
NS3040	2016	NTE153	2027	NTE5404	1067	OA90MLF	1123	OC700	2023	P1C5	1104	P7B5	1104
NS3041	2016	NTE156	1114	NTE5405	1020	OA90Z	1123	OC700A	2023	P1CG	2023	P7C5	1104
NS3300	2016	NTE159	2023	NTE5408	1067	OA91	1123	OC700B	2023	P1D	2023	P7D5	1104
NS3903	1617	NTE159MCP	2009&23	NTE5409	1020	OA92	1123	OC702	2023	P1D5	1104	P8/2H	1104
NS3904	1617	NTE161	2016	NTE5411	1067	OA-95	1122	OC702A	2023	P1E	2043	P8H	2027
NS3905	2023	NTE164	2055	NTE5412	1067	OA95	1123	OC702B	2023	P1E-1BLK	2043	P16	1101
NS3906	2023	NTE165	2055	NTE5413	1067	OA99	1123	OC704	2023	P1E-1BLU	2043	P17	1101
NS6001	2023	NTE166	1171	NTE5414	1067	OA126/5	565	OC740	2023	P1E-1GRN	2043	P20	1104
NS6062	2023	NTE168	1173	NTE5415	1020	OA126/12	563	OC740G	2023	P1E-1RED	2043	P32H	1104
NS6063	2023	NTE177	1122	NTE5452	1067	OA127	1104	OC740M	2023	P1E-1VIO	2043	P62H	1104
NS6064	2023	NTE178MP	1122	NTE5453	1067	OA128	1104	OC740O	2023	P1E-2BLK	2043	P67	2023
NS6065	2023	NTE186	2017	NTE5454	1067	OA129	1104	OC742	2023	P1E-2BLU	2043	P82H	1104
NS6112	2016	NTE196	2020	NTE5455	1067	OA130	1104	OC742G	2023	P1E-2GRN	2043	P100	1104
NS6113	2016	NTE199	2016	NTE5456	1020	OA131	1104	OC742M	2023	P1E-2RED	2043	P100A	1104
NS6114	1617	NTE219	2043	NTE5457	1020	OA132	1104	OC742O	2023	P1E-2VIO	2043	P100B	1104
NS6115	1617	NTE229	2058	NTE5473	1020	OA134Q	1123	OC7400	2023	P1E-3BLK	2043	P100D	1104
NS6207	1617	NTE233	2009	NTE5511	1067	OA150	1123	OC7420	2023	P1E-3BLU	2043	P100G	1104
NS6210	1617	NTE234	2023	NTE5512	1020	OA159	1123	OF156	1122	P1E-3GRN	2043	P100J	1104
NS6211	2023	NTE238	2055	NTE5608	1000	OA160	1123	OF160	1104	P1E-3RED	2043	P150A	1104
NS6241	2023	NTE241	2020	NTE5629	1000	OA161	1123	OF162	1122	P1E-3VIO	2043	P150B	1104
NS7261	2016	NTE261	2068	NTE5633	1000	OA172	1123	OF164	1104	P1H	2023	P150D	1104
NS7262	1617	NTE280	2041	NTE5640	1000	OA174	1123	OF173	1123	P1J	2023	P150G	1104
NS7267	2016	NTE281	2043	NTE5641	1000	OA180	1104	OF305	1123	P1N	2023	P150J	1104
NS9400	2030	NTE289	2009	NTE5642	1000	OA182	1123	OF449	1122	P1N-1	2023	P200	1104
NS9420	2030	NTE289A	2009	NTE5650	1000	OA200	1122	ON67A	1123	P1N-2	2023	P300A	1141
NS9500	2030	NTE290	2023	NTE5651	1000	OA202	1122	ON271	2009	P1N-3	2023	P300B	1143
NS9540	2030	NTE290A	2023	NTE5652	1000	OA205	1122	ON274	1617	P1P	2023	P300D	1143
NS9710	2016	NTE291	2020	NTE5800	1141	OA210	1104	OS-1D	1104	P1P-1	2023	P300G	1144
NS9728	2030	NTE312	2035	NTE5801	1143	OA211	1104	OS-4D	1104	P1V-4	2027	P300GG1	1104
NS9729	2030	NTE319	2009	NTE5802	1143	OA214	1104	OS-6D	1104	P1W	2023	P346	2016
NS9730	2030	NTE319P	2009	NTE5803	1144	OA541	1123	OS-8D	1114	P2A	2023	P400	1104
NS9731	2030	NTE331	2020	NTE5804	1144	OA909	1123	OS70	1123	P2A5	1104	P580	1114
NS45006	2009	NTE340	2009	NTE7400	1801	OA2002	1122	OS536G	2009	P2B	2027	P600	1104
NSDU01A	2017	NTE377	2020	NTE7401	1801	OA2005	1122	OS16308	1104	P2B5	1104	P800	1114
NSL5057	041	NTE451	2062	NTE7404	1802	OA12612	563	OSS-16308	1104	P2C5	1104	P1000	1114
NSL5076A	026	NTE457	2062	NTE7408	1822	OAZ200	565	OSS16308	1123	P2D5	1104	P1000A	2023
NSS1021	1114	NTE507	1101	NTE7447	1805	OAZ201	565	OSS-16685	1123	P2E	2023	P1055	1123
NT0.6C12	563	NTE519	1122	NTE7490	1808	OAZ203	561	OSS16685	1123	P2G	2023	P1087	2035

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P1087E	2035	PA9267	561	PD6048	565	PET8004	1617	PL1031	2023	PN930	2009	PR804	565
P1172	1122	PA10556	1104	PD6050	561	PET8005	1617	PL1033	2023	PN930(NSC)	2009	PR5400	1114
P1172-1	1122	PA10887	1104	PD6054	562	PET8005A	1617	PL1034	2023	PN930(NTLB)	2009	PR5401	1114
P2221	2009	PB6013	2023	PD6057	563	PET8006	1617	PL1051	2016	PN1613	2030	PR5402	1114
P2221A	2009	PB6013A	2023	PD6059	564	PET8006A	1617	PL1052	1617	PN1711	2030	PR5403	1114
P2222	2009	PB6013B	2023	PD6202	565	PET8007	1617	PL1053	2016	PN2221A	2009	PR5404	1114
P2222A	2009	PB6014	2023	PD6209	562	PET8007A	1617	PL1054	1617	PN2222	2009	PR5405	1114
P2271	2041	PB6014A	2023	PDR25	1101	PET8101	2016	PL1055	2016	PN2222A	2009	PR5406	1114
P2440	1114	PBC107	2016	PDR50	1101	PET8200	2030	PL1061	2016	PN2369	2009	PR5407	1114
P2906	2023	PBC107A	2016	PE210	2058	PET8201	2016	PL1062	2016	PN2369A	2009	PR5408	1114
P2906A	2023	PBC107B	2016	PE210C	2058	PET8202	2030	PL1063	2016	PN2484	2016	PR-5534S	018
P2907	2023	PBC108	2016	PE254A	2058	PET8203	2030	PL1064	2016	PN2904	2023	PR5534S	018
P2907A	2023	PBC108A	2016	PE254B	2058	PET8204	2009	PL1065	2016	PN2904A	2023	PRS3017	565
P3139	2041	PBC108B	2016	PE254C	2058	PET8250	2016	PL1066	2016	PN2905A	2023	PRT-101	1617
P4069	2030	PBC108C	2016	PE401	1104	PET8251	2016	PL1067	2016	PN2906	2023	PRT-104	1617
P4326	1122	PBC109	2016	PE401N	1104	PET8300	2016	PL1081	2016	PN2906A	2023	PRT-104-1	1617
P5100	1114	PBC109B	2016	PE402	1104	PET8301	2023	PL1082	2016	PN2907	2023	PRT-104-2	1617
P5149	2041	PBC109C	2016	PE403	1104	PET8303	2023	PL1083	2030	PN2907A	2023	PRT-104-3	1617
P5152	1617	PBC182	2016	PE404	1104	PET8304	2023	PL1084	2030	PN2908	2023	PRT-104-4	2030
P5153	1617	PBC183	2009	PE405	1104	PET9001	2009	PL1091	2035	PN3250	2023	PS005	1104
P-6006	1122	PBE3322	1123	PE406	1104	PET9002	1617	PL1092	2035	PN3250A	2023	PS010	1104
P7109	1114	PBM6004	2023	PE407	1114	PET9021	2030	PL1093	2035	PN3251	2023	PS015	1104
P7394	1122	PC02P1/2	1104	PE408	1114	PET9022	2030	PL1094	2035	PN3251A	2023	PS020	1104
P8393	1617	PC0211/2	1104	PE409	1114	PG4001	1101	PL1101	2023	PN3563	2016	PS025	1104
P8394	1617	PC0.2P11/2	1104	PE410	1114	PG4002	1104	PL1102	2023	PN3564	2016	PS030	1104
P9459	1104	PC100	2020	PE501	1104	PG4003	1102	PL1103	2023	PN3565	2009	PS035	1104
P10115	1104	PC110	2020	PE502	1104	PG4004	1103	PL1104	2023	PN3566	2009	PS040	1104
P10115A	1114	PC-713U	2020	PE503	1104	PG4005	1104	PL1111	2016	PN3638	2023	PS050	1104
P10155	1123	PC1007	2023	PE504	1104	PG4006	1114	PL1112	2016	PN3638A	2023	PS060	1104
P10156	1104	PC1007A	2023	PE505	1104	PG4007	1114	PL1113	2016	PN3641	2009	PS0125	1104
P10156A	1114	PC1008	2023	PE506	1104	PGR-24	1143	PL4001L	1101	PN3642	2009	PS1A	1104
P21316	1104	PC1008A	2023	PE507	1114	PH9-221	1171	PL4003L	1102	PN3643	2009	PS-1.5-2	1114
P21317	1104	PC1008B	2023	PE508	1114	PH9D5	1114	PL4004L	1103	PN3644	2023	PS105	1104
P21344	562	PC4004	1104	PE509	1114	PH9D522/11	1173	PL4006L	1114	PN3645	2023	PS110	1104
P21443	1104	PC7805H	1770	PE510	1114	PH9D522M	1171	PL4007L	1114	PN3662	2016	PS120	1104
P38103/507-10	564	PC17805H	1770	PE3001	2009	PH9D5221	1171	PL4021	2009	PN3663	2016	PS125	1104
P633024C(SYLVANIA)		PC-20066	2016	PE3002	2016	PH9DS22	1104	PL4051	2009	PN3691	2009	PS130	1104
	2030	PD05	1171	PE3015	2009	PH9DS221	1171	PL4052	2009	PN3692	2009	PS135	1104
P633024G	2030	PD10	1171	PE5010	2009	PH11C22/1	1144	PL4053	2009	PN3694	2009	PS140	1104
PA069	1104	PD40	1173	PE5013	2009	PH25C22	1104	PL4054	2009	PN4013	2009	PS150	1104
PA070	1104	PD101	1104	PE5015	2009	PH25C22/1	1104	PL4055	2009	PN4121	2023	PS160	1104
PA071	1104	PD102	1104	PE5025	2009	PH25C22/21	1104	PL4061	2016	PN4122	2023	PS405	1104
PA3	1104	PD103	1104	PE5030	2009	PH25C221	1171	PL4062	2016	PN4140	2009	PS410	1104
PA9D522/1	1171	PD104	1104	PE5030A	2009	PH109	1114	PLE-48	2020	PN4141	2009	PS415	1104
PA200	1104	PD105	1104	PE5030B	2009	PH204	1104	PLQ0.8	1104	PN4142	2023	PS420	1104
PA300	1104	PD106	1104	PE5031	2016	PH208	1104	PM101-1	1102 N2	PN4143	2023	PS425	1104
PA305	1104	PD107	1104	PEP2	1617	PH404	1104	PM101-2	1102 N2	PN4248	2023	PS430	1104
PA305A	1104	PD107A	1104	PEP5	1617	PH1021	1104	PM101-4	1102 N2	PN4249	2023	PS435	1104
PA310	1104	PD108	1104	PEP6	1617	PIC	2023	PM101-6	1102 N2	PN4258	2023	PS440	1104
PA310A	1104	PD110	1104	PEP7	1617	PL6V2Z	561	PM102-1	1104 N1	PN4275	2009	PS450	1104
PA315	1104	PD111	1104	PEP8	1617	PL9V1Z	562	PM102-2	1104 N1	PN4354	2023	PS460	1104
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PA330	1104	PD132	1104	PET3001	2016	PL-151-040-9-003	1104	PMT014	2009	PN5130	2016	PS617	1104
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RD12FA	563	RE51	1114	RECT-SI-1005	1104	RF-1Z	1104	RGP-10G	1104	RH-DX0130CEZZ	1104	RM-1V	1104
RD12FB	563	RE-52	1104	RECT-SI-1020	1104	RF1Z	1104	RGP10G	1104	RH-DX0131CEZZ	1104	RM-1Z	1104
RD12FB1	563	RE52	1122	RECT-SI-1021	1104	RF101	1101	RGP-10J	1104	RH-DX0136TAZZ	1114	RM1Z	1104
RD12FB2	563	RE-61	2043	RECT-SI-1026(AU)	1104	RF200	2016	RGP10J	1104	RH-DX0142CEZZ	1122	RM1ZM	1104
RD12FB3	563	RE61	2043	RECT-SI-1030	1104	RF300	1102	RGP10J,G23	1104	RH-DX0154CEZZ	1102	RM1ZMV	1104
RD12FBT	563	RE62	2023	RECT-SI-1039	1103	RF1811	1123	RGP10JG23	1104	RH-DX0155CEZZ	1102	RM-1ZV	1104
RD12JB	563	RE63	2023	RECT-SI-1044	1104	RF3160	1104	RGP20GL	1114	RH-DX0181CEZZ	1104	RM1ZV	1104
RD12JB2	563	RE64	2016	RECT-SI-1044(AU)	1104	RF3472	1104	RGP25K	1114	RH-DX0202CEZZ	1104	RM2	1104
RD12M	563	RE66	2009	RECT-UG-1003	1171	RF5794	1101	RGP25M	1114	RH-DX0236CEZZ	1122	RM2-C-Z	1114
RD12MB	563	RE-67	2016	RECT-UG-1004	1173	RF-6235-1	1104	RGP-100	1104	RH-DX0237CEZZ	1122	RM-2A	1114
RD13AL	563	RE67	2016	REJ70643	1104	RF26231-1	1104	RGP5040	1104	RH-DX1005AFZZ	1104	RM-2AV	1114
RD-13AN	563	RE70	2030	REJ70931	1104	RF26234-1	1104	RGP5080	1114	RH-DY0003SEZZ	1104	RM2B	1114
RD13BL	563	RE72	2023	REJ71253	1122	RF26235-1	1104	RGPP10J	1104	RH-EX002YTAZZ	565	RM-2C	1114
RD13CL	563	RE-82	2043	REN61	2043	RF26235-2	1104	RH-1	1104	RH-EX0011GEZZ	564	RM2C	1114
RD13K	563	RE82	2043	REN62	2023	RF26235-5	1104	RH1	1104	RH-EX0015CEZZ	563	RM2CS	1114
RD15E	564	RE86	1123	REN63	2023	RF29799P	1104	RH-1A	1104	RH-EX0017CEZZ	563	RM2C-Z	1114
RD15EA	564	RE-88	1101	REN64	2016	RF31903P	1104	RH1A	1104	RH-EX0019GEZZ	564	RM-2SC	1114
RD15EB	564	RE88	1101	REN67	2016	RF32101-8	1104	RH-1BV	1104	RH-EX0020GEZZ	565	RM-2V	1114
RD15EB2	564	RE-89	1101	REN70	2020	RF32101-9	1104	RH-1M	1104	RH-EX0024CEZZ	561	RM2Z	1104
RD15E-B3	564	RE89	1101	REN75	1114	RF32101R	1104	RH1M	1104	RH-EX0024TAZZ	565	RM4	1114
RD15EB3	564	RE-90	1114	REN94	1122	RF32412-3	1104	RH-1S	1104	RH-EX0038CEZZ	563	RM4A	1114

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
RM4B	1114	RS-2009	2009	RS7140	2016	RS7518	2009	RT126	1617	RT1840	1104	RT5907	2030
RM4C	1114	RS2009	1617	RS7141	2016	RS7519	2009	RT-126A	2023	RT2016	1617	RT5908	1123
RM4Y	1114	RS-2010	2009	RS7142	2016	RS7520	2016	RT-131	2041	RT2061(G.E.)	1122	RT5909	1122
RM4Z	1114	RS2010	2009	RS7143	2016	RS7521	2009	RT131	2041	RT2309	2016	RT5911	1104
RM10	1104	RS-2011	2016	RS7144	2016	RS7522	2016	RT-133	2020	RT2332	1617	RT5912	1123
RM10A	1114	RS-2013	2009	RS7145	2016	RS7523	2016	RT-134	2016	RT2334	1123	RT5939	1123
RM10B	1114	RS2013	2009	RS7160	1617	RS7524	2016	RT-139	2055	RT2451	1123	RT6119	1123
RM10M	1114	RS-2014	2030	RS7161	2016	RS7525	2009	RT-140	2055	RT2452	1123	RT6157	2016
RM10MV	1114	RS-2015	2016	RS7162	2016	RS7526	2009	RT-141	2030	RT2669	1104	RT6158	2016
RM10Z	1114	RS-2016	2009	RS7163	2016	RS7527	2009	RT141	2030	RT2694	1123	RT6159	2016
RM11	1114	RS2016	2009	RS7164	2016	RS7528	2009	RT-150	2020	RT2914	2009	RT6160	2016
RM11A	1114	RS2017	2020	RS7165	2016	RS7529	2009	RT150	2020	RT2915	2016	RT6179	1123
RM11B	1114	RS2018	2020	RS7166	2016	RS7530	2009	RT-151	2027	RT3063	1617	RT6180	1123
RM11C	1114	RS2019	2020	RS7167	2016	RS7532	2016	RT151	2027	RT3064	1617	RT6181	1123
RM1S	1104	RS-2021	2023	RS7168	2016	RS7533	2016	RT-152	2017	RT3065	2023	RT6182	1123
RM-103	1114	RS-2022	2023	RS7169	2016	RS7542	2009	RT152	2017	RT3069	2016	RT6183	1123
RM3005	2020	RS2022	2023	RS7170	2016	RS7543	2009	RT-154	2041	RT3070	2016	RT6184	1123
RM4558	038	RS-2023	2023	RS7173	2058	RS7544	2009	RT154	2030	RT3071	2023	RT6189	1123
RMIV	1104	RS-2024	2023	RS7174	2016	RS7555	2009	RT-155	2027	RT3072	1123	RT6201	2058
RMP5020	1104	RS2025	2027	RS7175	2016	RS7606	1617	RT155	2027	RT3095	2016	RT6202	2058
RMPTJ0029CEZZ	561 N5	RS-2028	2035	RS7176	2016	RS7607	1617	RT-158	2020	RT3099	1123	RT6203	2016
RMVTC00921-3	1101	RS-2030	1617	RS7177	2016	RS7609	1617	RT-164	2020	RT3225	2016	RT-6204	2009
RO2	1114	RS-2031	2009	RS-7201	2016	RS7610	1617	RT-166	2020	RT3226	2016	RT6204	2009
RO2A	1114	RS-2032	2023	RS7201	2016	RS7611	1617	RT-172	1104	RT3227	2016	RT6322	1104
RO2Z	1114	RS-2033	1617	RS-7202	2016	RS7612	1617	RT-175	2035	RT3228	1617	RT6332	1104
RO102	1104	RS-2034	2023	RS7202	2016	RS7613	1617	RT175	2035	RT3232	2016	RT6600	2016
RP4Z	1114	RS2039	2041	RS7209	2016	RS7614	1617	RT-176	2035	RT3233	1123	RT6600MHF25	2009
RQ-409S	1104	RS2040	2043	RS7210	2016	RS7620	1617	RT176	2035	RT3336	1123	RT6601	2058
RQ-444S	2009	RS2041	2041	RS7211	2016	RS7621	1617	RT-177	2035	RT3443	1104	RT6602	2058
RR7504	1617	RS2043	2043	RS-7212	2016	RS7622	1617	RT-187	2009	RT3469	1123	RT6605	1114
RR8068	1617	RS2801	1123	RS7212	2016	RS7623	1617	RT-188	2030	RT3558	1104	RT6619	1123
RR8070	2016	RS2914	1617	RS7214	2016	RS7624	2009	RT188	2030	RT3565	1617	RT6728	1123
RR8116	2016	RS3570	1104	RS7215	2016	RS7625	2009	RT-194	2041	RT3567	2009	RT6729	1104
RR8118	2016	RS3727	1104	RS7216	2016	RS7626	2009	RT-197	2020	RT3585	1104	RT6731	1123
RR8119	2016	RS4001	2401	RS7217	2016	RS7627	2009	RT-200	1123	RT3671	564	RT6732	2009
RR8914	1617	RS4011	2411	RS7218	2016	RS7628	2009	RT-203	1114	RT3858	1104	RT6733	2009
RR8989	2016	RS4013	2413	RS7219	2016	RS7634	2009	RT-210	1114	RT3981	1104	RT6735	2041
RR8999	2016	RS4017	2417	RS7220	2016	RS7635	2009	RT210	1114	RT4050	1104	RT6737	2009
RRB24-06	1104	RS4049	2449	RS7221	2016	RS7636	2009	RT-212	1104	RT4069	1104	RT6787	2016
RS-05	1141	RS5851	1617	RS7222	2016	RS7637	2009	RT-213	1104	RT4232	1104	RT6791	1104
RS05	1141	RS5853	1617	RS7223	1617	RS7638	2009	RT213	1104	RT4293	1123	RT6921	2009
RS1	1104	RS5856	2009	RS7224	1617	RS7639	2009	RT-214	1104	RT4644	1123	RT6921MHF25	2009
RS1FM-12	1104	RS5857	2009	RS7225	2016	RS7640	2009	RT214	1104	RT4760	2016	RT-6922	565
RS1Z	1104	RS6344	1104	RS7226	1617	RS7641	2009	RT-215	1104	RT4761	2009	RT6922	565
RS10	1104	RS6461	1104	RS7227	2016	RS7642	2009	RT215	1104	RT-4764	1114	RT6989	2009
RS101	1171	RS6471	1104	RS7228	2016	RS7643	2009	RT-218	1122	RT4764	1104	RT6991	2016
RS102	1171	RS6523	2016	RS7229	2016	RS7665	2023	RT218	1122	RT4767	1104	RT7320	2016
RS104	1173	RS6705	1104	RS7230	2016	RS7678	2030	RT-220	1101	RT4880	1123	RT7321	2016
RS-107	1617	RS7101	2016	RS7231	2016	RS7814	2009	RT-222	1101	RT5061	2016	RT7322	2009
RS-108	1617	RS7102	2016	RS7232	1617	RS7916	2035	RT-223	1101	RT5070	1104	RT7323	2016
RS-109	2016	RS7103	1617	RS7233	2058	RS8101	2030	RT-235	565	RT5151	2030	RT7324	2016
RS-110	2023	RS7104	2016	RS7234	2009	RS8103	2030	RT235	565	RT5152	2030	RT7325	2009
RS128	1617	RS7105	1617	RS7235	2009	RS8105	2030	RT-237	561	RT5200	2016	RT7326	2009
RS132	2030	RS7106	2016	RS7236	1617	RS8107	2030	RT-240	562	RT5201	2016	RT7327	2009
RS136	1617	RS7107	2016	RS7237	2016	RS8109	2030	RT-243	563	RT5202	2009	RT7330	1123
RS201	1171	RS-7108	2016	RS7238	2009	RS8111	2030	RT-245	564	RT5203	2030	RT7402	1171
RS202	1171	RS7108	1617	RS7241	2009	RS8113	2030	RT-263	1123	RT5204	2009	RT7511	1617
RS204	1173	RS7109	2016	RS7242	2009	RS8430	1104	RT-267	1617	RT5205	2016	RT7514	2009
RS220AF	1104	RS7110	2016	RS7333	2016	RS8442	2009	RT-268	1617	RT5206	2009	RT7515	1617
RS230AF	1104	RS7111	1617	RS7334	2016	RS8503	2009	RT-269	2023	RT5207	2023	RT7517	1617
RS-253C	1122	RS7112	2016	RS7400	1801	RS9510	2016	RT-270	2023	RT5208	2016	RT7518	1617
RS-253S	1122	RS7113	2016	RS7404	1802	RS9511	2016	RT-302	2009	RT5212	1123	RT7528	1617
RS-267S	1122	RS7114	2058	RS7405	1617	RS9512	2016	RT-303	2023	RT5213	1123	RT7538	1123
RS-272US	1122	RS7115	2016	RS7406	1617	RSLNA0004CEZZ	1101	RT304	2009	RT5214	1123	RT7539	561
RS-279US	2016	RS7116	2016	RS7407	1617	RSWY/16L7Z	1123	RT-308	2016	RT5217	1122	RT7557	2009
RS-280S	1122	RS7117	2016	RS7408	1617	RT-100	1617	RT-309	2009	RT5379	1123	RT7559	2016
RS55S	1723	RS7118	2016	RS7408(IC)	1822	RT100	1617	RT-312	1617	RT5385	1104	RT7634	1104
RS-805US	2009	RS7119	2016	RS7409	1617	RT-101	1617	RT-313	2016	RT5401	2030	RT7636	1123
RS1049	1617	RS7120	2016	RS7410	1617	RT-102	2009	RT476	2009	RT5402	2030	RT7638	1617
RS1059	1617	RS7121	1617	RS7411	1617	RT-103	2023	RT482	2030	RT5403	2030	RT7689	1123
R-S1264	1104	RS7122	2016	RS7412	1617	RT103	1617	RT483	2030	RT5404	2030	RT7703	2016
RS1264	1104	RS7123	2016	RS7413	1617	RT-104	2016	RT484	2030	RT5435	2016	RT7704	2016
RS1290	562	RS-7124	2009	RS7415	1617	RT104	2009	RT697M	1617	RT5464	2016	RT7845	1617
RS1296	1104	RS7124	2016	RS7421	1617	RT-105	2016	RT699M	2030	RT5465	2016	RT7848	1141
RS-1347	1104	RS7125	2016	RS7447	1805	RT105	1617	RT-929-H	1617	RT5470	1123	RT7849	1104
RS1347	1104	RS7126	2016	RS7490	1808	RT106	2023	RT929H	1617	RT5472	1104	RT7850	1104
RS1348	563	RS-7127	2009	RS7504	1617	RT-107	2016	RT930H	2016	RT5551	2009	RT7851	1123
RS1428	1122	RS7127	2009	RS7510	1617	RT107	2016	RT1008	1123	RT5554	1122	RT7943	2009
RS1458	038	RS7128	2016	RS7511	2016	RT-108	2016	RT1106	1123	RT5738	1123	RT7945	2030
R-S-1720	1104	RS-7129	2009	RS7512	2016	RT108	2016	RT1108	1123	RT5793	561	RT7946	1122
RS1720	1104	RS7129	2009	RS7513	2009	RT-108A	1104	RT1184	1123	RT5900	2009	RT8047	2016
RS1726	2016	RS7132	1617	RS7513-15	2009	RT-112	2016	RT1395	1617	RT5901	1617	RT8193	1617
RS1749	1104	RS7133	1617	RS7514	2009	RT112	2016	RT1595	1104	RT5902	2016	RT8195	1617
R-S1805	1144	RS7135	2016	RS7515	2009	RT-113	2016	RT1667	1123	RT5903	2016	RT8197	2009
RS1805	1104	RS7136	1617	RS7516	2009	RT113	1617	RT1669	1122	RT5904	2016	RT8198	2009
RS1811	1123	RS7138	2016	RS7517	2009	RT-114	2030	RT-1689	1123	RT5905	2009	RT8201	2009
RS1832	1104	RS7139	2016	RS7517-19	2009	RT114	1617	RT1689	1122	RT5906	2030	RT8231	1104

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
RT8330	2009	RV1479	1123	RZ9.1	562	S1CN1	1104	S2K40	1102	S-12A	1143	S105	1104
RT8331	2035	RV2070	2016	RZ12	563	S1D	1114	S2M1	1143	S13	1104	S105A	1141
RT8332	1617	RV2071	1122	RZ12A	563	S1D2A-1	1122	S2M2	1141	S13A	1144	S106	1104
RT8333	2016	RV2072	1104	RZ15	564	S1D2A-3	1122	S2PB	1171	S14	1104	S106-05	1067
RT8335	2020	RV2213	562	RZ15A	564	S1D50B851-A	1122	S2PB10	1171	S14A	1144	S106-1	1067
RT8336	2027	RV2248	2016	RZZ4.7	565	S1D51C0S2-19	1104	S2PB40	1173	S14K130	570	S106-2	1067
RT8337	2016	RV2249	2009	RZZ5.1	565	S1D51C169-1	1104	S2Q20	1104	S-15	1104	S106-4	1020
RT8338	2027	RV2250	1104	RZZ6.2	561	S1D153	2020	S2Q40	1104	S15	1104	S106A	1067
RT8339	562	RV2260	2023	RZZ9.1	562	S1G10	1104	S2Q60	1104	S-15-10	1104	S106A1	1067
RT8340	1104	RV-2289	1104	RZZ12	563	S1G20	1104	S2Q80	1114	S15A	1104	S106A2	1067
RT8527	2016	RV2289	1104	S	562	S1G40	1104	S2Q100	1114	S15H	1122	S106B1	1067
RT8665	1114	RV2351	2023	S0013	2023	S1G40Z	1104	S2RB40	1173	S16	1104	S106B2	1067
RT8666	2016	RV2353	2023	S0026	2023	S1G60Z	1104	S2TB	1173	S16A	1104	S106C	1020
RT-8667	2035	RV2354	2009	S001683	2030	S1G80Z	1114	S2TB10	1171	S16B	1104	S106C1	1020
RT8667	2035	RV2355	2023	S0-4295-10	2041	S1GR2	1143	S2TB40	1173	S17	1104	S106C2	1020
RT8668	2058	RV4558DE	038	S02	1122	S1K20	1104	S2V	1114	S17A	1104	S106D	1020
RT8669	2016	RV4558NB	038	S04	1122	S1K20H	1104	S2V10	1114	S18	1104	S106D1	1020
RT8670	2023	RV4559DE	038	S-05	1104	S1K40	1104	S2V20	1114	S18A	1104	S106D2	1020
RT8671	1123	RV4559NB	038	S05	1104	S1L200	1104	S2V40	1114	S18B	1104	S106F	1067
RT8840	1104	RVD0.8C22/1A	1104	S-05/01	1114	S1M	1141	S2V60	1114	S19	1104	S106F1	1067
RT8841	1104	RVD1E1LF	1104	S-05-005	1104	S1M1	1141	S2VC	1104	S19A	1104	S106F2	1067
RT8863	2016	RVD1K110	1123	S-05-01	1104	S1M2	1141	S2VC10	1114	S20	1114	S106Q	1067
RT8895	2023	RVD1N34A	1123	S-05-02	1104	S1QB10	1171	S2VC10R	1114	S20K130	568	S106Y	1067
RT61012	1123	RVD1N4739	562	S-05-04	1104	S1QB40	1173	S2Z20	1143	S20ND400	1104	S106Y1	1067
RTC0103	1067	RVD1SS54	1122	S-05-06	1104	S1QB40Z	1173	S2Z40	1144	S20NH400	1104	S106Y2	1067
RTJ0103	1067	RVD2-1K110	1123	S-05-08	1114	S1R12B	563	S3A05	1141	S21	1104	S107	1104
RTJ0106	1067	RVD2DP	1104	S-05-10	1114	S1R13B	563	S3A06	1104	S22	1104	S107-0S	1067
RTJ0110	1067	RVD2DP22/1B	1104	S010G	1114	S1R20	1122	S3A025	1141	S22A	1104	S107-1	1067
RTJ0120	1067	RVD2DP22/1C	1171	S031A	1617	S1R60	1104	S3A1	1143	S23	1104	S107-2	1067
RTJ0130	1020	RVD2DP22/18	1104	S037	1617	S1RB	1171	S3A2	1143	S23A	1104	S107-4	1020
RTJ0140	1020	RVD2DP221B	1171	S042P	2035	S1RB-10	1171	S3A3	1144	S24	1114	S107A1	1067
RTJ0201	1067	RVD2DP221P	1104	S074-007-001	1122	S1RB10	1171	S3A4	1144	S26	1104	S107A2	1067
RTJ0203	1067	RVD2P22/1B	1104	S0300KS2	1067	S1RB40	1173	S3AR1	1104	S28	1114	S107B2	1067
RTJ0206	1067	RVD4B265J2	1104	S0303MS2	1067	S1RB40Z	1173	S3BA05	1141	S30	1104	S107C1	1020
RTJ0210	1067	RVD8MB4	1171	S0303MS3	1067	S1RBA	1171	S3CN1	1144	S31	1104	S107C2	1020
RTJ0215	1020	RVD8MBA	1104	S0303RS2	1067	S1RBA10	1173	S3G4	1114	S32	1104	S107D1	1020
RTJ0220	1067	RVD10D1	1104	S0303RS3	1067	S1RBA20	1173	S3G10	1143	S33	1104	S107D2	1020
RTJ0225	1020	RVD10DC1	1104	S0304F1	1067	S1RBA20Z	1173	S3G20	1143	S34	1122	S107F1	1067
RTJ0230	1020	RVD10DC1R	1104	S-0S01	1104	S1RBA40	1173	S3G40	1144	S35	1104	S107F2	1067
RU-1	1104	RVD10E1	1104	S0501	1104	S1RBA40Z	1173	S3G40Z	1144	S36	1104	S107Y1	1067
RU1	1104	RVD10E1LF	1104	S0501L	1104	S1RC20	1104	S3GR2	1144	S40	1104	S107Y2	1067
RU-1A	1104	RVD10E11F	1104	S0503LS3	1114	S1RC20R	1104	S3M1	1143	S40A	1104	S108	1104
RU1A	1104	RVD12B-1	1171	S0503M	1067	S1S2	1122	S3MX	1104	S43	1104	S115	1104
RU-1AV	1104	RVDC08P1	1104	S0503MS2	1067	S1S3H	1104	S3V-10	1114	S44	1104	S129	1104
RU-1V	1104	RVDCD0033	561	S0503MS3	1067	S1S4M	1104	S3V10	1114	S46	1104	S130-138	2016
RU1Z	1104	RVDD124B	1171	S0503RS2	1067	S1S11	1123	S3V20	1114	S47	1104	S130-251	2016
RU-2	1104	RVDD124S	1171	S0503RS3	1067	S1S20	1123	S3V40	1114	S48	1104	S133-1	1617
RU2	1104	RVDDS-410	1104	S0504F1	1067	S1SD-1	1104	S3V60	1114	S49	1104	S160	1122
RU2AM	1104	RVDEQA0106S	561	S0515G	1067	S1SD-1HF	1104	S3VC10	1114 N2	S61	1114	S169N	1617
RU2AN	1104	RVDGP05A	1104	S0515H	1067	S1SD-1X	1104	S3VC10R	1114 N1	S62	1114	S191G	1104
RU2B	1104	RVDKB162C5	1104	S0702	562	S1SM-150-01	1104	S3VC20	1114 N2	S63	1114	S200	1104
RU-2M	1104	RVDKB265J2	1122	S0704	1617	S1SM-150-02	1104	S3VC20R	1114 N1	S72	1104	S201	1104
RU2M	1104	RVDMZ206	561	S1	1104	S1VB-10	1171	S3VC40	1114 N2	S73	1104	S202	1104
RU-2V	1104	RVDMZ209	562	S1-1	1104	S1VB10	1171	S3VC40R	1114 N1	S75	1104	S203	1104
RU2Z	1104	RVDO.8C2211A	1144	S1-RECT-35	1122	S1VB10S	1171	S4A06	1104	S77	1104	S204	1104
RU3	1104	RVDR5R6EB	561	S1-RECT-102	1104	S1VB40	1173	S4AO6	1104	S79	1104	S205	1104
RU3A	1104	RVDR154B	1171	S1A	1104	S1VB40Z	1173	S4AR1	1104	S81	1104	S208	1114
RU3AM	1104	RVDRD5A1E	565	S1A06	1104	S1Y	1067	S4AR2	1104	S82	1104	S217	1104
RU3AN	1104	RVDRD5R1EB	565	S1A060	1104	S1.5	1104	S4AR30	1104	S83	1104	S218	1104
RU-3B	1104	RVDRDSR1EBB1	565	S1A6F	1104	S-1.5-0	1104	S4C	1104	S84	1104	S219	1104
RU3B	1104	RVDS5277B	1104	S1A60	1104	S1.5-01	1104	S4CN1	1143	S85	1104	S220	1104
RU-3M	1104	RVDSD-1U	1104	S1A80	1114	S-1.5-02	1104	S4FN300	1104	S86	1104	S221	1104
RU3M	1104	RVDSD-1Y	1104	S1A100	1114	S-1.5-04	1104	S4GR2	1143	S91	1104	S222	1104
RUD2DP22/1B	1104	RVDSG-5N	1114	S1AR1	1104	S-1.5-06	1104	S4M1	1144	S91-A	1104	S223	1104
RV06	1104	RVDSG-5P	1114	S1AR2	1104	S-1.5-08	1114	S5AR1	1104	S91-H	1104	S224	1104
RV1	1104	RVDSMIA02TPA	1104	S1B	1104	S-1.5-10	1114	S5AR2	1104	S91A	1141	S227(JAPAN)	1122 N3
RV2	1104	RVDSR3AM2N	1104	S1B01	1104	S-2	1104	S5CN1	1144	S91B	1143	S229	1143
RV6.2	561	RVDVD1250M	1122	S1B01-01	1104	S2A06	1104	S5M1	1144	S91H	1104	S230	1104
RV555NB	1723	RVS2SC645	2016	S1B-01-02	1104	S2A10	1104	S5S	1104	S92	1104	S232	1104
RV556DB	1728	RVTCS1381	1617	S1B01-02	1104	S2A20	1143	S5SR	1104	S92-A	1104	S233	1104
RV741NB	007	RVTCS1382	2023	S1B01-0226	1104	S2A30	1144	S6-3	1171	S92-H	1104	S234	1104
RV1017	1122	RVTCS1383	1617	S1B02	1104	S2A40	1144	S6AR1	1104	S92A	1141	S235	1104
RV1059	2023	RVTCS1384	2016	S1B02-0	1104	S2AO6	1141	S6AR2	1104	S92H	1104	S236	1143
RV1068	2016	RVTCS1473	2016	S1B02-03C	1114	S2AR1	1104	S7-8	1122	S93	1104	S238	1104
RV1189	1102	RVTMC00921-3	1101	S1B02-06CE	1104	S2AR2	1104	S7AR1	1114	S93A	1104	S239	1104
RV1226	1122	RVTMK10-2	2035	S1B02-06CRE	1104	S2C30	1104	S8-06	1114	S93H	1104	S240	1104
RV1395	2009	RVTMK10-E	2035	S1B02-C	1104	S2C40	1104	S8-10	1114	S93SE133	2041	S241	1104
RV1424	1104	RVTS22410	1617	S1B02-CR	1104	S2C40A	1104	S8AR1	1114	S93SE165	2041	S243	1104
RV1467	2016	RVTS22411	2023	S1B02-O	1104	S2CN1	1143	S8AR2	1114	S94	1104	S250	1104
RV1468	2016	RX090	562	S1B0101CR	1104	S2E20	1104	S9AR1	1114	S95	1104	S251	1104
RV1469	2016	RX-DX0131CEZZ	1104	S1B0102	1104	S2E60	1104	S10	1104	S-99(,1SS55)	1122	S252	1104
RV1470	2016	RY23	1102	S1B0201B	1171	S2E60-1	1104	S10A	1104	S100	1114	S253	1104
RV1471	2009	RY24	1103	S1B0201CR	1104	S2E100	1114	S10AR1	1114	S101	1104	S254	1104
RV1473	2030	RZ-3	1114	S1B-0306	1114	S2F10	1104	S10AR2	1114	S102	1104	S255	1104
RV1474	2009	RZ4.7	565	S1B1	1104	S2F20	1104	S10K130	570	S-102V	1104	S256	1104
RV1476	1144	RZ5.1	565	S1BD1-02	1104	S2GR2	1143	S11	1122	S103	1104	S257	1114
RV1478	1104	RZ6.2	561	S1C	1114	S2K20	1104	S-12	1143	S104	1104	S258	1114

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S260	1114	S1212N	2035	S1533	1617	S2123	1617	S4003	1104	S29956	2016	SA413	2023
S262	1104	S1213N	2035	S1559	1617	S2124	1617	S4003M	1020	S31551	2023	SA414	2023
S298	1122	S1214N	2035	S1568	1617	S2128	2023	S4003MS2	1020	S31866	2009	SA415	2023
S305	2041	S1215N	2035	S1570	1617	S2129	2023	S4003MS3	1020	S32417	2016	SA416	2023
S305A	2041	S1216N	2035	S1600	1104	S2131	2016	S4003RS2	1020	S32669	2016	SA429A	2023
S321	1122	S1220	1143	S1619	1617	S2132	2016	S4003RS3	1020	S33529	2027	SA429B	2023
S322	1122	S1221	1617	S1620	1617	S2133	2016	S4004F1	1020	S33530	2020	SA429C	2023
S324	1122	S1221A	1617	S1629	1617	S2134	2016	S4249	2023	S33755	2009	SA429D	2023
S325	1122	S1221N	2035	S1636	2016	S2159	2016	S5014(HEP)	2030	S33990	2016	SA429E	2023
S334	1122	S1222N	2035	S1642	2030	S2171	1617	S5020	2016	S34540	1617	SA429F	2023
S337	1122	S1223N	2035	S1644	2030	S2172	1617	S5021	2016	S35232	2016	SA429G	2023
S353	2041	S1224N	2035	S1671	2030	S2209	2030	S5089-A	1104	S35233	2016	SA429L	2023
S398	1122	S1225N	2035	S1674	2016	S2224	2016	S5177B	1104	S36951	2009	SA429M	2023
S400	1122	S1226	1617	S1674A	2016	S2225	1617	S5230	565	S37162	2020	SA429R	2023
S401	1122	S1226N	2035	S1682	2016	S2241	2041	S5230A	565	S37165	2027	SA429T	2023
S402	1122	S1227	2016	S1683	2030	S2369	2030	S5230B	565	S37166	2020	SA429X	2023
S403	1122	S1230	1144	S1685	2041	S2371	2030	S-5277B	1104	S37182	2009	SA429Y	2023
S409F	2030	S1231N	2035	S1689	2030	S2392	2041	S5277B	1104	S37214	2009	SA465A	2023
S428	1104	S1232N	2035	S1691	2041	S2397	1617	S5277D	1102	S37423	2009	SA465B	2023
S431	1104	S1233N	2035	S1692	2041	S2400	2030	S5277G	1103	S38763	2009	SA465C	2023
S-500	1114	S1234N	2035	S1697	1617	S2400A	2030	S5277J	1104	S38787	2009	SA465D	2023
S500	1122	S1235N	2035	S1761	1617	S2400B	2030	S5277L	1114	S38789	1617	SA465E	2023
S-500B	1104	S1236N	2035	S1761A	1617	S2401	2030	S5277N	1114	S38854	2009	SA465F	2023
S500B	1144	S1240	1144	S1761B	1617	S2401A	2030	S5295	1122	S39094	2023	SA465G	2023
S-500C	1104	S1241	1617	S1761C	1617	S2401B	2030	S5295B	1104	S39261	2027	SA465L	2023
S500C	1144	S1242	1617	S1762	2030	S2401C	2030	S5295D	1104	S39262	2020	SA465M	2023
S501	1122	S1243	1617	S1764	1617	S2402	2030	S5295G	1104	S40204	2016	SA465R	2023
S502	1122	S1245	1617	S1765	1617	S2402A	2030	S5295I	1104	S95125	2016	SA465T	2023
S504	1122	S1272	1617	S1766	1617	S2402B	2030	S5295J	1104	S95125A	2016	SA465X	2023
S505	1122	S-1276	2016	S1768	1617	S2402C	2030	S5327E	2016	S95126	2016	SA465Y	2023
S506	1122	S1276	2016	S1770	1617	S2403B	2041	S5328E	2016	S95126A	2016	SA467A	2023
S507	1122	S1286	2016	S1772	1617	S2403C	2041	S5500-D	1104	S95202	1617	SA467B	2023
S508	1122	S-1296	2016	S1773	2030	S2427	2030	S5500B	1104	S326690	2016	SA467C	2023
S509	1122	S1296	2016	S1777	2030	S2438	2058	S5500D	1104	S1977634	2041	SA467D	2023
S518T	2055	S1307	1617	S1784	1617	S2471	2041	S5500G	1103	SA1M1	1143	SA467E	2023
S520	2023	S1308	2016	S1785	1617	S2487	2030	S5566B	1104	SA-2	1114	SA467F	2023
S630T	2055	S1309	1617	S1788	2009	S2525	2023	S5566G	1103	SA2	1104	SA467L	2023
S715	2017	S-1313	2016	S1801-02	1104	S2526	2030	S5566J	1104	SA-2A	1114	SA467M	2023
S750	1114	S1313	2016	S1835	1617	S2581	1617	S5566N	1114	SA-2B	1114	SA467R	2023
S750C	1114	S-1316	2016	S1864	2030	S2582	1617	S5670E	2016	SA2B	1104	SA480A	2023
S-798	1104	S1316	2016	S1865	2041	S2590	1617	S6004F1	1020	SA-2C	1114	SA480B	2023
S801	2017	S1317	2016	S1871	1617	S2593	1617	S6005	1104	SA2H	1114	SA480C	2023
S-810	1104	S-1318	2016	S1874	2030	S-2617	2016	S6142	1020	SA2M1	1143	SA480D	2023
S855	1101	S1318	2016	S1878	2009	S2617	2016	S6142C	1020	SA-2Z	1114	SA480E	2023
S1000-1	1114	S1331	1617	S1889	2023	S2617(UHF)	2016	S6142G	1020	SA2Z	1114	SA480F	2023
S1003M	1067	S1331N	1617	S1891	1617	S2635	1617	S6340G	1020	SA3B	1104	SA480G	2023
S1003MS2	1067	S1331W	1617	S1891A	1617	S2636	1617	S6344G	1020	SA3M1	1144	SA480L	2023
S1003MS3	1067	S1350	2023	S1891B	1617	S2645	2023	S6801	1617	SA50	2023	SA480M	2023
S1003RS2	1067	S1360	2016	S1897	2016	S2648	2030	S6804	2030	SA51	2023	SA480R	2023
S1003RS3	1067	S1361	2016	S1905	2041	S2716	2058	S7004	2041	SA51A	2023	SA480T	2023
S1004F1	1067	S1362	2016	S1905A	2041	S2718	2058	S7006(HEP)	2027	SA52	2023	SA480X	2023
S1006RS2	1067	S1363	1617	S1907	2041	S2719	2016	S7502	1020	SA52A	2023	SA480Y	2023
S1006RS3	1067	S1364	1617	S1955	1617	S2741	2041	S7503	1020	SA52B	2023	SA482A	2023
S1009	2016	S1367	2023	S1993	1617	S2794	2030	S9631	2009	SA53	2023	SA482B	2023
S1010	1143	S1368	2030	S2000KS2	1067	S2935	1617	S10149	1104	SA54	2023	SA482C	2023
S1016	1617	S1369	1617	S2002	2016	S2944	1617	S15649	1617	SA54A	2023	SA482D	2023
S-1019	2016	S1373	1617	S2003-1	2041	S2984	1617	S15650	2016	SA55	2023	SA482E	2023
S1019	2016	S1374	1617	S2003MS2	1067	S2985	1617	S15657	2016	SA56	2023	SA482F	2023
S-1019(UHF)	2016	S1384	1123	S2003MS3	1067	S2988	2023	S15658	2016	SA70	2023	SA482G	2023
S1020	1143	S1403	1617	S2003RS2	1067	S2989	1617	S15659	2016	SA78HV05CU	1770	SA482L	2023
S1030	1144	S1405	1617	S2003RS3	1067	S2992	2030	S15660	2030	SA78HV12CU	1771	SA482M	2023
S1037	2016	S1408	2016	S2004F1	1067	S2996	1617	S17900	2030	SA95A	2023	SA482R	2023
S1040	1144	S1409	2016	S2034	1617	S2997	1617	S18000	2030	SA95B	2023	SA482T	2023
S1041	2016	S1419	1617	S2038	2016	S2998	1617	S18100	2023	SA95C	2023	SA482X	2023
S1041-16GN	2016	S1420	1617	S2041	2027	S2999	1617	S18200	2030	SA95D	2023	SA482Y	2023
S1044	2016	S1421	2030	S2042	2020	S3004	2023	S19386	2030	SA95E	2023	SA493A	2023
S1058	2016	S1428	1122	S2043	1617	S3004(HEP)	2023	S21271	1123	SA95F	2023	SA493B	2023
S1059	2016	S1429-3	1617	S2044	1617	S3004-1715	561	S21549	2030	SA95G	2023	SA493C	2023
S1061	1617	S1432	1617	S2060A	1067	S3004-1716	1122	S21639	562	SA95L	2023	SA493D	2023
S1062	2016	S1443	1617	S2060B	1067	S3004-1718	561	S21648	2016	SA95M	2023	SA493E	2023
S1065	1617	S1453	1617	S2060C	1020	S3019	2016	S22543	1617	SA95R	2023	SA493F	2023
S1066	1617	S1475	2009	S2060D	1020	S3020	2016	S23130	2023	SA95T	2023	SA493G	2023
S1068	1617	S1476	1617	S2061A	1067	S3030G	1123	S23579	2009	SA95X	2023	SA493L	2023
S1069	1617	S1477	2023	S2061B	1067	S3042	2030	S24226	2023	SA95Y	2023	SA493M	2023
S1074(R)	1617	S1487	1617	S2061C	1020	S3060(HEP)	2020	S24591	1617	SA282	1122	SA493R	2023
S1074(X)	1067	S1502	1617	S2061D	1020	S3061(HEP)	2020	S24592	2016	SA283	1122	SA493T	2023
S1076	2016	S1510	1617	S2062A	1067	S3072C	1122	S24596	1617	SA310	2023	SA493X	2023
S1078	2016	S1512	1617	S2062B	1067	S3372G	1123	S24598	2030	SA311	2023	SA493Y	2023
S1079	2016	S1514	2030	S2062C	1020	S3603G	1123	S24614	2030	SA312	2023	SA494A	2023
S1122	2016	S1516	2030	S2062D	1020	S3639	2023	S24616	2030	SA313	2023	SA494B	2023
S1126	2016	S1517	2030	S2062F	1067	S3655	2023	S25261	2016	SA313A	2023	SA494C	2023
S1128	1617	S1523	2030	S2062Y	1067	S3771	2041	S25805	2016	SA314	2023	SA494D	2023
S1142	2016	S1525	2030	S2085	1123	S3838GA	1123	S25941	2016	SA315	2023	SA494E	2023
S1143	1617	S1526	1617	S2091	2023	S3961G	1123	S26822	2009	SA316	2023	SA494F	2023
S1153	2016	S1527	1617	S2118	2030	S4000KS2	1020	S27233	2030	SA410	2023	SA494G	2023
S1210	1143	S1529	1617	S2121	1617	S4001	1104	S27604	2016	SA411	2023	SA494L	2023
S1211N	2035	S1530	1617	S2122	1617	S4002	2016	S27893	2058	SA412	2023	SA494M	2023

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SA494R	2023	SA522F	2023	SA551B	2023	SA569T	2023	SA639M	2023	SA663F	2043	SA707C	2023
SA494T	2023	SA522G	2023	SA551C	2023	SA569X	2023	SA639R	2023	SA663G	2043	SA707D	2023
SA494X	2023	SA522L	2023	SA551D	2023	SA569Y	2023	SA639T	2023	SA663L	2043	SA707E	2023
SA494Y	2023	SA522M	2023	SA551E	2023	SA570A	2023	SA641A	2023	SA663M	2043	SA707F	2023
SA495A	2023	SA522R	2023	SA551F	2023	SA570B	2023	SA641B	2023	SA663R	2043	SA707G	2023
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SA495D	2023	SA522Y	2023	SA551M	2023	SA570E	2023	SA641E	2023	SA663Y	2043	SA707R	2023
SA495E	2023	SA525A	2023	SA551R	2023	SA570F	2023	SA641F	2023	SA666A	2023	SA707T	2023
SA495F	2023	SA525B	2023	SA551T	2023	SA570G	2023	SA641G	2023	SA666B	2023	SA707X	2023
SA495G	2023	SA525C	2023	SA551X	2023	SA570L	2023	SA641L	2023	SA666C	2023	SA707Y	2023
SA495L	2023	SA525D	2023	SA551Y	2023	SA570M	2023	SA641M	2023	SA666D	2023	SA720A	2023
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SA495R	2023	SA525F	2023	SA561B	2023	SA570T	2023	SA641T	2023	SA666F	2023	SA720C	2023
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SA495X	2023	SA525L	2023	SA561D	2023	SA570Y	2023	SA641Y	2023	SA666L	2023	SA720E	2023
SA495Y	2023	SA525M	2023	SA561E	2023	SA592A	2023	SA643A	1114	SA666M	2023	SA720F	2023
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SA499B	2023	SA525T	2023	SA561G	2023	SA592C	2023	SA643C	1114	SA666T	2023	SA720L	2023
SA499C	2023	SA525X	2023	SA561L	2023	SA592D	2023	SA643D	1114	SA666X	2023	SA720M	2023
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SA499E	2023	SA530A	2023	SA561R	2023	SA592F	2023	SA643F	1114	SA672A	2023	SA720T	2023
SA499F	2023	SA530B	2023	SA561T	2023	SA592G	2023	SA643G	1114	SA672B	2023	SA720X	2023
SA499G	2023	SA530C	2023	SA561X	2023	SA592L	2023	SA643L	1114	SA672C	2023	SA720Y	2023
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SA499X	2023	SA530L	2023	SA562D	2023	SA592Y	2023	SA643Y	1114	SA672L	2023	SA721E	2023
SA499Y	2023	SA530M	2023	SA562E	2023	SA608A	2023	SA649	2043	SA672M	2023	SA721F	2023
SA500A	2023	SA530R	2023	SA562F	2023	SA608B	2023	SA657A	2043	SA672R	2023	SA721G	2023
SA500B	2023	SA530T	2023	SA562G	2023	SA608C	2023	SA657B	2043	SA672T	2023	SA721L	2023
SA500C	2023	SA530X	2023	SA562L	2023	SA608D	2023	SA657C	2043	SA672X	2023	SA721M	2023
SA500D	2023	SA530Y	2023	SA562M	2023	SA608E	2023	SA657D	2043	SA672Y	2023	SA721R	2023
SA500E	2023	SA539A	2023	SA562R	2023	SA608F	2023	SA657E	2043	SA673A	2023	SA721T	2023
SA500F	2023	SA539B	2023	SA562T	2023	SA608G	2023	SA657F	2043	SA673B	2023	SA721X	2023
SA500G	2023	SA539C	2023	SA562X	2023	SA608L	2023	SA657G	2043	SA673C	2023	SA721Y	2023
SA500L	2023	SA539D	2023	SA562Y	2023	SA608M	2023	SA657L	2043	SA673D	2023	SA723CN	1740
SA500M	2023	SA539E	2023	SA564A	2023	SA608R	2023	SA657M	2043	SA673E	2023	SA741A	2023
SA500R	2023	SA539F	2023	SA564B	2023	SA608T	2023	SA657R	2043	SA673F	2023	SA741B	2023
SA500T	2023	SA539G	2023	SA564C	2023	SA608X	2023	SA657T	2043	SA673G	2023	SA741C	2023
SA500X	2023	SA539L	2023	SA564D	2023	SA608Y	2023	SA657X	2043	SA673L	2023	SA741D	2023
SA500Y	2023	SA539M	2023	SA564E	2023	SA609A	2023	SA657Y	2043	SA673R	2023	SA741E	2023
SA509A	2023	SA539R	2023	SA564F	2023	SA609B	2023	SA658A	2043	SA673T	2023	SA741F	2023
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SA509C	2023	SA539X	2023	SA564L	2023	SA609D	2023	SA658C	2043	SA673Y	2023	SA741L	2023
SA509D	2023	SA539Y	2023	SA564M	2023	SA609E	2023	SA658D	2043	SA680A	2043	SA741M	2023
SA509E	2023	SA542A	2023	SA564R	2023	SA609F	2023	SA658E	2043	SA680B	2043	SA741R	2023
SA509F	2023	SA542B	2023	SA564T	2023	SA609G	2023	SA658F	2043	SA680C	2043	SA741T	2023
SA509G	2023	SA542C	2023	SA564X	2023	SA609L	2023	SA658G	2043	SA680D	2043	SA741X	2023
SA509L	2023	SA542D	2023	SA564Y	2023	SA609M	2023	SA658L	2043	SA680E	2043	SA741Y	2023
SA509M	2023	SA542E	2023	SA565A	2023	SA609R	2023	SA658M	2043	SA680F	2043	SA756A	2043
SA509R	2023	SA542F	2023	SA565B	2023	SA609T	2023	SA658R	2043	SA680G	2043	SA756B	2043
SA509T	2023	SA542G	2023	SA565C	2023	SA609X	2023	SA658T	2043	SA680L	2043	SA756C	2043
SA509X	2023	SA542L	2023	SA565D	2023	SA609Y	2023	SA658X	2043	SA680M	2043	SA756D	2043
SA509Y	2023	SA542M	2023	SA565E	2023	SA628A	2023	SA658Y	2043	SA680R	2043	SA756E	2043
SA511A	2023	SA542R	2023	SA565F	2023	SA628B	2023	SA659A	2023	SA680T	2043	SA756F	2043
SA511B	2023	SA542T	2023	SA565G	2023	SA628C	2023	SA659B	2023	SA680X	2043	SA756G	2043
SA511C	2023	SA542X	2023	SA565L	2023	SA628D	2023	SA659C	2023	SA680Y	2043	SA756L	2043
SA511D	2023	SA542Y	2023	SA565M	2023	SA628E	2023	SA659D	2023	SA685A	2023	SA756M	2043
SA511E	2023	SA544A	2023	SA565R	2023	SA628F	2023	SA659E	2023	SA685B	2023	SA756R	2043
SA511F	2023	SA544B	2023	SA565T	2023	SA628G	2023	SA659F	2023	SA685C	2023	SA756T	2043
SA511G	2023	SA544C	2023	SA565X	2023	SA628L	2023	SA659G	2023	SA685D	2023	SA756X	2043
SA511L	2023	SA544D	2023	SA565Y	2023	SA628M	2023	SA659L	2023	SA685E	2023	SA756Y	2043
SA511M	2023	SA544E	2023	SA567A	2023	SA628R	2023	SA659M	2023	SA685F	2023	SA773A	2023
SA511R	2023	SA544F	2023	SA567B	2023	SA628T	2023	SA659R	2023	SA685G	2023	SA773B	2023
SA511T	2023	SA544G	2023	SA567C	2023	SA628X	2023	SA659T	2023	SA685L	2023	SA773C	2023
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SA511Y	2023	SA544M	2023	SA567E	2023	SA629A	2023	SA659Y	2023	SA685R	2023	SA773E	2023
SA513A	2023	SA544R	2023	SA567F	2023	SA629B	2023	SA661A	2023	SA685T	2023	SA773F	2023
SA513B	2023	SA544T	2023	SA567G	2023	SA629C	2023	SA661B	2023	SA685X	2023	SA773G	2023
SA513C	2023	SA544X	2023	SA567L	2023	SA629D	2023	SA661C	2023	SA685Y	2023	SA773L	2023
SA513D	2023	SA544Y	2023	SA567M	2023	SA629E	2023	SA661D	2023	SA697A	2023	SA773M	2023
SA513E	2023	SA545A	2023	SA567R	2023	SA629F	2023	SA661E	2023	SA697B	2023	SA773R	2023
SA513F	2023	SA545B	2023	SA567T	2023	SA629G	2023	SA661F	2023	SA697C	2023	SA773T	2023
SA513G	2023	SA545C	2023	SA567X	2023	SA629L	2023	SA661G	2023	SA697D	2023	SA773X	2023
SA513L	2023	SA545D	2023	SA567Y	2023	SA629M	2023	SA661L	2023	SA697E	2023	SA773Y	2023
SA513M	2023	SA545E	2023	SA569A	2023	SA629R	2023	SA661M	2023	SA697F	2023	SA778A	2023
SA513R	2023	SA545F	2023	SA569B	2023	SA629T	2023	SA661R	2023	SA697G	2023	SA778B	2023
SA513T	2023	SA545G	2023	SA569C	2023	SA639A	2023	SA661T	2023	SA697L	2023	SA778C	2023
SA513X	2023	SA545L	2023	SA569D	2023	SA639B	2023	SA661X	2023	SA697M	2023	SA778D	2023
SA513Y	2023	SA545M	2023	SA569E	2023	SA639C	2023	SA661Y	2023	SA697R	2023	SA778E	2023
SA522A	2023	SA545R	2023	SA569F	2023	SA639D	2023	SA663A	2043	SA697T	2023	SA778F	2023
SA522B	2023	SA545T	2023	SA569G	2023	SA639E	2023	SA663B	2043	SA697X	2023	SA778G	2023
SA522C	2023	SA545X	2023	SA569L	2023	SA639F	2023	SA663C	2043	SA697Y	2023	SA778L	2023
SA522D	2023	SA545Y	2023	SA569M	2023	SA639G	2023	SA663D	2043	SA707A	2023	SA778M	2023
SA522E	2023	SA551A	2023	SA569R	2023	SA639L	2023	SA663E	2043	SA707B	2023	SA778R	2023

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SA778T	2023	SB-3	1104	SC146B	1000	SCBR1F	1114	SD-1-211B	1104	SD-43	1122	SD632(10)	562
SA778Y	2023	SB-3-02	1104	SC146B1	1000	SCBR6	1114	SD1-211B	1104	SD43	1122	SD701-02	1122
SA821	561	SB-3F	1114	SC146B2	1000	SCBR6F	1114	SD-1-211C	1104	SD45	1104	SD800	1114
SA821A	561	SB-3F01	1104	SC146B3	1000	SCBR35F	1114	SD1-Z	1104	SD-46	1123	SD910	1114
SA823	561	SB-3N	1104	SC146B4	1000	SCE1	1104	SD-1A	1104	SD46	1123	SD910A	1114
SA823A	561	SB120	1101	SC146B5	1000	SCE2	1104	SD1A	1104	SD46(4)	1123	SD910S	1114
SA825	561	SB130	1101	SC146B6	1000	SCE3	1104	SD-1AHF	1101	SD-46-2	1123	SD950	1104
SA825A	561	SB140	1101	SC147	2009	SCE4	1104	SD-1AUF	1122	SD46-2	1123	SD974	1122
SA827	561	SB150	1101	SC147A	2016	SCE6	1104	SD-1B	1104	SD46R	1123	SD1023	2017
SA827A	561	SB160	1104	SC147B	2016	SCE8	1114	SD1B	1114	SD50	1101	SD1101	1104
SA829	561	SB170	1104	SC148	2016	SCE10	1114	SD1C	1114	SD53	563	SD1102	1104
SA829A	561	SB180	1104	SC148A	2016	SCL4001	2401	SD-1C-4F	1104	SD54	1123	SD1103	1104
SA836A	2023	SB302	1104	SC148B	2016	SCL4001B	2401	SD-1C-UF	1104	SD-56	1123	SD1335	2020
SA836B	2023	SB-309A	1104	SC148C	2016	SCL4001BC	2401	SD-1CUF	1104	SD56	1123	SD1345	2020
SA836C	2023	SB309A	1171	SC149	2016	SCL4001BD	2401	SD1CUF	1104	SD-60	1123	SD1445	2027
SA836D	2023	SB-309C	1104	SC149B	2016	SCL4001BE	2401	SD1DM-4	1104	SD60	1123	SD11441	2016
SA836E	2023	SB309C	1171	SC149C	2009	SCL4001BF	2401	SD-1HF	1104	SD-60P	1104	SDA345	2020
SA836F	2023	SB315	1104	SC157V1	2023	SCL4001UBD	2401	SD1HF	1104	SD60P	1101	SDA445	2027
SA836G	2023	SB320	1114	SC158B	2023	SCL4001UBE	2401	SD-1L	1104	SD-61P	1104	SDB345	2020
SA836L	2023	SB330	1114	SC158V1	2023	SCL4001UBF	2401	SD1L	1104	SD61P	1103	SDB445	2027
SA836M	2023	SB332	1104	SC159B	2023	SCL4001UBH	2401	SD-1LA	1104	SD-80	1104	SD-BA244A	1122
SA836R	2023	SB333	1104	SC174	2009	SCL4009UBE	2449	SD1LA	1104	SD80	1104	SDD5	1101
SA836T	2023	SB340	1114	SC174A	2009	SCL4011	2411	SD-1N34A	1123	SD-91	1104	SDD6	1101
SA836X	2023	SB350	1114	SC174B	2009	SCL4011B	2411	SD-1N60	1123	SD91	1141	SDD420	2030
SA836Y	2023	SB360	1114	SC257V1	2023	SCL4011BC	2411	SD-1N60S	1123	SD-91A	1104	SDD421	1617
SA841A	2023	SB370	1114	SC258B	2023	SCL4011BD	2411	SD-1N4148	1122	SD91A	1143	SDD820	2016
SA841B	2023	SB380	1114	SC258V1	2023	SCL4011BE	2411	SD1P60XXXXFXT	1123	SD-91S	1104	SDD821	1617
SA841C	2023	SB393	1104	SC259B	2023	SCL4011BF	2411	SD-1S1555	1122	SD91S	1143	SDD1220	2030
SA841D	2023	SB821	561	SC305	1104	SCL4011BH	2411	SD-1S2076	1122	SD-92	1104	SDD3000	1617
SA841E	2023	SB821A	561	SC350	1617	SCL4011UBC	2411	SD-1U	1104	SD92	1143	SDDS442XXXXXX	1122
SA841F	2023	SB823	561	SC785	1617	SCL4011UBD	2411	SD-1UF	1104	SD-92A	1104	SDDSF10XCXXXXT	1102
SA841G	2023	SB823A	561	SC786	2016	SCL4011UBE	2411	SD-1X	1104	SD92A	1143	SD-ERB24-04D	1104
SA841L	2023	SB825	561	SC821	561	SCL4011UBF	2411	SD1X	1104	SD-92S	1104	SDGMA01XXXXXT	1122
SA841M	2023	SB825A	561	SC821A	561	SCL4011UBH	2411	SD-1Y	1104	SD92S	1143	SDGZA062YXXXX	561
SA841R	2023	SB827	561	SC823	561	SCL4013	2413	SD1Y	1104	SD-93	1104	SDH-2	1123
SA841T	2023	SB827A	561	SC823A	561	SCL4013AC	2413	SD-1Z	1104	SD93	1144	SDI345	2020
SA841X	2023	SB829	561	SC825	561	SCL4013AD	2413	SD1Z	1104	SD-93A	1104	SDI445	2027
SA841Y	2023	SB829A	561	SC825A	561	SCL4013AE	2413	SD-1ZHF	1104	SD93A	1144	SD-IN4148	1122
SA842A	2023	SB1000	1104	SC827	561	SCL4013AF	2413	SD1ZHF	1104	SD93S	1104	SDJ345	2020
SA842B	2023	SBEB05	1171	SC827A	561	SCL4013AH	2413	SD-2	1104	SD-94	1104	SDJ445	2027
SA842C	2023	SBR05	1171	SC829	561	SCL4013BC	2413	SD2	1114	SD94	1144	SDK345	2020
SA842D	2023	SBR-260	1104	SC829A	561	SCL4013BD	2413	SD2A	1104	SD-94A	1104	SDK445	2027
SA842E	2023	SC05	1104	SC832	1617	SCL4013BE	2413	SD2B	1104	SD94A	1144	SDL345	2020
SA842F	2023	SC05E	1104	SC842	1617	SCL4013BF	2413	SD2C	1114	SD-94AB	1104	SDL445	2027
SA842G	2023	SC1	1104	SC1001	1617	SCL4013BH	2413	SD-2N5062	1067	SD94AB	1104	SDM345	2020
SA842L	2023	SC2	1104	SC1010	1617	SCL4013BP	2413	SD4	1104	SD94B	1104	SDM445	2027
SA842M	2023	SC2C	1104	SC1168G	1617	SCL4017	2417	SD-5	1122	SD94S	1104	SDN201	2068
SA842R	2023	SC-4	1104	SC1168H	1617	SCL4017ABC	2417	SD5	1104	SD-95	1104	SDN345	2020
SA842T	2023	SC4	1104	SC1227F	2016	SCL4017ABD	2417	SD5(DUAL)	1101	SD95	1104	SDN445	2027
SA842X	2023	SC-6	1123	SC1227G	2016	SCL4017ABE	2417	SD-5(PHILCO)	1122	SD-95A	1104	SDO345	2020
SA842Y	2023	SC-7	1020	SC1229E	2030	SCL4017ABF	2417	SD-6	565	SD95A	1104	SDP34S	2020
SA909A	2023	SC-7(PHILCO)	1020	SC1229G	1617	SCL4017ABH	2417	SD6	1104	SD96	1104	SDR3A	1114
SA909B	2023	SC8	1114	SC4001BH	2401	SCL4017AC	2417	SD6(DUAL)	1143	SD96A	1104	SDR-25	1104
SA909C	2023	SC8A	1114	SC4001UBC	2401	SCL4017AD	2417	SD-7	1122	SD96S	1104	SDR25	1104
SA909D	2023	SC10	1114	SC4010	1617	SCL4017AE	2417	SD7	1122	SD98	1114	SDR3001	1114
SA909E	2023	SC10A	1114	SC4044	1617	SCL4017AF	2417	SD-7(PHILCO)	1122	SD98A	1114	SDR3002	1114
SA909F	2023	SC12(DIODE)	1122	SC4116	1104	SCL4017AH	2417	SD-8	562	SD98S	1114	SDS113	1104
SA909G	2023	SC-16	1104	SC4131	2030	SCL4017B	2417	SD8	1114	SD100	1122	SDS240	2016
SA909L	2023	SC16	1104	SC4131-1	2030	SCL4017BC	2417	SD-8(PHILCO)	562	SD-101	1104	SDT425	2055
SA909M	2023	SC29	1122	SC4135	2030	SCL4017BD	2417	SD10	1104	SD101	1122	SDT445	2027
SA909R	2023	SC54	1123	SC4167	2030	SCL4017BE	2417	SD11F	1123	SD102	1122	SDT1006	2055
SA909T	2023	SC6S	1617	SC4244	2030	SCL4017BF	2417	SD-12	1123	SD103	1122	SDT1007	2055
SA909X	2023	SC91	562	SC4303	2020	SCL4017BH	2417	SD12	1123	SD104	1104	SDT1016	2055
SA909Y	2023	SC107	2009	SC4303-1	2020	SCL4049	2449	SD12B	1123	SD105	1104	SDT1017	2055
SA7805CU	1770	SC107A	2009	SC4303-2	2020	SCL4449UBE	2449	SD12E	1123	SD-109	2009	SDT3326	2017
SA7812CU	1771	SC107B	2009	SC4308	2020	SCP5E	1104	SD12M	1123	SD109	2009	SDT3509	2027
SAB1044	2016	SC108	2009	SCA05	1104	SCR1S	1067	SD-13	1104	SD-110	1122	SDT3510	2027
SAB3469	2016	SC108A	2009	SCA1	1104	SCR104(ELCOM)	1067	SD13	1104	SD-150	1123	SDT3513	2027
SAC-1843	2016	SC108B	2009	SCA2	1104	SCR108	1067	SD-14	1123	SD160	1122	SDT3514	2027
SAW-1S1941	1104	SC108C	2009	SCA3	1104	SCR108(ELCOM)	1067	SD14	1123	SD165	1122	SDT3701	2027
SAW-1S1944	1114	SC109	2009	SCA4	1104	SCR200	1067	SD-15	562	SD-201	1104	SDT3702	2027
SAW-2SC372GR	2009	SC109A	2009	SCA5	1104	SCR218	1067	SD15	1123	SD201	1104	SDT3703	2027
SAW-2SC372Y	2009	SC109B	2009	SCA6	1104	SCR218(ELCOM)	1067	SD-16	1123	SD202	1104	SDT3704	2027
SAW-2SC945R	2009	SC110	1104	SCA8	1114	SCR404(ELCOM)	1020	SD16	1123	SD345	2020	SDT3706	2027
SB-01	1171	SC116D	1000	SCA10	1114	SCT1	1114	SD-16A	1104	SD445	2027	SDT3707	2027
SB01	1104	SC136B	1000	SCA1103	1104	SCT2	1114	SD-16D	1104	SD461	1123	SDT3708	2027
SB01-02	1122	SC136D	1000	SCA3022	2016	SCT3	1114	SD-18	1104	SD-470	1104	SDT3709	2027
SB-03	1104	SC141B	1000	SCA3235	2016	SCT4	1114	SD18	1104	SD470	1104	SDT3710	2027
SB-04	1173	SC141B1	1000	SCA3236	2016	SCTS	1114	SD-19	1171	SD500	1122	SDT3711	2027
SB0319	2020	SC141B2	1000	SCA3237	2016	SD05	1104	SD20	1104	SD500C	1104	SDT3712	2027
SB1-01-04	1104	SC141B3	1000	SCA3238	2016	SD-07	1104	SD21	1123	SD501	1104	SDT3713	2027
SB-1AHF	1103	SC141B4	1000	SCA3239	2016	SD07	1104	SD21A	1123	SD600	1122	SDT3715	2027
SB-1Z	1104	SC141B5	1000	SCA3240	2016	SD020	1123	SD23	1104	SD600C	1104	SDT3716	2027
SB1Z	1141	SC141B6	1000	SCA3243	2016	SD040	1104	SD-27	562	SD-630	1122	SDT3717	2027
SB-2(CENTERING-S8	1101	SC142B	1000	SCA3244	2016	SD0345	2020	SD33	563	SD630	1122	SDT3720	2027
		SC142D	1000	SCA3246	2016	SD1	1104	SD-34	1122	SD-632	562	SDT3721	2027
SB2CH	1114	SC143D	1000	SCBR05F	1114	SD1-1	1104	SD34	1123	SD632	562	SDT3722	2027

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SDT3725	2027	SE-05X	1104	SE5051	2016	SF4CN1	1114	SFT104	1123	SH302A	1122	SILC4001BXXXX	2401
SDT3726	2027	SE-0.5A	1144	SE5052	2016	SF5	1114	SFT108	1123	SH1064	1617	SIR20	1104
SDT3727	2027	SE-0.5B	1104	SE5055	2009	SF6	1114	SFT440	2030	SHA7530	2023	SIR60	1104
SDT3729	2027	SE-1.5A	1114	SE5056	2016	SF16D12	1067	SFT443	2030	SHA7531	2023	SIR-80	1104
SDT3730	2027	SE-2	1104	SE5151	1617	SF115	2058	SFT443A	2030	SHA7532	2023	SIR80	1104
SDT3733	2027	SE-5	1104	SE-6001	1617	SF115A	2058	SFT445	2030	SHA7533	2023	SIRB-10	1171
SDT4455	2017	SE5-0996	2035	SE6001	2030	SF115B	2058	SFT713	1617	SHA7534	2023	SIRB10	1114
SDT4483	2017	SE6(DUAL)	1101	SE-6002	1617	SF115C	2058	SFT714	1617	SHA7536	2023	SIRBA00	1173
SDT4551	2017	SE30B26A	1104	SE6002	2016	SF115D	2058	SFZ716	563	SHA7537	2023	SIRBA10	1173
SDT4553	2017	SE46	1104	SE6006	2030	SF115E	2058	SG-005	1104	SHA7538	2023	SI-REC-73	1104
SDT4583	2017	SE500G	2016	SE6010	1617	SF167	2016	SG005	1144	SHAD-1	1104	SI-RECT-044	1104
SDT4611	2017	SE504	2016	SE6020	1617	SF173	2016	SG-5N	1114	SI05	1141	SI-RECT-2	1104
SDT4612	2017	SE521	2016	SE6020A	2030	SF194	2016	SG-5P	1114	SI-05A	1114	SIRECT-2	1104
SDT4614	2017	SE555V	1723	SE6021	2030	SF194B	2016	SG-5T	1104	SI05A	1141	SI-RECT-20	1104
SDT4615	2017	SE1001	2016	SE6021A	2030	SF195	2016	SG-105	1104	SI1	1143	SI-RECT-25	1104
SDT5011	2017	SE1001-1	2058	SE6022	2030	SF195C	2016	SG105	1104	SI-1A	1114	SI-RECT-27	1104
SDT5102	2020	SE1001-2	2058	SE6023	2030	SF195D	2016	SG-20S	1104	SI1A	1143	SI-RECT-33	1104
SDT5112	2027	SE-1002	1617	SE7005	2030	SF196	2016	SG205	1143	SI1S554	1122	SI-RECT-34	1104
SDT5511	2017	SE1002	2016	SE7015	2030	SF197	2016	SG224J	1711	SI2	1143	SI-RECT-35	1122
SDT5901	2017	SE1002-1	2016	SE8001	2030	SF294	2016	SG224N	1711	SI-2A	1114	SIRECT-36	1104
SDT5902	2017	SE1002-2	2016	SE8002	2030	SF294B	2016	SG-305	1104	SI3	1144	SI-RECT-37	1104
SDT5906	2017	SE-1010	2016	SE8010	2030	SF295	2016	SG305	1144	SI-3A	1114	SI-RECT-39	1104
SDT5907	2020	SE1010	2016	SE8012	2030	SF295C	2016	SG323	1104	SI4	1144	SI-RECT-48	1104
SDT6001	2020	SE1019	2016	SE8040	1617	SF295D	2016	SG324N	1711	SI-4A	1114	SIRECT-48	1104
SDT6011	2020	SE1044	2016	SE8041	2030	SF310	2016	SG505	1104	SI-5A	1114	SI-RECT-49	1104
SDT6013	2020	SE1331	1617	SE8042	2030	SF314	2016	SG555CM	1723	SI-6A	1114	SI-RECT-50	1114
SDT6031	2020	SE1419	2016	SE8510	2030	SF334	2016	SG555M	1723	SI-7A	1114	SI-RECT-53	1104
SDT6101	2017	SE1730	1114	SE8520	2030	SF334B	2016	SG723CN	1740	SI-8A	1114	SI-RECT-59	1104
SDT6102	2017	SE2001	2016	SE8521	2030	SF335	2016	SG741CM	007	SI8A	1114	SI-RECT-69	1104
SDT6103	2020	SE2002	2016	SE9002	2041	SF335C	2016	SG-805	1104	SI-10A	1114	SI-RECT-73	1104
SDT6104	2017	SE2020	2016	SE9080	2041	SF335D	2016	SG-1198	1104	SI10A	1114	SI-RECT-75	1104
SDT6105	2017	SE2397	2016	SELEN-42	1101	SF1001	1617	SG1198	1104	SI50E	1104	SI-RECT-77	1104
SDT6106	2017	SE2401	1617	SELEN-44	1171	SF1713	1617	SG1458M	038	SI91G	1104	SI-RECT-84	1104
SDT7511	2020	SE2402	1617	SELEN-64	1114	SF1714	1617	SG1488J	2520	SI100E	1104	SI-RECT-92	1104
SDT7512	2020	SE-3001	2016	SELEN-70	1104	SF1726	1617	SG1489J	2521	SI-154	1104	SIRECT-92	1104
SDT7514	2020	SE3001	2016	SELEN-701	1104	SF1730	1617	SG3400	1104	SI1000E	1114	SI-RECT-94	1104
SDT7515	2020	SE3001R	2016	SEN 105	1101	SFC400E	1801	SG5009	1122	SI-1002	1104	SI-RECT-100	1104
SDT7601	2041	SE3002	2016	SEN 110	1104	SFC401E	1801	SG5013	2030	SI-1006	1104	SI-RECT-100-102	1104
SDT7602	2041	SE3003	2016	SEN 120	1102	SFC408E	1822	SG5400	1122	SI-1014	1104	SI-RECT-102	1104
SDT7603	2041	SE3005	2016	SEN 130	1103	SFC2458DC	038	SG5717	1122	SI-1020	1104	SI-RECT102	1104
SDT7607	2041	SE3019	2016	SEN 140	1103	SFC2805EC	1770	SG7400N	1801	SI-1021	1104	SIRECT-102	1104
SDT7608	2041	SE3032	2041	SEN 150	1104	SFC2812EC	1771	SG7812	1771	SI-1030	1104	SI-RECT-110	1114
SDT7609	2041	SE3033	2041	SEN 160	1104	SFC2815EC	1772	SG7918CP	1104	SIB01	1104	SI-RECT-110/SB-3F	1104
SDT7731	2041	SE3035	2041	SEN 180	1114	SFC3012	2016	SG9012I	2023	SIB01-01	1104	SI-RECT-112	1104
SDT7732	2041	SE3036	2041	SEN 205	1114	SFC3020	2016	SG-9150	1122	SIB01-01V	1104	SI-RECT-112/SB-3	1114
SDT7733	2041	SE3100	2009	SEN 210	1114	SFD037A	1123	SG9150	1122	SIB01-01W	1104	SI-RECT-122	1104
SDT9001	2017	SE3646	2016	SEN 220	1114	SFD12	1123	SGB-9742	2016	SIB-01-02	1104	SI-RECT-126	1104
SDT9002	2017	SE3819	2035	SEN 230	1114	SFD43	1122	SGC-7202	2009	SIB01-02	1102	SI-RECT-140	561
SDT9003	2017	SE-4001	2009	SEN 240	1114	SFD46	1122	SGC7202	2030	SIB01-06	1104	SI-RECT-140/TR-6	561
SDT9005	2017	SE4001	1617	SEN 250	1114	SFD48	1122	SGR100	1104	SIB01-06B	1104	SI-RECT-140/TR6S	561
SDT9006	2017	SE4002	2009	SEN 260	1114	SFD79	1122	SGS87231	2016	SIB-01-022	1104	SI-RECT-144	1104
SDT9007	2017	SE-4010	1617	SEN 280	1114	SFD83	1122	SH-1	1104	SIB01-022	1104	SI-RECT-152	1122
SDT9008	2017	SE4010	2009	SEN 305	1114	SFD103	1123	SH1	1104	SIB01-2	1104	SI-RECT-154	1104
SDT9009	2020	SE-4020	2030	SEN 310	1114	SFD104	1123	SH-1A	1104	SIB02-03C	1104	SI-RECT-155	1104
SDT9201	2041	SE4020	2016	SEN 320	1114	SFD107	1123	SH1A	1104	SIB02-03CR	1104	SI-RECT-156	1104
SDT9205	2041	SE4020/6-04	2016	SEN 330	1114	SFD111	1123	SH1B	1114	SIB02-CR	1104	SI-RECT-168	565
SDT9206	2041	SE4021	2016	SEN 340	1114	SFD112	1123	SH1C	1114	SIB02-CR1	1122	SI-RECT-178	1101
SDT9210	2041	SE4022	2016	SEN 350	1114	SFD164	1122	SH-1DE	1104	SIB03-08	1114	SI-RECT-178B	1101
SDT9261	2041	SE4172	1617	SEN 360	1114	SFD180	1122	SH1DE	1104	SIB03-10	1114	SI-RECT-204	1114
SDT9301	2041	SE-5001	2016	SEN 380	1114	SFD181	1122	SH-1S	1104	SIB020-1B	1171	SI-RECT-208	1114
SDT9302	2041	SE5001	2016	SEN 1100	1114	SFD182	1122	SH1S	1143	SIB0101	1104	SI-RECT-218	1104
SDT9303	2041	SE5002	2016	SEN 2100	1114	SFE145	2035	SH-1Z	1104	SIB0102	1104	SI-RECT-220	1104
SDT9304	2041	SE5003	2016	SEN 3100	1114	SFIR3B41	1067	SH4D05	1104	SIB-0306	1114	SI-RECT-222	1104
SDT9306	2041	SE5004	2016	SEN2A1	1171	SFIR3D41	1067	SH4D1	1104	SIB0306	1114	SI-RECT-226	1104
SDT9307	2041	SE-5006	1617	SEN2A4	1173	SFOR1A41	1067	SH4D2	1104	SIB0L-02	1104	SI-RECT-228	563
SDT9308	2041	SE5006	2016	SES632	2041	SFOR1B41	1067	SH4D3	1104	SIB1	1104	SI-RECT-230	563
SDT9309	2041	SE5010	2016	SES881	2041	SFOR2B41	1067	SH4D4	1104	SIB50B794-1	1171	SIRM-2C	1114
SD-W005M	1173	SE5015	2016	SES3819	2035	SFOR2D41	1067	SH4D6	1104	SID01-02	1104	SIR-RECT-44	1104
SD-Y	1104	SE5020	2016	SES5001	1114	SFOR2G41	1020	SH4D8	1114	SID01E	1104	SIS2	1123
SE0001	2009	SE5021	2016	SF0R1A41	1067	SFR135	1104	SH15	1104	SID01K	1114	SIS11	1123
SE002(1)	2016	SE5022	2016	SF1A11	1067	SFR151	1104	SH200	1101	SID01L	1104	SISD-1HF	1114
SE-05	1104	SE-5023	2016	SF1A11A	1067	SFR152	1104	SH200A	1101	SID02E	1104	SISD-1X	1104
SE05	1104	SE5023	2016	SF1B11	1067	SFR153	1104	SH202	1122	SID02K	1114	SISD-K	1104
SE-05-01	1104	SE-5024	2016	SF1B11A	1067	SFR154	1104	SH202A	1122	SID02L	1104	SISM-150-01	1104
SE-05-02	1104	SE5024	2016	SF1CN1	1114	SFR155	1104	SH212	1122	SID3B-3	1101	SISW-05-02	1104
SE-05-A	1104	SE-5025	2016	SF1D11	1067	SFR156	1104	SH212A	1122	SID50B851	1122	SISW-0502	1104
SE-05-B	1104	SE5025	2058	SF1D11A	1067	SFR164	1104	SH222	1122	SID51C052-19	1114	SITVR-06G	1104
SE-05-C	1114	SE5029	2016	SF1R3B41	1067	SFR251	1104	SH222A	1122	SID51C169	1104	SITVR-066	1104
SE-05-D	1114	SE5030	2016	SF1R3D41	1067	SFR252	1104	SH242	1122	SID50894	1122	SJ051E	1104
SE-05A	1104	SE5030A	1617	SF2B41	1067	SFR253	1104	SH242A	1122	SIF4	1104	SJ051F	1104
SE05A	1144	SE5030B	1617	SF2D41	1067	SFR254	1104	SH252	1122	SIF14A-P	1104	SJ052E	1104
SE05B	1104	SE5031	2016	SF2G41	1020	SFR255	1104	SH252A	1122	SIG1/100	1143	SJ052F	1104
SE-05C	1114	SE5032	2016	SF2K212XXX3XX	2062	SFR256	1104	SH300	1122	SIG1/200	1143	SJ053F	1141
SE05C	1114	SE5035	2016	SF3CN1	1114	SFR258	1114	SH300A	1122	SIG1/400	1104	SJ60F	1104
SE05D	1104	SE5036	2016	SF3D41	1067	SFR264	1104	SH301	1122	SIG1/600	1104	SJ101F	1104
SE05S	1104	SE5040	2016	SF3G14	1020	SFR266	1104	SH301A	1122	SIL	1114	SJ102F	1104
SE05SS	1104	SE5050	2016	SF4	1114	SFR268	1114	SH302	1122	SIL200	1104	SJ103F	1143

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
SJ201F	1104	SK3017A	1104	SK3274	2027	SK3784	562	SK9432/319P	2009	SLA11C	1104	SLA606	1104
SJ202F	1104	SK3017B	1104	SK3274/153	2027	SK3784/5018	562	SK9433	2009	SLA-12	1104	SLA606A	1104
SJ203F	1143	SK3020	1617	SK3293	2016	SK3784/5018A	562	SK9434	2023	SLA12AB	1104	SLA1095	1104
SJ301F	1104	SK3020/123	1617	SK3293/107	2016	SK3787	563	SK9450	2020	SLA12C	1104	SLA1096	1104
SJ302F	1104	SK3024	2030	SK3297	2041	SK3787/5021	563	SK9450/241	2020	SLA-13	1102	SLA1100	1104
SJ401F	1104	SK3024/128	2030	SK3297/280	2041	SK3787/5021A	563	SK-31024-3	2016	SLA13AB	1104	SLA1101	1104
SJ402F	1104	SK3027	2041	SK3311	1102	SK3790	564	SK31024-3	2016	SLA13C	1104	SLA1102	1104
SJ403F	1144	SK3027/130	2041	SK3312	1103	SK3790/5024	564	SK707380	1000	SLA-14	1103	SLA1103	1144
SJ501F	1104	SK3030	1104	SK3313	1104	SK3790/5024A	564	SKA0030	2009	SLA14AB	1104	SLA1104	1104
SJ570	1617	SK3031	1104	SK3313/116	1104	SK3834/132	2035	SKA1080	1617	SLA14C	1104	SLA1105	1104
SJ601F	1104	SK3031A	1103	SK3315	1101	SK3852/1232	703	SKA1117	1617	SLA-15	1103	SLA1487	1104
SJ619	2041	SK3032	1114	SK3315/507	1101	SK3854/123AP	2009	SKA1279	2023	SLA15AB	1104	SLA1488	1104
SJ619-1	2041	SK3032A	1114	SK3333	565	SK3893/152	2020	SKA1395	1617	SLA15C	1104	SLA1489	1104
SJ820	2041	SK3033	1114	SK3333/5069A	565	SK3896/261	2068	SKA1416	2016	SLA-16	1104	SLA1490	1104
SJ821	2043	SK3033A	1114	SK3359	2043	SK3911	2030	SKA-4061	2023	SLA16AB	1104	SLA1491	1104
SJ1003F	1114	SK3038	2030	SK3359/281	2043	SK3912	2023	SKA-4074	2016	SLA16C	1104	SLA1492	1104
SJ1106	2041	SK3041	2020	SK3440	2020	SK3938/5633	1000	SKA4074	2016	SLA-17	1104	SLA1692	1104
SJ1152	2027	SK3046	2009	SK3440/291	2020	SK3950/5400	1067	SKA-4075	2016	SLA17AB	1104	SLA1693	1104
SJ1171	2027	SK3047	2030	SK3444	1617	SK3951/5405	1020	SKA4075	2016	SLA17C	1104	SLA1694	1104
SJ1284	2027	SK3047A	2030	SK3444/123A	1617	SK3953/5412	1067	SKA-4076	2058	SLA-18	1114	SLA1695	1104
SJ1470	2041	SK3051	1114	SK3452	2016	SK3954/5414	1067	SKA4076	2016	SLA18AB	1114	SLA1696	1104
SJ1925	2035	SK3051/156	1114	SK3452/108	2016	SK3955/5415	1020	SKA4129	2023	SLA18C	1114	SLA1697	1104
SJ2000	2041	SK3054	2020	SK3465	038	SK4001	2401	SKA4141	1617	SLA-19	1114	SLA2610	1104
SJ2001	2043	SK3054/196	2020	SK3465/778	038	SK4001B	2401	SKA4525	2016	SLA19AB	1114	SLA2611	1104
SJ2008	2041	SK3056	565	SK3465/778A	038	SK4011	2411	SKA-4590	2058	SLA19C	1114	SLA2612	1104
SJ2032	2030	SK3056/135A	565	SK3466	2023	SK4011B	2411	SKA4616	2030	SLA-21	1114	SLA2613	1104
SJ3604	2041	SK3058	561	SK3466/159	2023	SK4013	2413	SKA4768	2016	SLA21A	1141	SLA2614	1104
SJ3629	2009	SK3058/137A	561	SK3506	1000	SK4013B	2413	SKA-4802	2016	SLA21B	1141	SLA2615	1104
SJ3678	2041	SK3060	562	SK3506/5642	1000	SK4017	2417	SKA-5248	2016	SLA21C	1141	SLA2616	1114
SJ5525	2055	SK3060/139A	562	SK3510	2041	SK4017B	2417	SKA5248	2016	SLA-22	1114	SLA2617	1114
SJ5526	2055	SK3062	563	SK3534	2020	SK4049	2449	SKA-5541	2016	SLA22A	1143	SLA3193	1104
SJ6351	2055	SK3062/142A	563	SK3552	007	SK4049UB	2449	SKA-5886	2016	SLA22B	1143	SLA3194	1104
SJ8701	2041	SK3063	564	SK3552/941M	007	SK4066	2466	SKA5886	2016	SLA22C	1143	SLA3195	1104
SJ9110	2041	SK3063/145A	564	SK3564	1723	SK4066B	2466	SKA6250	2023	SLA-23	1114	SLA3196	1114
SJE42	2020	SK3080	1114	SK3564/955M	1723	SK5010/117A	1114	SKA-6256	2009	SLA23B	1143	SLA5197	1141
SJE513	2020	SK3081	1114	SK3569	1712	SK5010A/117A	1114	SKA-6437	2009	SLA23C	1143	SLA5198	1143
SJE514	2027	SK3081/125	1114	SK3569/834	1712	SK5188/75188	2520	SKA6556	1617	SLA-24	1114	SLA5199	1143
SJE515	2020	SK3087	1123	SK3577/5408	1067	SK5189/75189	2521	SKA-8105	2009	SLA24A	1144	SLA5200	1144
SJE677	2027	SK3088	1123	SK3578/5409	1020	SK5550/5650	1000	SKA9013	2016	SLA24B	1144	SLAO1	1114
SJE678	2020	SK3090	1123	SK3583	1000	SK5551/5651	1000	SKA9096	2016	SLA24C	1144	SLP-235B	037
SJE694	2020	SK3090/109	1123	SK3583/5641	1000	SK5552/5652	1000	SKB8339	1617	SLA-25	1114	SLP-235B(GR)	037
SJE695	2027	SK3091	1123	SK3591	1770	SK5797	2023	SKMV130J/2V130	570	SLA25A	1144	SLP-236B	021
SJE783	2020	SK3092	563	SK3591/960	1770	SK5798	2023	SKMV130K/524V13	568	SLA25B	1144	SLP-236B(G)	022
SJE-5038	2017	SK3092/141A	563	SK3592	1771	SK5801	1617	SKS1/01	1114	SLA25C	1144	SLP-236B(GR)	022
SJE8621	2027	SK3100	1122	SK3592/966	1771	SK5915	1617	SKS1/04	1114	SLA-26	1114	SLP-236B(GREEN)	022
SJE8635	2020	SK3100/519	1122	SK3593	1772	SK6345	2023	SKS1/08	1114	SLA-27	1114	SLP-236B(Y)	021
SK04	1114	SK3106	1173	SK3593/968	1772	SK6346	2023	SL-030	1104	SLA-28	1114	SLP-236B(YEL)	021
SK08	1114	SK3106/5304	1173	SK3597	1067	SK6347	2023	SL030S	1104	SLA-29	1114	SLP-236B(YELLOW)	021
SK1-K2	1102	SK3110	1101	SK3597/5455	1067	SK6347A	2023	SL-030T	1104	SLA-50-LCD	1171	SLP-236P(GR)	022
SK1K-2	1104	SK3110/120	1101	SK3598	1020	SK6601/5601	1000	SL030T	1104	SLA-100-LCD	1171	SLP-888A	088
SK4A7/5009A	565	SK3111/277	2055	SK3598/5457	1020	SK6708/5608	1000	SL0305,T	1104	SLA-400-LCD	1173	SM07275	2009
SK4V7/5069A	565	SK3112	2035	SK3620	2020	SK6740/5640	1000	SL-2	1104	SLA440	1104	SM07286	2009
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SK5V1/135A	565	SK3114/290	2023	SK3627/5404	1067	SK6753/5453	1067	SL-3	1104	SLA441	1104	SM-1-005	1104
SK6A2/5013A	561	SK3114A/290A	2023	SK3638	1067	SK6754/5454	1067	SL-5	1143	SLA441B	1104	SM-1-02	1104
SK6V0/5070A	561	SK3115	2055	SK3638/5402	1067	SK7400	1801	SL5	1104	SLA442	1104	SM1-02	1104
SK6V2/137A	561	SK3115/165	2055	SK3643	1711	SK7401	1801	SL91	1104	SLA442B	1104	SM-1-02FR	1104
SK8A7/5017A	562	SK3117	2016	SK3643/987	1711	SK7404	1802	SL92	1104	SLA443	1104	SM-1-02FRA	1104
SK8V7/5073A	562	SK3118	2023	SK3648/168	1173	SK7408	1822	SL93	1104	SLA443B	1104	SM-1-04	1104
SK9A1/5018A	562	SK3120	1101	SK3664	1000	SK7447	1805	SL100	2016	SLA444	1104	SM-1-04FR	1104
SK9V1/139A	562	SK3120/114	1101	SK3664/5602	1000	SK7490	1808	SL-103	1143	SLA444A	1104	SM-1-04FRA	1104
SK11V5/141A	563	SK3121	1101	SK3665/5603	1000	SK7641/858M	1715	SL103	1104	SLA444B	1104	SM-1-06FRA	1104
SK12A/5021A	563	SK3121/115	1101	SK3666/5605	1000	SK8251	1617	SL119	2023	SLA445	1104	SM-1-08	1114
SK12V/142A	563	SK3122	2009	SK3679	1185	SK8937	2058	SL300	1617	SLA445B	1104	SM-1-08FR	1114
SK15A/5024A	564	SK3124	2009	SK3683/5511	1067	SK9000/552	1104	SL301C	2030	SLA536	1104	SM-1-08FRA	1114
SK15V/145A	564	SK3124/289	2009	SK3684/5512	1020	SK9001/113A	1104 N2	SL301CE	2030	SLA537	1104	SM-1-10FR	1114
SK19	2035	SK3124A/289A	2009	SK3689/978	1728	SK9002	1104 N1	SL403	2009	SLA538	1104	SM-1-10FRA	1114
SK52	570	SK3133	2055	SK3709	1123	SK9003/5800	1141	SL608	1114	SLA539	1104	SM-1-47	1104
SK52/2V130	570	SK3133/164	2055	SK3709/110MP	1123	SK9004/5801	1143	SL610	1114	SLA540	1104	SM-1A-01	1104
SK53	568	SK3165/923D	1740	SK3710	2055	SK9005/5802	1143	SL708	1114	SLA547	1104	SM-1A-01Z	1104
SK53/524V13	568	SK3173	2043	SK3710/238	2055	SK9006/5803	1144	SL710	1114	SLA560	1114	SM-1A-02	1104
SK107-4	2035	SK3173/219	2043	SK3716	2016	SK9007/5804	1144	SL-833	1104	SLA561	1114	SM-1A-02FR	1104
SK119	1122	SK3174	1104	SK3716/161	2016	SK9021/5070A	561	SL833	1104	SLA591LT3	066A	SM-1A-02FRA	1104
SK-218	1104	SK3175/177	1122	SK3749	562	SK9075/166	1171	SL-833A	1104	SLA599	1104	SM-1A-02Z	1102
SK218	1104	SK3192	2017	SK3749/5073A	562	SK9089/832	1721	SL833A	1104	SLA599A	1104	SM-1A-04	1104
SK1320	2016	SK3192/186	2017	SK3775	565	SK9091/177	1122	SL918	2016	SLA600	1104	SM-1A-04FR	1104
SK1639	2023	SK3231	705	SK3775/5009	565	SK9112/377	2020	SL3693	2016	SLA600A	1104	SM-1A-04FRA	1104
SK1640	2023	SK3231/1155	705	SK3775/5009A	565	SK9157/312	2035	SL14971	1822	SLA601	1104	SM-1A-04Z	1103
SK1641	1617	SK3245	2016	SK3776	565	SK9161/457	2062	SL16793	1801	SLA601A	1104	SM-1A-06	1104
SK2007/3007	026	SK3245/199	2016	SK3776/5010	565	SK9164/451	2062	SL16794	1801	SLA602	1104	SM-1A-06FR	1104
SK2022/3022	041	SK3246	2058	SK3776/5010A	565	SK9210/823	1731	SL16796	1802	SLA602A	1104	SM-1A-06FRA	1104
SK2026/3026	025	SK3246/229	2058	SK3779	561	SK9215/956	1778	SL16798	1822	SLA603	1104	SM-1A-06Z	1104
SK2056/3056	075	SK3246A/229	2058	SK3779/5013	561	SK9229/85	2009	SL17869	1822	SLA603A	1104	SM-1A-200	1104
SK2061/3061	053	SK3247	2023	SK3779/5013A	561	SK9234/331	2020	SL53431	1801	SLA604	1104	SM-1K	1104
SK2115/3115	081	SK3247/234	2023	SK3783	562	SK9296	1101	SLA01	1114	SLA604A	1104	SM1K	1144
SK2604	2023	SK3256	2020	SK3783/5017	562	SK9296/114	1101	SLA-11	1101	SLA605	1104	SM-1XH02	1104
SK3016	1104	SK3272	2020	SK3783/5017A	562	SK9387/233	2009	SLA11AB	1104	SLA605A	1104	SM-1XH04	1104

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
SM-1XH06	1104	SM514	1104	SN7447N-10	1805	SP3058	561	SPS-1351	2016	SPS3971	2016	SPS4199	2009
SM-1XM02	1104	SM515	1104	SN7490A	1808	SP3060	562	SPS1351	2016	SPS3972	2009	SPS4236	2009
SM-1XM04	1104	SM516	1104	SN7490AJ	1808	SP3062	563	SPS-1352	2016	SPS3973	2009	SPS4300	2030
SM-1XM06	1104	SM517	1114	SN7490AN	1808	SP3063	564	SPS1352	2016	SPS3987	2023	SPS4302	2023
SM-1XN02	1104	SM518	1114	SN7490N	1808	SP3080	1114	SPS-1353	2016	SPS3988	2023	SPS4303	2009
SM-1XN04	1104	SM520	1114	SN7490N-10	1808	SP3081	1114	SPS1353	2016	SPS3990	2023	SPS4309	2030
SM-1XN06	1104	SM576-1	1617	SN52723N	1740	SP3087	1123	SPS1359	2023	SPS3999	2009	SPS4311	2030
SM-1.5-08	1114	SM576-2	1617	SN72555JP	1723	SP3088	1123	SPS1436	2020	SPS4000	2023	SPS4313	2009
SM-1.5-08FR	1114	SM645	1104	SN72555P	1723	SP3090	1123	SPS1437	2027	SPS4002	2016	SPS4314	2023
SM-1.5-10	1114	SM646	1104	SN72723J	1740	SP3091	1123	SPS-1473	2016	SPS4003	2009	SPS4330	2023
SM-1.5-10FR	1114	SM705	1104	SN72723N	1740	SP3092	563	SPS1473	2016	SPS4004	2009	SPS4331	2058
SM-1.5-10Z1	1104	SM710	1104	SN72741P	007	SP3096(ZENER)	564	SPS-1473RT	2058	SPS4005	2016	SPS4338	2023
SM-3-08	1114	SM-716	1617	SN75188	2520	SP3105	1171	SPS-1475(YT)	2009	SPS4006	2009	SPS4343	2016
SM-3-08FR	1114	SM716	1617	SN75188J	2520	SP3106	1173	SPS-1475YT	2009	SPS4007	2023	SPS4344	2009
SM4	1104	SM720	1104	SN75188N	2520	SP3112	2035	SPS-1476	2016	SPS4008	2016	SPS4345	2009
SM5	1104	SM730	1104	SN75189	2521	SP3114	2023	SPS1523	2023	SPS4009	2009	SPS4347	2009
SM10	1104	SM740	1104	SN75189A	2521	SP3116	2035	SPS-1539	2023	SPS4013	2023	SPS4348	2023
SM11	1104	SM750	1104	SN75189AN	2521	SP3117	2016	SPS-1539(WT)	2016	SPS4014	2023	SPS4354	2023
SM20	1104	SM760	1104	SN75189N	2521	SP3120	1101	SPS-1539WT	2023	SPS4016	2016	SPS4355	2023
SM30	1104	SM770	1114	SNR-14A130K	570	SP3121	1101	SPS1593WT	2023	SPS4017	2009	SPS4356	2009
SM31	1104	SM780	1114	SNR14A130K	570	SP3122	2009	SPS1802	2009	SPS4018	2023	SPS4359	2009
SM40	1104	SM800	1114	SNR20A130K	568	SP3502	1067	SPS1817	2009	SPS4019	2023	SPS4360	2009
SM50	1104	SM1507	2023	SNR-20A150K	568	SP3510	2041	SPS1846	2058	SPS4020	2009	SPS4361	2030
SM51	1104	SM2700	1617	SNR-A130L10	570	SP3512	2030	SPS1977	2009	SPS4025	2023	SPS4363	2009
SM60	1104	SM2701	1617	SNT204	2023	SP4436	2016	SPS1978	2023	SPS4026	2023	SPS4365	2023
SM70	1114	SM3104	1617	SO10G	1114	SP8416	2020	SPS2104	2009	SPS4027	2023	SPS4367	2009
SM71	1114	SM3117A	1617	SO46	1123	SP8660	2020	SPS2110	2016	SPS4028	2023	SPS4368	2009
SM73	1114	SM3505	1617	SO501	1104	SPC40	1617	SPS2111	2016	SPS4029	2009	SPS4382	2009
SM80	1114	SM3978	2030	SO-632	562	SPC42	1617	SPS2129	2009	SPS4030	2016	SPS4390	2009
SM81	1114	SM3986	1617	SOA	1114	SPC50	1617	SPS2130	2030	SPS4031	2023	SPS4391	2030
SM83	1114	SM-4304-S	2016	SOD30AL	1141	SPC51	1617	SPS2135	2058	SPS4032	2009	SPS4392	2009
SM100	1114	SM4304-5	2058	SOD30BL	1141	SPC52	1617	SPS2142	2009	SPS4034	2009	SPS-4396	2009
SM101	1114	SM4508-B	1617	SOD30DL	1141	SPC410	2055	SPS2164	2009	SPS4037	2009	SPS4397	2023
SM103	1114	SM4547	2023	SOD50AL	1141	SPC413	2055	SPS2167	2016	SPS4038	2030	SPS4399	2016
SM105	1104	SM4719	2023	SOD50BL	1141	SPC423	2055	SPS2194	2009	SPS4039	2009	SPS-4423	2016
SM110	1104	SM5379	1617	SOD50CL	1141	SPC424	2055	SPS2216	2016	SPS4040	2009	SPS4423	2016
SM112	1104	SM5564	2009	SOD50DL	1141	SPC425	2055	SPS2217	2016	SPS4041	2009	SPS4436	2058
SM120	1104	SM5643	2009	SOD100AL	1143	SPF024	2035	SPS2224	2016	SPS4042	2009	SPS4443	2009
SM130	1104	SM5796	2016	SOD100BL	1143	SPF530	2058	SPS2225	2009	SPS4043	2016	SPS4446	2009
SM140	1104	SM6251	2030	SOD100CL	1143	SPN-01	1104	SPS-2265	2016	SPS4044	2009	SPS4450	2009
SM150	1114	SM6762	2009	SOD100DS	1143	SPN01	1104	SPS2265	2016	SPS4045	2009	SPS4451	2009
SM-150-005	1114	SM6773	2009	SOD200AL	1143	SPS0122	2030	SPS2265-2	2016	SPS4049	2009	SPS4452	2023
SM150-01	1114	SM7545	2009	SOD200BL	1143	SPS4	2016	SPS-2266	2016	SPS4050	2016	SPS4453	2009
SM-150-02	1114	SM7815	2009	SOD200CL	1143	SPS12	2023	SPS2266	2016	SPS4051	2016	SPS4455	2009
SM150-02	1114	SM7836	2009	SOD-200D	1114	SPS20	2016	SPS2269	2023	SPS4052	2009	SPS4456	2009
SM-150-02(CENTERING)	1101	SM7991	2030	SOD200D	1104	SPS22	2023	SPS2270	2009	SPS4053	2009	SPS4457	2009
SM-150-04	1104	SM8112	2009	SOD200DL	1143	SPS38	2016	SPS2271	2016	SPS4054	2023	SPS4458	2023
SM-150-06	1104	SM8113	2009	SP0256	1784	SPS40	2016	SPS2272	2023	SPS4055	2009	SPS4459	2009
SM-150-08	1114	SM8978	2009	SP0256-AL2	1784	SPS41	1617	SPS2274	2023	SPS4056	2023	SPS4460	2023
SM150-6	1114	SM9008	2009	SP-1	1104	SPS42	2023	SPS2279	2023	SPS4059	2009	SPS4461	2030
SM-150-10	1114	SM9135	2009	SP1	1104	SPS43-1	2016	SPS2320	2016	SPS4060	2009	SPS4472	2009
SM150-11	1114	SM9253	2009	SP1K-1	1104	SPS47	2023	SPS2415	2009	SPS4061	2009	SPS4473	2023
SM-150-A	1104	SMB-01	1171	SP1K-2	1104	SPS49	2030	SPS2425	2016	SPS4062	2009	SPS4476	2009
SM-150-B	1104	SMB-04	1173	SP-1.5A	1141	SPS220	2016	SPS3003	2016	SPS4063	2009	SPS4478	2009
SM-150-C	1114	SMC7400N	1801	SP2-01	1171	SPS401K	2023	SPS3015	2009	SPS4064	2023	SPS4480	2023
SM-150-D	1114	SMC7408N	1822	SP2-04	1173	SPS428	2016	SPS3329	2023	SPS4066	2009	SPS4489	2023
SM-150A	1114	SMC7490N	1808	SP6GD1	1101	SPS429	2016	SPS3370	2016	SPS4067	2009	SPS4490	2030
SM150A	1114	SN0303	1104	SP6GX1	1101	SPS477	2009	SPS3438	2023	SPS4068	2016	SPS4491	2009
SM150B	1114	SN-1	1104	SP10	2009	SPS514	2023	SPS3724	2023	SPS4069	2009	SPS4493	2009
SM150C	1114	SN1	1104	SP11	2016	SPS627	2023	SPS3735	2009	SPS4072	2023	SPS4494	2009
SM150D	1114	SN-1Z	1104	SP14	2041	SPS668	2023	SPS3786	2023	SPS4073	2023	SPS4495	2030
SM150S	1114	SN10	1114	SP17	1617	SPS699	2009	SPS3787	2016	SPS4074	2009	SPS4498	2009
SM150SS	1114	SN166	2030	SP18	2030	SPS816	2016	SPS3900	2009	SPS4075	2009	SPS4610	2016
SM160	1104	SN167	2030	SP34AS	1123	SPS817	2009	SPS3907	2009	SPS4076	2023	SPS4813	2023
SM170	1114	SN2222AP	2009	SP60	1123	SPS817N	1617	SPS3908	2009	SPS4076A	2023	SPS4814	2016
SM180	1114	SN4448	1122	SP70	2023	SPS-856	2016	SPS3909	2009	SPS4077	2009	SPS4815	2023
SM200	1114	SN7400	1801	SP90	2023	SPS856	2016	SPS3912	2030	SPS4078	2023	SPS4920	2009
SM205	1104	SN7400A	1801	SP101	1122	SPS-860	2016	SPS3914	2030	SPS4079	2016	SPS5000	2009
SM210	1104	SN7400J	1801	SP295	1123	SPS860	2016	SPS3915	2009	SPS4080	2016	SPS5006	2009
SM215A	1102	SN7400N	1801	SP3016	1104	SPS868	1617	SPS3923	2009	SPS4081	2009	SPS5006-1	2009
SM220	1104	SN7400N-10	1801	SP3018	2016	SPS906	2016	SPS3924	2023	SPS4082	2023	SPS5006-2	2009
SM230	1104	SN7401	1801	SP3019	2016	SPS907	2009	SPS3925	2009	SPS4083	2009	SPS5007	2023
SM240	1104	SN7401J	1801	SP3020	1617	SPS915	2016	SPS3926	2009	SPS4084	2009	SPS5007-1	2023
SM250	1104	SN7401N	1801	SP3024	2030	SPS-917	2058	SPS3927	2023	SPS4085	2009	SPS5007-2	2023
SM260	1104	SN7404	1802	SP3027	2041	SPS917	2016	SPS3929	2016	SPS4086	2023	SPS5008	2023
SM270	1114	SN7404J	1802	SP3030	1104	SPS918	2009	SPS3930	2009	SPS4087	2023	SPS5569	2016
SM280	1114	SN7404N	1802	SP3031	1103	SPS919	2016	SPS3931	2023	SPS4088	2009	SPS5809	2030
SM300	1114	SN7404N-10	1802	SP3032	1114	SPS920	2058	SPS3936	2009	SPS4089	2009	SPS6109	2023
SM483	1104	SN7408	1822	SP3033	1114	SPS-934	2009	SPS3937	2016	SPS4090	2023	SPS6111	2009
SM486	1104	SN7408J	1822	SP3036	2043	SPS934	1617	SPS3938	2009	SPS4091	2016	SPS6112	2009
SM487	1104	SN7408N	1822	SP3038	2009	SPS-952	2009	SPS3940	2009	SPS4095	2009	SPS6113	2009
SM488	1104	SN7408N-10	1822	SP3041	2020	SPS952	2009	SPS3948	2016	SPS4143	2016	SPS6124	2030
SM505	1104	SN7447A	1805	SP3046	2009	SPS-952-2	2009	SPS3951	2009	SPS-4145	2016	SPS6155	2058
SM510	1104	SN7447AJ	1805	SP3047	2030	SPS952-2	2009	SPS3952	2016	SPS4145	2016	SPS6571	2009
SM512	1104	SN7447AN	1805	SP3051	1114	SPS1045	1617	SPS3957C	2009	SPS4167	2016	SPS6682	2016
SM513	1104	SN7447J	1805	SP3054	2020	SPS1082	2009	SPS3967	2009	SPS4168	2016	SPS6953	2023
		SN7447N	1805	SP3056	565	SPS1097	2023	SPS3968	2016	SPS4169	2009	SPS7359	2009

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SPS7652	2009	SR1K-20	1114	SR200	1104	SRP100G	1104	ST-2SA562Y	2023	ST251	1617	ST62180	2023
SPT3713	2041	SR1K-Z	1104	SR200B	1104	SRP100J	1104	ST-2SA673C	2023	ST403	1617	ST83255	2023
SQ46	1123	SR1KZ	1104	SR205	1104	SRP100K	1104	ST-2SA733Q	2023	ST415	2016	STA608XFXXXXI	2023
SR-0005	1104	SR1S-1	1101	SR210	1143	SRQ02-100	1114 N3	ST-2SA844C	2023	ST501	1617	STB01-02	1122
SR-0007	1104	SR1T	1104	SR220	1143	SRQ02-200	1114 N3	ST-2SA1015Y	2023	ST502	1617	STB568	1122
SR-0008	1104	SR-1Z	1104	SR-390	1104	SRQ02-400	1114 N3	ST-2SC383W	2009	ST503	1617	STB569	1122
SR-05K-2	1104	SR1Z	1104	SR390	1104	SRS105	1101	ST-2SC454C	2009	ST504	1617	STB576	1122
SR05K-2	1104	SR-2	1104	SR401	1104	SS0007	1123	ST-2SC458C	2009	ST722	2030	STB598XEXXXXX	2023
SR05K-4	1104	SR2A-1	1104	SR405	1104	SS0008	1123	ST-2SC460	2009	ST723	2030	ST-BU208	2055
SR05K-8	1104	SR2A1	1104	SR475	1141	SS0009	1104	ST-2SC535	2016	ST903	2016	STC536XFXXUB	2009
SR05K-12	1104	SR2A-2	1104	SR499	1114	SS00010	1104	ST-2SC535B	2016	ST904	2016	STC930XEXXXRI	2016
SR-1	1104	SR2A2	1104	SR500	1104	SS-1	1104	ST-2SC1070	2016	ST904A	2016	STC1035	2041
SR1-2	1104	SR2A-4	1104	SR500B	1104	SS-2N5062	1067	ST-2SC1213C	2009	ST905	2016	STC1035A	2041
SR1A-1	1104	SR2A4	1104	SR507	1143	SS29A4	2023	ST-2SC1213D	2009	ST910	2016	STC1036	2041
SR1A1	1104	SR2A-8	1114	SR605	1104	SS29A5	2023	ST-2SC1213D-24	2009	ST1026	2016	STC1036A	2041
SR1A-2	1104	SR2A8	1104	SR806-126	1104	SS321	1102	ST-2SC1317Q	2009	ST1042	2009	STC1080	2041
SR1A2	1104	SR2A-12	1114	SR846-2	1104	SS322	1102	ST-2SC1730	2016	ST1042C	2009	STC1081	2041
SR1A-4	1104	SR2A12	1104	SR851	1104	SS324	1102	ST-2SC1855	2058	ST1050	2016	STC1082	2041
SR1A4	1104	SR2B12	1114	SR851-121	1104	SS325	1101	ST-2SC1906	2016	ST1051	2016	STC1083	2041
SR1A-8	1104	SR2B16	1114	SR889	1104	SS334	1102	ST-2SC1923-O	2058	ST1242	1617	STC1084	2041
SR1A8	1104	SR2B20	1114	SR1024	1104	SS337	1102	ST-2SD235Y	2020	ST1243	1617	STC-1085	2041
SR1A12	1104	SR2K	1104	SR1104	1104	SS455	1104	ST-2SD467B	2009	ST1244	1617	STC1300	2020
SR1B	1171	SR-2T	1104	SR1266	1104	SS1202	1303	ST-2SD467C	2009	ST1290	1617	STC1674LXXXXX	2016
SR1C-2	1102	SR-3	1104	SR1378-2	1144	SS1606	2023	ST9	2016	ST1336	2016	STC1800	2017
SR1C-4	1103	SR3	1104	SR1422	1141	SS1906	2023	ST10	2016	ST1402C	1617	STC1850	2020
SR1C-6	1103	SR3AM	1114	SR1493	1104	SS2308	1617	ST11	2016	ST1402D	2009	STC1860	2020
SR1C-8	1104	SR3AM1	1141	SR1549	1104	SS2503	2023	ST12	2016	ST1402E	2009	STC1862	2017
SR1C-12	1104	SR3AM2	1114	SR1598	1141	SS2504	1617	ST13	2016	ST1502B	2016	STC4252	2041
SR1C-16	1114	SR3AM-3	1143	SR1643A	1141	SS3534-4	2035	ST14	2016	ST1502C	2016	STC4253	2041
SR1C-20	1114	SR3AM4	1114	SR-1668	1104	SS3586	2035	ST15	2016	ST1502CD	2016	STC4254	2041
SR1D-1	1104	SR3AM6	1144	SR1668	1104	SS3638	2023	ST16	1104	ST1502D	2016	STC4255	2041
SR1D1M	1104	SR3AM8	1144	SR1692	1104	SS3638A	2023	ST18	1114	ST-1502L	2009	STC5202	2027
SR1D-2	1104	SR3BM-6	1104	SR1693	1104	SS3672	2035	ST25A	1617	ST1502L	2009	STC5203	2027
SR1D-4	1104	SR-4	1104	SR1694	1104	SS3694	1617	ST25B	1617	ST1506	1617	STC5205	2027
SR1D-6	1104	SR4	1104	SR1695	1104	SS-3704	2035	ST25C	1617	ST1543	2009	STC5206	2027
SR1D-8	1104	SR-5	1104	SR1731-1	1104	SS3704	2035	ST29	2016	ST1602D	2023	STC5303	2027
SR1DM	1104	SR5	1104	SR1731-2	1104	SS3735	2035	ST30	2016	ST1607	1617	STC5802	2027
SR1DM-1	1104	SR-9	1104	SR1731-3	1104	SS4001AE	2401	ST31	2016	ST1694	1617	STC5803	2027
SR1DM1	1104	SR10	1101	SR1731-4	1104	SS4011AE	2411	ST32	2016	ST1700	2009	STC5805	2027
SR1DM-2	1141	SR-13	1122	SR1731-5	1104	SS4013AE	2413	ST33	2016	ST1702L	2009	STC5806	2027
SR1DM-4	1104	SR13H	1104	SR1742	1104	SS4042	2016	ST34	2016	ST1702M	2009	STD330XEXXXXX	2020
SR1DM-6	1104	SR-14	1104	SR1762	1143	SS6724	2023	ST35	2016	ST1702N	2009	STD734FXFXXXX	2009
SR1DM-8	1104	SR14	1101	SR1766	1104	SS9328	2009	ST40	2016	ST2040P	1104	STD9007	2017
SR1DM-10	1104	SR15	1101	SR-1849-1	1104	SSA43	2023	ST41	2016	ST2110	2016	STE400	2016
SR1DMX	1104	SR17	1104	SR1984	1104	SSA43A	2023	ST42	2016	ST2120	2016	STE401	1617
SR1E	1104	SR-18	1104	SR2121	1104	SSA46	2023	ST43	2016	ST2130	2016	STFCN10	1104
SR1EM	1104	SR-20	1122	SR2301	1104	SSA46A	2023	ST44	2016	ST3030	1617	ST-HIT9012H	2023
SR1EM-1	1104	SR22	1104	SR2301A	1104	SSA48	2023	ST45	2016	ST3031	1617	STHIT9012H	2023
SR1EM1	1104	SR23	1104	SR3010	1104	SSD708	1122	ST50	1617	ST4150	2030	ST-HIT9013H	2009
SR1EM-2	1104	SR24	1104	SR3582	1104	SSD974	1104	ST51	1617	ST4201	2030	STHIT9013H	2009
SR1EM2	1104	SR-27	1104	SR3943	1104	SSH1A020	1101	ST53	1617	ST4202	2030	ST-HIT9014C	2009
SR1EM-4	1114	SR27	1104	SR6134	1104	SSH1A040	1101	ST54	1617	ST4203	2030	STHIT9014C	2009
SR1EM-6	1104	SR-28	1104	SR6324	1104	SSH1A060	1104	ST55	1617	ST4204	2030	ST-HIT9016G	2058
SR1EM-8	1104	SR28	1104	SR6325	1104	SSH1A080	1104	ST56	1617	ST4341	2030	STI701	2055
SR1EM-10	1104	SR-30	1101	SR6385	1104	SSH3A020	1114	ST57	1617	ST5060	1617	ST-JE9014C	2009
SR1EM-12	1104	SR30	1104	SR6415	1104	SSH3A030	1114	ST58	1617	ST5641	2016	ST-LM2152	2009
SR1EM-16	1114	SR35	1104	SR6560	1104	SSH3A040	1114	ST59	1617	ST6110	1617	ST-LM2682	2009
SR1EM-20	1114	SR-37	1101	SR6567	1104	SSH3A050	1114	ST60	2016	ST6120	2016	ST-MPS9410AJ	2030
SR1FM	1104	SR37	1101	SR6617	1104	SSH3A060	1114	ST61	2016	ST6125	2016	ST-MPS9410AK	2030
SR1FM-1	1104	SR40	1104	SR9003	1104	SSI202	1303	ST62	2016	ST6130	2009	ST-MPS9433	2009
SR1FM2	1104	SR50	1104	SR-9005	1101	SSI1120	1144	ST63	1617	ST6510	2016	ST-MPS9433S	2009
SR1FM-4	1104	SR60	1104	SR9005	1104	SSIB0140	1114	ST64	1617	ST6511	1617	ST-MPS9433T	2009
SR1FM4	1104	SR-76	1104	SR20226	2058	SSIB0180	1114	ST70	2016	ST6512	1617	ST-MPS9632J	2009
SR1FM6	1104	SR76	1104	SR20234	2009	SSIB0640	1114	ST71	2016	ST6573	2030	ST-MPS9633C	2009
SR1FM-8	1104	SR-100	1143	SR50411-1	1104	SSIB0680	1114	ST72	2016	ST6574	2030	ST-MPS9682J	2023
SR1FM8	1144	SR100	1104	SR63197	2023	SSIC0810	1143	ST80	2016	ST6593	1617	ST-MPS9700D	2009
SR1FM-12	1114	SR101-1	1104	SR75844	1617	SSIC0820	1144	ST82	2016	ST6594	1617	ST-MPS9700E	2009
SR1FM12	1104	SR101-2	1104	SRIDM	1104	SSIC0840	1114	ST150	1617	ST6600	1617	ST-MPS9700F	2009
SR1FM-16	1114	SR112	1104	SRIDM-1	1104	SSIC0880	1114	ST151	1617	ST6601	2030	ST-MPS9700G	2009
SR1FM16	1114	SR-114	1143	SRIDM-4	1104	SSIC1110	1143	ST152	1617	ST7100	2016	ST-MPS9750D	2023
SR1FM-20	1114	SR114	1104	SRIEM-1	1104	SSIC1160	1114	ST153	1617	ST8014	2023	ST-MPS9750F	2023
SR1FM20	1114	SR-120	1104	SRIEM-2	1104	SSIC1210	1143	ST154	1617	ST8033	2023	ST-MPS9750G	2023
SR-1HM-2	1104	SR120	1104	SRIEM-4	1104	SSIC1220	1144	ST155	1617	ST8034	2023	ST-MPSH10	2058
SR1K	1104	SR-130-1	1104	SR-IK-2	1104	SSIC1240	1114	ST156	1617	ST8035	2023	ST-MPSH24	2016
SR1K-0	1104	SR130-1	2016	SRIK-2	1104	SSIC1280	1114	ST157	1617	ST8036	2023	STR101(ELCOM)	1000
SR1K-1	1104	SR131-1	1104	SRIK-8	1104	SSIC1740	1114	ST160	1617	ST8065	2023	STR103(ELCOM)	1000
SR1K1	1104	SR-132-1	1104	SRK1	1104	SSIC1780	1114	ST161	1617	ST8181	2023	STR201(ELCOM)	1000
SR1K-1K	1104	SR132-1	1141	SRK-2	1104	SSIC1960A	1114	ST162	1617	ST8182	2023	STR202(ELCOM)	1000
SR1K-2	1104	SR135-1	1104	SRN02-100	1114 N1	ST/217/Q	1617	ST163	1617	ST8190	2023	STR203(ELCOM)	1000
SR1K2	1104	SR-136	1104	SRN02-200	1114 N1	ST01	1617	ST175	1617	ST8500	2023	STR403(ELCOM)	1000
SR-1K-2A	1114	SR136	1141	SRN02-400	1114 N1	ST02	1617	ST176	1617	ST8509	2023	STT4451	2017
SR1K-4	1104	SR144	1104	SRP02-100	1114 N2	ST03	1617	ST177	1617	ST8700	2023	STV-3	1104
SR1K4	1104	SR145	1104	SRP02-200	1114 N2	ST04	1617	ST178	1617	ST8704	2023	STX0014	2041
SR1K-8	1104	SR150	1114	SRP02-400	1114 N2	ST05	1617	ST180	1617	ST8705	2023	STX0027	2041
SR1K8	1104	SR-150-1	1104	SRP100A	1104	ST06	1617	ST181	1617	ST8709	2023	STX0029	2027
SR1K-12	1104	SR151	1104	SRP100B	1104	ST07430	2016	ST182	1617	ST27020	2027	STX0030	2027
SR1K-16	1114	SR152	1104	SRP100D	1104	ST2B	1104 N6	ST250	1617	ST47025	2016	STX0032	2041

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
SU2076	2035	SW05SS	1104	SZ-BZ-120	563	T1S95	2009	T106D1SG	1000	T472(SEARS)	2009	T2300PB	1000
SU2077	2035	SW05V	1104	SZC9	562	T1S97	2009	T106D1SH	1000	T475(SEARS)	2023	T2300PC	1000
SU2080	2035	SW0S01	1104	SZ-EQB01-12A	563	T1S98	2016	T106D1SS	1000	T482(SEARS)	2023	T2300PD	1000
SU2081	2035	SW1	1114	SZ-HZ9B3	562	T1SDS1K	1104	T106D2SC	1000	T483(SEARS)	2009	T2300PF	1000
SUC650	561	SW-1-01	1114	SZP-9	562	T1X-M14	2016	T106D2SD	1000	T484(SEARS)	2009	T2301A	1000
SUM6010	561	SW-1-02	1114	SZ-RD6.2E	561	T1X-M15	2016	T106D2SG	1000	T485(SEARS)	2009	T2301B	1000
SUM6011	561	SW-1-03	1104	SZ-RD6.2EB	561	T1XM15	2016	T106D2SH	1000	T-486	2016	T2301D	1000
SUM6020	561	SW-1-04	1104	SZ-RD6.2EB3	561	T1X-M16	2016	T106D2SS	1000	T486(SEARS)	2009	T2301F	1000
SUM6021	561	SW-1-06	1104	SZ-RD9.1FB	562	T1XM17	2016	T106F1	1067	T500	1104	T2301PA	1000
SV-01A	1104	SW-1-08	1114	SZ-RD12EB	563	T2R	038	T106F1SC	1000	T550	1104	T2301PB	1000
SV01A	1104	SW-1-10	1114	SZ-RD12FB	563	T2SA495-O	2023	T106F1SD	1000	T576-1	2016	T2301PB5	1000
SV-01B	1104	SW-1A	1104	SZT8	563	T2SA562-O	2023	T106F1SG	1000	T597-1	2023	T2301PD	1000
SV02	1104	SW1C	1114	SZT9	562	T2SC388A	2009	T106F1SH	1000	T600	1104	T2301PD5	1000
SV02A	1104	SW1D	1114	SZ-UZ6.2B	561	T2SC1894S	2055	T106F1SS	1000	T611-1	2020	T2302A	1000
SV-05	1104	SW-5-00S	1104	SZ-UZ-6.2B	561	T2SC2120Y	2009	T106F2SC	1000	T612-1	2020	T2302B	1000
SV05	1104	SW4001	2401	SZ-UZ-12B	563	T3/2	1104	T106F2SD	1000	T650	1104	T2302C	1000
SV-1	1104	SW4011	2411	SZ-UZP-12B	563	T3B	007	T106F2SG	1000	T-700-709	1123	T2302D	1000
SV-1R	1104	SW4013	2413	SZ-WZ-063	561	T3G	1123	T106F2SH	1000	T700-709	1123	T2302F	1000
SV-2	1102	SW4017	2417	SZ-WZ-063(,WZ-063)		T7	1123	T106F2SS	1000	T-750-713	1123	T2302PA	1000
SV-3	1103	SW4049	2449		561	T8/2	1104	T106Q1	1067	T-750-714	562	T2302PA5	1000
SV-4R	1104	SWC	1114	SZ-WZ-120	563	T8G	1123	T106Y1	1067	T800	1114	T2302PB	1000
SV-6R	1104	SWD	1114	SZ-YZ063	561	T9	1123	T107A1	1067	T800X	1114	T2302PB5	1000
SV-8R	1114	SWO.5A	1104	SZ-YZ-063	561	T9G	1123	T107B1	1067	T-1000	1114	T2302PD	1000
SV-9	562	SWT1032	2023	T01-044	2035	T11	1123	T107C1	1020	T-1000X	1114	T2302PD5	1000
SV14B	1122	SWT1042	2009	T01-101	1617	T12	1123	T107D1	1020	T1000X	1114	T2303F	1000
SV14C	1122	SX-1.5-01	1143	T01-104	1617	T12G	1123	T107F1	1067	T1003-521	2016	T2304B	1000
SV30	1123	SX-1.5-02	1143	T01-105	1617	T13	1123	T107Q1	1067	T1007(ZENITH)	2016	T2305B	1000
SV-31	1123	SX-1.5-04	1144	T-065	1104	T13G	1123	T107Y1	1067	T1008-834	2009	T2305D	1000
SV-31(DIODE)	1123	SX55	2009	T065	1104	T14	1123	T-112	2023	T1010BH	1000	T2306A	1000
SV121	565	SX-58Y	2035	T-075	1104	T14G	1123	T143	1617	T1010BJ	1000	T2306B	1000
SV122	565	SX61M	2023	T075	1104	T16	1122	T151	1122	T1012BH	1000	T2306D	1000
SV135	563	SX623	1104	T-0150	1104	T16X19	1123	T152	1122	T1012BJ	1000	T2310A	1000
SV138	564	SX631	1104	T0150	1104	T17	1123	T153	1122	T1013BH	1000	T2310B	1000
SV1017	563	SX633	1104	T0505BH	1000	T18	1123	T154	1122	T1013BJ	1000	T2310D	1000
SV1020	564	SX641	1102	T0505DH	1000	T19	1123	T155	1122	T1085	1104	T2312A	1000
SV4012	563	SX642	1104	T0509BH	1000	T19G	1123	T156	1102	T1106	2016	T2312B	1000
SV4012A	563	SX643	1102	T0509DH	1000	T20	1123	T157	1617	T1202(GE)	2016	T2312D	1000
SV4015	564	SX644	1103	T0510BH	1000	T20G	1123	T158	2009	T1208	2035	T2312F	1000
SV4015A	564	SX645	1103	T0510DH	1000	T21	1123	T159	1104	T1340A3H	2030	T2313A	1000
SV12388	1104	SX780	1122	T0512BH	1000	T21G	1123	T170	2009	T1340A3I	1617	T2313B	1000
SV12388E	1104	SX3001	2016	T0512DH	1000	T22	1123	T171	2009	T1340A3J	1617	T2313D	1000
SVB10-100	1171	SX3702	2023	T0605BH	1000	T22G	1123	T185	2009	T1340A3K	1617	T2320A	1000
SVB15-100	1171	SX3709	2009	T0605DH	1000	T23	1123	T200	1104	T1340A31	1617	T2320B	1000
SVC625	561	SX3711	2009	T0609BH	1000	T23G	1123	T-203	2016	T1341A3K	2016	T2320C	1000
SVD02Z9.5A	562	SX3819	2035	T0609DH	1000	T24G	1123	T237	1617	T1402	2016	T2320D	1000
SVD0279.5A	562	SX3825	2016	T0610BH	1000	T26G	1123	T-246	2023	T1408	2058	T2320F	1000
SVD0A70	1123	SX3826	2058	T0610BJ	1000	T27G	1123	T247	2030	T1410	2016	T2322A	1000
SVD0A79	1123	SX3827	2016	T0610DH	1000	T-50	1104	T-251	2023	T1413	1617	T2322B	1000
SVD0A90	1123	SY-23	1104	T0610DJ	1000	T76	1617	T-255	2009	T1414	1617	T2322C	1000
SVD1S1717	562	SY23	1103	T0612BJ	1000	T87A	1102	T255	2009	T1415	2009	T2322D	1000
SVD1S1850	1104	SY-24	1104	T0612DJ	1000	T-100	1104	T256	2009	T1416	2009	T2322F	1000
SVD-1S1850R	1104	SY24	1103	T0805BH	1000	T106A1	1067	T276	2023	T1417	1617	T2323A	1000
SVD1S1850R	1104	SYL128	1123	T0805DH	1000	T106A1SC	1000	T277	2009	T1450	1104	T2323B	1000
SVD10D-1	1104	SYL152	1617	T0809BH	1000	T106A1SD	1000	T-291	2030	T1486	2020	T2323C	1000
SVD12B2B1F-M	1171	SYL1182	1617	T0809DH	1000	T106A1SG	1000	T291	2009	T1487	2020	T2323D	1000
SVD20A70	1123	SYL4131	2016	T0810BH	1000	T106A1SH	1000	T300	1104	T1495	1617	T2323F	1000
SVD20A79	1123	SYL4275	2023	T0810BJ	1000	T106A1SS	1000	T308	2016	T1602	2023	T2327A	1000
SVDAS2HB10	1114	SYL4280	2030	T0810DH	1000	T106A2SC	1000	T327	2009	T1642B	1617	T2327B	1000
SVDMA26-1	1123	SZ090	1617	T0810DJ	1000	T106A2SD	1000	T327-2	2009	T1706	2030	T2327C	1000
SVDMA26-2	1122	SZ4.7	565	T0812BH	1000	T106A2SG	1000	T328	2009	T1706A	2030	T2327D	1000
SVDOA70	1123	SZ5	565	T0812BJ	1000	T106A2SH	1000	T336-2	2030	T1706B	2030	T2327F	1000
SVDOA90	1123	SZ5.1	565	T0812DH	1000	T106A2SS	1000	T-339	2030	T1706C	2030	T2446	1617
SVDS1RB10	1171	SZ6	561	T0812DJ	1000	T106B1	1067	T339	2009	T1746	1617	T2634	2016
SVDS-1S1850	1104	SZ6.2	561	T0813BJ	1000	T106B1SC	1000	T340	2023	T1746A	1617	T2801B	1000
SVM61	561	SZ6.2A	561	T0813DJ	1000	T106B1SD	1000	T342	2009	T1746B	1617	T2802B	1000
SVM601	561	SZ-9	562	T0.8N0.6A00	1067	T106B1SG	1000	T381	2016	T1746C	1617	T2806B	1000
SVM602	561	SZ9	562	T0.8N1A00	1067	T106B1SH	1000	T381(SEARS)	2016	T1748	1617	T2857	2016
SVM605	561	SZ9.1	562	T0.8N2A00	1067	T106B1SS	1000	T386	1617	T1748A	1617	T3530	2016
SVM6010	561	SZ11.0	563	T0.8N3A00	1020	T106B2SC	1000	T386(SEARS)	2016	T1748B	1617	T3536	2016
SW01	563	SZ12	563	T0.8N4A00	1020	T106B2SD	1000	T-399	2009	T1748C	1617	T3539	2016
SW-05	1141	SZ12.0	563	T1-1A6	1617	T106B2SG	1000	T399	2009	T1802	1617	T3565	2009
SW05	1104	SZ15	564	T1G	1123	T106B2SH	1000	T400	1104	T1802A	1617	T-3568	2016
SW-05-005	1104	SZ15.0	564	T1J6G	1104	T106B2SS	1000	T416-16(SEARS)	2009	T1802B	1617	T3568	2016
SW05-005	1104	SZ200	565	T1N300	1020	T106C1	1020	T417	2009	T1804	1617	T3568(RCA)	2016
SW-05-01	1104	SZ200-5	565	T1N400	1020	T106C1SC	1000	T450	1104	T1805	1617	T3570	2023
SW05-01	1104	SZ-200-8	562	T1P29	2020	T106C1SD	1000	T452	2030	T1810	1617	T3601	2009
SW-05-02	1104	SZ200-8	562	T1P29X	2020	T106C1SG	1000	T457-16	2009	T1810B	1617	T3601(RCA)	2016
SW05-02	1104	SZ-200-9	562	T1P31	2020	T106C1SH	1000	T457-16(SEARS)	2009	T1811	2030	T4590	1123
SW-05-A	1104	SZ200-9	562	T1P31A	2020	T106C1SS	1000	T458-16	2009	T1811E	2030	T6000B	1000
SW-05-B	1104	SZ-200-9V	562	T1S14	2035	T106C2SC	1000	T459(SEARS)	2009	T1811G	2030	T6006B	1000
SW-05-C	1114	SZ-200-12	563	T1S-18	2058	T106C2SD	1000	T460	2009	T1909	1617	T7400B1	1801
SW-05-D	1114	SZ200-13	563	T1S18	2058	T106C2SG	1000	T460(SEARS)	2023	T2300A	1000	T7400D1	1801
SW05A	1104	SZ-200-15	564	T1S86	2016	T106C2SH	1000	T461-16	2009	T2300B	1000	T7400D2	1801
SW05B	1104	SZ671-B	563	T1S88	2035	T106C2SS	1000	T461-16(SEARS)	1617	T2300C	1000	T7401B1	1801
SW05C	1114	S7671-G	563	T1S92	2009	T106D1	1020	T462	2009	T2300D	1000	T7401D1	1801
SW05D	1114	SZ961-B	564	T1S93	2023	T106D1SC	1000	T462(SEARS)	2009	T2300F	1000	T7401D2	1801
SW05S	1104	SZA-6	561	T1S94	2016	T106D1SD	1000	T472	2009	T2300PA	1000	T7404B1	1802

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
T7408B1	1822	TA2892	1000	TC5T0388A0	2009	TCG123A	1617	TCG5017A	562	TD3400A	1801	TE1097	1104
T7408D1	1822	TA2911	2020	TC10LB2	1067	TCG123AP	2009	TCG5018A	562	TD3400AP	1801	T-E1098	1122
T7408D2	1822	TA6200	2030	TC50	1141	TCG125	1114	TCG5021A	563	TD3400P	1801	TE1098	1123
T7490B1	1808	TA7137	2020	TC100	1143	TCG128	2030	TCG5024A	564	TD3401A	1801	T-E1102	1104
T7490D1	1808	TA7156	2020	TC106A1	1067	TCG130	2041	TCG5069A	565	TD3401AP	1801	T-E1102A	1104
T7490D2	1808	TA7199	2041	TC106A2	1067	TCG132	2035	TCG5070A	561	TD3404A	1802	T-E1105	1123
T9011A1C	2009	TA7200	2041	TC106A3	1067	TCG133	2035	TCG5073A	562	TD3404AP	1802	TE1105	1123
T9011A1G	2009	TA7201	2041	TC106A4	1067	TCG135A	565	TCG5304	1173	TD3447A	1805	T-E1106	563
T9011AZ	2009	TA7202	2041	TC106B	1067	TCG137A	561	TCG5400	1067	TD3447AP	1805	T-E1108	1101
T9011EF	2016	TA7205	705	TC106B1	1067	TCG139A	562	TCG5401	1067	TD3490A	1808	TE1108	1104
T9011G	2016	TA7205A	705	TC106B2	1067	TCG141A	563	TCG5402	1067	TD3490AP	1808	T-E1116	1123
T9011G(CD)	2009	TA7205AP	705	TC106B3	1067	TCG142A	563	TCG5403	1067	TD3490P	1808	T-E1118	1122
T9011G(EF)	2009	TA7205AT	705	TC106B4	1067	TCG145A	564	TCG5404	1067	TD4003	1020	T-E1119	1122
T9011GEF	2016	TA-7205P	705	TC106C1	1020	TCG152	2020	TCG5405	1020	TD81515	1122	T-E1121	1122
T9011H	2016	TA7205P	705	TC106C2	1020	TCG153	2027	TCG5408	1067	TD81518	1122	T-E1122	1114
T9011H(EF)	2009	TA7262	2020	TC106C3	1020	TCG156	1114	TCG5409	1020	TD960016-1M	1122	T-E1124	1104
T9011I(EF)	2009	TA7363	2020	TC106C4	1020	TCG159	2023	TCG5411	1067	TD3214739	562	T-E1127	1114
T9011J(GH)	2009	TA7500	1000	TC106D1	1020	TCG159MCP	2009&23	TCG5412	1067	TD3214742	563	T-E1133	1104
T9016F	2016	TA7501	1000	TC106D2	1020	TCG161	2016	TCG5413	1067	TD3214744	564	T-E1138	1104
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TIS93-V	2023
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TIS93M-BLU	2023
TIS93M-GRN	2023
TIS93M-VIO	2023
TIS93M-YEL	2023
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TIS94(XSTR)	2009
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TIX-M14	2016
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TIXS31	2016
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TN2SC2785	2009
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TNJ1034	2016
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TR0055	2023
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TR-1R33	2009
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TR2SA763	2023
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TR-2SC373	2009
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TR-5R35	1617	TR271TR26	2041	TR8034	2009	TRO10602-1	2009	TV-7	2016	TV68	2009	TV24436	2016
TR-5R38	1617	TR302	1617	TR-8035	2009	TRPLC711	2016	TV7	2009	TV-73	2017	TV24437	2016
TR5S	565	TR501	1617	TR8035	2009	TRR6	561	TV8	1114	TV74	2017	TV24438	2016
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TR-8R35	1617	TR1007	2041	TR8039	2009	TS05	1104	TV-16	2016	TV83	2035	TV24573	2016
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TR-9SA	562	TR1030-1	2023	TR-8043	2016	TS2A	1104	TV18	2016	TV-92	2009	TV24651	1141
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TR23	2030	TR 1037-3	2017	TR310249	2016	TS2906	2023	TV-34	2009	TV-125	2055	TV242248	1104
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TR-25	2030	TR1039-4	2041	TR320020	1104	TSB245	1104	TV36	2009	TV2419	1104	TVC6	1101
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VM30242	1617	(,2SA1015(Y)	2023	(,2SC1815(Y)	2009	VZ-052E	565	W09C	1104	WA-052	565	WB-088C	562
VM-PH9D522/1	1104	VS2SA1015Y/1E		VS2SC1815OW-1	2009	VZ-061A	561	W1-050	565	WA-052A	565	WB-088D	562
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VMPH11D522-1	1104	VS2SA1015Y/2E	2023	VS2SC1815YW-1		VZ-061C	561	W1-061	561	WA-052C	565	WB-090A	562
VM-PH90522/1	1104	VS2SA1015YW-1	2023	(,2SC1815(GR	2009	VZ-061D	561	W1-063	561	WA-052D	565	WB-090B	562
VM-TC02P11/2	1104	VS2SB324	1617	VS2SC1815YW-1		VZ-061E	561	W1-065	561	WA-061	561	WB-090C	562
VM-TC0.2P11/2	1104	VS-2SC206	2016	(,2SC1815(Y)	2009	VZ-063A	561	W1-088	562	WA-061A	561	WB-090D	562
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VO-6B	1144	VS2SC371-R-1	2009	VS2SC2002-K1A	2009	VZ-085E	562	W1P	2035	WA-065A	561	WB-094C	562
VO-6C	1104	VS2SC372-0/1E	2009	VS2SC2002-K1A		VZ-090A	562	W1R	1122	WA-065B	561	WB-094D	562
VO6C	1104	VS2SC372-Y/1E	2009	(,2SC2002(K)	2009	VZ-090B	562	W1R(SCR)	1067	WA-065C	561	WB-115	563
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VR15	564	VS-2SC563	2016	VS-FR1P	1104	VZ120CH	563	W8	2016	WA-115	563	WC-061A	561
VR15A	564	VS-2SC645	2016	VSFR1P	1104	VZ-120D	563	W8-050	565	WA-115A	563	WC-061B	561
VR15B	564	VS-2SC645A	2016	VS-FR-1U	1104	VZ-120E	563	W8-052	565	WA-115B	563	WC-061C	561
VS-0A70	1123	VS2SC645A	1617	VS-FT-1N	1104	VZ-145A	564	W8-061	561	WA-115C	563	WC-061D	561
VS-1	1104	VS-2SC645B	2016	VSFT1N	1104	VZ-145B	564	W8-063	561	WA-115D	563	WC-063	561
VS1	1104	VS-2SC645C	2016	VSG-20024	1104	VZ-145C	564	W8-065	561	WA-120	563	WC-063A	561
VS2SA495-0/1E	2023	VS-2SC683	2016	VSH200A	1101	VZ-145D	564	W8-088	562	WA-120A	563	WC-063B	561
VS2SA495-O/-1	2023	VS-2SC683Y	2016	VSH202A	1122	VZ-145E	564	W8-090	562	WA-120B	563	WC-063C	561
VS2SA495-O/1E	2023	VS-2SC684	2016	VSH212A	1122	VZ-150A	564	W8-092	562	WA-120C	563	WC-063D	561
VS2SA495-Y/1E	2023	VS2SC684	2016	VSH222A	1122	VZ-150B	564	W8-094	562	WA-120D	563	WC-065	561
VS2SA562-0/1E	2023	VS-2SC687	2041	VSH242A	1122	VZ-150C	564	W8-115	563	WA-150	564	WC-065A	561
VS2SA562-O/1E	2023	VS2SC717///-1	2016	VSH252A	1122	VZ150CH	564	W8-120	563	WA-150A	564	WC-065B	561
VS2SA562-O/1E(,2SA562		VS2SC732-VIF	2009	VSK120	1101	VZ-150D	564	W8-150	564	WA-150B	564	WC-065C	561
(O))	2023	VS2SC733B-1	2016	VSK130	1101	VZ-150E	564	W9-050	565	WA-150C	564	WC-065D	561
VS2SA562-O/1E		VS2SC735Y-1	2009	VSK140	1101	W/6A	1104	W9-061	561	WA-150D	564	WC-088	562
(,2SA562T(O)	2023	VS-2SC762	2016	VSK320	1114	W0005M	1173	W9-063	561	WA-161D	561	WC-088A	562
VS2SA562-Q/1E	2023	VS2SC784R1F	2058	VSK330	1114	W-005	1171	W9-065	561	WB-050	565	WC-088B	562
VS2SA562-Q/1E		VS2SC900U-1	2016	VSK340	1114	W005	1173	W9-088	562	WB-050A	565	WC-088C	562
(,2SA562T(Q)	2023	VS2SC945AP/-1	2009	VS-MA102	1104	W005L	1173	W9-090	562	WB-050B	565	WC-090	562
VS2SA562-Y/1E	2023	VS2SC945AQ/-1	2009	VSOA70	1123	W005M	1173	W9-092	562	WB-050C	565	WC-090A	562
VS2SA562TO/-1	2023	VS2SC945LK-1	2009	VS-PC02P11/2	1104	W0-6A	1122	W9-094	562	WB-050D	565	WC-090B	562
VS2SA562T-O/1E	2023	VS2SC945LP-1	2009	VSPH9D522/1	1104	W0-6B	1102	W9-115	563	WB-052	565	WC-090C	562
VS2SA562T-Q/1E	2023	VS2SC1166-O-1	2009	VSS6142GLB1E	1020	W0-61	561	W9-120	563	WB-052A	565	WC-090D	562
VS2SA673-B/1E	2023	VS2SC1166Y-1	2009	VS-5D1	1104	W01	1173	W9-150	564	WB-052B	565	WC-092	562
VS2SA673-C/1A	2023	VS2SC1172-/1E	2055	VS-SD1B	1114	W01L	1173	W10	1617	WB-052C	565	WC-092A	562
VS2SA673-C/1E	2023	VS2SC1174-1E	2055	VSSD1B	1104	W01M	1173	W14	2030	WB-052D	565	WC-092B	562
VS2SA673-C/1E(,2SA673		VS2SC1213-C/1A	2009	VS-SD-1Z	1104	W02	1173	W16	2041	WB-061	561	WC-092C	562
(C))	2023	VS2SC1213AC/1A	2009	VSSD1Z	1104	W02L	1173	W18	2020	WB-061A	561	WC-092D	562
VS2SA673-C/1E		VS2SC1213AC1A	2009	VS-SD-13	1114	W02M	1173	W19	2027	WB-061B	561	WC-094	562
(,2SA673A(C)	2023	VS2SC1335D/-1	2016	VS-TC0-2P11/2	1104	W03A	1104	W20	1617	WB-061C	561	WC-094A	562
VS2SA673A-B/1E	2023	VS2SC1335D/1	2016	VS-TC02P11/2	1104	W03B	1102	W21	2023	WB-061D	561	WC-094B	562
VS2SA673A-C/1E	2023	VS2SC1335D/-1		VSTC02P11/2	1104	W03BTA	1104	W23	2016	WB-063	561	WC-094C	562
VS2SA733AQ/-1	2023	(,2SC1335(D)	2016	VS-TC0.2P11/2	1101	W03C	1104	W24	1617	WB-063A	561	WC-094D	562
VS2SA844-D/-1	2023	VS2SC1335D/-1E	2016	VX3375	2017	W04L	1173	W29	2016	WB-063B	561	WC-88D	562
VS2SA844-D/-2	2023	VS2SC1627A	2030	VX3733	2020	W04M	1173	W103-254	1104	WB-063C	561	WC-115	563
VS2SA854-Q/1E	2023	VS2SC1627Y	2030	VZ-050A	565	W06-A	1104	W106A1	1067	WB-063D	561	WC-115A	563
VS2SA854-Q/1E(,2SA854		VS2SC1674L/-1	2016	VZ-050B	565	W06-B	1104	W106B1	1067	WB-065	561	WC-115B	563
(Q))	2023	VS2SC1675M-1	2009	VZ-050C	565	W-06A	1104	W106C1	1020	WB-065A	561	WC-115C	563
VS2SA854-Q/1E		VS2SC1681G/1E	2016	VZ-050D	565	W06A	1104	W106Y1	1067	WB-065B	561	WC-115D	563
(,25A854Q)	2023	VS2SC1741-1	2009	VZ-050E	565	W06A-Z	1104	W110	1173	WB-065C	561	WC-120	563
VS2SA950-Y/1E	2023	VS2SC1815GW-1	2009	VZ-052A	565	W06B	1102	WA-050	565	WB-065D	561	WC120	1104
VS2SA1015G/1E	2023	VS2SC1815GW-1		VZ-052B	565	W06C	1104	WA-050A	565	WB-088	562	WC-120A	563
VS2SA1015Y/1E	2023	(,2SC1815(GR	2009	VZ-052C	565	W09A	1104	WA-050B	565	WB-088A	562	WC-120B	563

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WC-120C	563	WD-150B	564	WEP152/552	1104	WEP773	2009	WEP2119	1723	WF-088B	562	WG-115A	563
WC-120D	563	WD-150C	564	WEP154	1101	WEP780	2020	WEP2119/955M	1723	WF-088C	562	WG-115B	563
WC-150	564	WD-150D	564	WEP155	1104	WEP780/291	2020	WEP2150	703	WF-088D	562	WG-115C	563
WC-150A	564	WD1012	1123	WEP156	1102	WEP784	2058	WEP2150/1232	703	WF-090	562	WG-115D	563
WC-150B	564	WE-050	565	WEP157	1103	WEP802	2035	WEP2272	2401	WF-090A	562	WG-120	563
WC-150C	564	WE-050A	565	WEP158	1104	WEP802/132	2035	WEP2272/4001B	2401	WF-090B	562	WG-120A	563
WC-150D	564	WE-050B	565	WEP158/116	1104	WEP828	2009	WEP2331	1740	WF-090C	562	WG-120B	563
WC14020	1104	WE-050C	565	WEP158A	1114	WEP829	2009	WEP2331/923D	1740	WF-090D	562	WG-120C	563
WC14027	1104	WE-050D	565	WEP159	1114	WEP838	2009	WEP3023	2020	WF-092	562	WG-120D	563
WC19865	1104	WE-052	565	WEP160	1114	WEP881	2020	WEP4000	1141	WF-092A	562	WG-150	564
WD001	1102	WE-052A	565	WEP164	1101	WEP906	2009	WEP4000/5800	1141	WF-092B	562	WG-150A	564
WD002	1102	WE-052B	565	WEP164/114	1101	WEP906/233	2009	WEP4001	1143	WF-092C	562	WG-150B	564
WD003	1104	WE-052C	565	WEP165A	1101	WEP907	2023	WEP4001/5801	1143	WF-092D	562	WG-150C	564
WD004	1102	WE-052D	565	WEP166	1101	WEP907/234	2023	WEP4002	1143	WF-094	562	WG-150D	564
WD005	1102	WE-061A	561	WEP166/115	1101	WEP908	2020	WEP4002/5802	1143	WF-094A	562	WG-599	1122
WD006	1102	WE-061B	561	WEP167	1104 N5	WEP908/241	2020	WEP4004	1144	WF-094B	562	WG-713	1122
WD007	1102	WE-061C	561	WEP168	1101	WEP910	2009	WEP4004/5804	1144	WF-094C	562	WG713	1122
WD008	1102	WE-061D	561	WEP168/120	1101	WEP910/289	2009	WEP4008/5809	1114	WF-094D	562	WG-713C	1122
WD009	1102	WE-063	561	WEP169	1104 N7	WEP911	2023	WEP4011B	2411	WF1	2035	WG714	1122
WD010	1102	WE-063A	561	WEP170	1114	WEP911/290	2023	WEP4011B/4011B	2411	WF2	2035	WG1010	1122
WD011	1102	WE-063B	561	WEP170/125	1114	WEP911/290A	2023	WEP4013B	2413	WF-100B	563	WG-1010A	1122
WD012	1102	WE-063C	561	WEP173	1104	WEP920	2035	WEP4013B/4013B	2413	WF-100C	563	WG1010A	1122
WD013	1103	WE-063D	561	WEP175	1104	WEP920/312	2035	WEP4066B/4066B	2466	WF-100D	563	WG1010B	1122
WD014	1104	WE-065	561	WEP177	1122	WEP924	2009	WEP5457	1020	WF-115	563	WG-1012	1122
WD015	1103	WE-065A	561	WEP243	2030	WEP924/319	2009	WEP5457/5457	1020	WF-115A	563	WG1012	1122
WD-050	565	WE-065B	561	WEP261/261	2068	WEP925	1122	WEP6097	1000	WF-115B	563	WG1014A	1122
WD-050A	565	WE-065C	561	WEP371	2009	WEP925/519	1122	WEP6097/5633	1000	WF-115C	563	WG1021	1122
WD-050C	565	WE-065D	561	WEP372	2009	WEP933	007	WEP6240	1067	WF-115D	563	WGOA-90	1122
WD-052	565	WE-088	562	WEP373	2009	WEP933/941M	007	WEP6240/5452	1067	WF-120	563	WH-061	561
WD-052A	565	WE-088A	562	WEP380	2009	WEP949	705	WEP6242	1067	WF-120A	563	WH-061A	561
WD-052B	565	WE-088B	562	WEP394	2009	WEP949/1155	705	WEP6242/5454	1067	WF-120B	563	WH-061B	561
WD-052C	565	WE-088C	562	WEP403	2009	WEP950	2417	WEP6243	1067	WF-120C	563	WH-061C	561
WD-052D	565	WE-088D	562	WEP454	2009	WEP950/4017	2417	WEP6243/5455	1067	WF-120D	563	WH-061D	561
WD-061	561	WE-090	562	WEP458	2009	WEP953	1114	WEP6244	1020	WF-150	564	WH-063	561
WD-061A	561	WE-090A	562	WEP460	2009	WEP954	1114	WEP6244/5456	1020	WF-150A	564	WH-063A	561
WD-061B	561	WE-090B	562	WEP495	2023	WEP956	2058	WEP6304	1101	WF-150B	564	WH-063B	561
WD-061C	561	WE-090C	562	WEP535	2016	WEP956/229	2058	WEP6304/507	1101	WF-150C	564	WH-063C	561
WD-061D	561	WE-090D	562	WEP535/107	2016	WEP966L/966	1771	WEP6320	1067	WF-150D	564	WH-063D	561
WD-063	561	WE-092	562	WEP536	2009	WEP1050	1171	WEP6320/5400	1067	WF-260	562	WH-065	561
WD-063A	561	WE-092A	562	WEP537	2009	WEP1051	1171	WEP6321	1067	WG-050A	565	WH-065A	561
WD-063B	561	WE-092B	562	WEP538	1617	WEP1051/166	1171	WEP6321/5401	1067	WG-050B	565	WH-065B	561
WD-063C	561	WE-092C	562	WEP564	2023	WEP1053	1173	WEP6322	1067	WG-050C	565	WH-065C	561
WD-063D	561	WE-092D	562	WEP568	2016	WEP1053/168	1173	WEP6322/5402	1067	WG-050D	565	WH-065D	561
WD-065	561	WE-094	562	WEP602	565	WEP1060	1122	WEP6323	1067	WG-052	565	WH-088	562
WD-065A	561	WE-094A	562	WEP604	563	WEP1061	1122	WEP6323/5403	1067	WG-052A	565	WH-088A	562
WD-065B	561	WE-094B	562	WEP607	564	WEP1061/178MP	1122	WEP6324	1067	WG-052B	565	WH-088B	562
WD-065C	561	WE-094C	562	WEP633	2009	WEP1062	1122	WEP6324/5404	1067	WG-052C	565	WH-088C	562
WD-065D	561	WE-094D	562	WEP634	2009	WEP1062/177	1122	WEP7400	1801	WG-052D	565	WH-088D	562
WD-088	562	WE-115	563	WEP644	2016	WEP1065	1185	WEP7400/7400	1801	WG-061	561	WH-090	562
WD-088A	562	WE-115A	563	WEP704	2041	WEP1082	1104	WEP7401	1801	WG-061A	561	WH-090A	562
WD-088B	562	WE-115B	563	WEP704/130	2041	WEP1083	1104	WEP7401/7401	1801	WG-061B	561	WH-090B	562
WD-088C	562	WE-115C	563	WEP705	1617	WEP1102	565	WEP7408	1822	WG-061C	561	WH-090C	562
WD-088D	562	WE-115D	563	WEP706	1617	WEP1102/5069	565	WEP7408/7408	1822	WG-061D	561	WH-090D	562
WD-090	562	WE-120	563	WEP708	2058	WEP1103	565	WEP7490	1808	WG-063	561	WH-092	562
WD-090A	562	WE-120A	563	WEP709	2058	WEP1103/135	565	WEP7490/7490	1808	WG-063A	561	WH-092A	562
WD-090B	562	WE-120B	563	WEP710	2009	WEP1109	562	WEPS1000-1	1114	WG-063B	561	WH-092B	562
WD-090C	562	WE-120C	563	WEP716	2023	WEP1109/139	562	WEPSD5	1101	WG-063C	561	WH-092C	562
WD-090D	562	WE-120D	563	WEP717	2023	WEP1112	563	WEPSH3	1104 N5	WG-063D	561	WH-092D	562
WD-092	562	WE-150	564	WEP719	2058	WEP1112/142	563	WEPSH4	1101	WG-065	561	WH-094	562
WD-092A	562	WE-150A	564	WEP720	2058	WEP1114	564	WEPSH5	1104 N7	WG-065A	561	WH-094A	562
WD-092B	562	WE-150B	564	WEP723	1617	WEP1114/145	564	WF-050	565	WG-065B	561	WH-094B	562
WD-092C	562	WE-150C	564	WEP724	1617	WEP1153	561	WF-050A	565	WG-065C	561	WH-094C	562
WD-092D	562	WE-150D	564	WEP728	1617	WEP1153/5070	561	WF-050B	565	WG-065D	561	WH-094D	562
WD-094	562	WEO704/130	2041	WEP729	1617	WEP1154	561	WF-050C	565	WG-088	562	WH-115	563
WD-094A	562	WEP50	2009	WEP735	1617	WEP1154/137	561	WF-050D	565	WG-088A	562	WH-115A	563
WD-094B	562	WEP52	2023	WEP735A	2009	WEP1155	562	WF-052	565	WG-088B	562	WH-115B	563
WD-094C	562	WEP55	2016	WEP736	2009	WEP1155/5073	562	WF-052A	565	WG-088C	562	WH-115C	563
WD-094D	562	WEP56	2016	WEP736/123A	1617	WEP1157	563	WF-052B	565	WG-088D	562	WH-115D	563
WD1	1123	WEP56/108	2016	WEP740A	2055	WEP1157/141	563	WF-052C	565	WG-090	562	WH-120	563
WD3	1123	WEP57	2023	WEP740A/164	2055	WEP1409	565	WF-052D	565	WG-090A	562	WH-120A	563
WD4	1122	WEP58	1617	WEP740B	2055	WEP1409/5009	565	WF-061	564	WG-090B	562	WH-120B	563
WD11	1101	WEP58/123	1617	WEP740B/165	2055	WEP1411	565	WF-061A	564	WG-090C	562	WH-120C	563
WD12	1101	WEP59	2030	WEP745	2020	WEP1411/5010	565	WF-061B	564	WG-090D	562	WH-120D	563
WD22	1101	WEP59/128	2030	WEP745/152	2020	WEP1414	561	WF-061C	564	WG-092	562	WH-150	564
WD61	1104	WEP62	2023	WEP746	2027	WEP1414/5013	561	WF-061D	564	WG-092A	562	WH-150A	564
WD-115	563	WEP62/159	2023	WEP746/153	2027	WEP1418	562	WF-063	564	WG-092B	562	WH-150B	564
WD-115A	563	WEP63	2016	WEP751	2017	WEP1418/5017	562	WF-063A	564	WG-092C	562	WH-150C	564
WD-115B	563	WEP63/161	2016	WEP751/186	2017	WEP1419	562	WF-063B	564	WG-092D	562	WH-150D	564
WD-115C	563	WEP66	2016	WEP756	2020	WEP1419/5018	562	WF-063C	564	WG-094	562	WH1012	1122
WD-115D	563	WEP66/199	2016	WEP756/196	2020	WEP1423	563	WF-063D	564	WG-094A	562	WI-050	565
WD-120	563	WEP103	561	WEP760	2043	WEP1423/5021	563	WF-065	564	WG-094B	562	WI-050A	565
WD-120A	563	WEP104	562	WEP760/219	2043	WEP1426	564	WF-065A	564	WG-094C	562	WI-050B	565
WD-120B	563	WEP105	563	WEP764	2055	WEP1426/5024	564	WF-065B	564	WG-094D	562	WI-050C	565
WD-120C	563	WEP134	1123	WEP764/238	2055	WEP1717	2016	WF-065C	564	WG0A-90	1122	WI-050D	565
WD-120D	563	WEP134/109	1123	WEP769	2043	WEP1945	2009	WF-065D	564	WG-10AS	1122	WI-052	565
WD-150	564	WEP138	1123	WEP769/281	2043	WEP2053	038	WF-088	562	WG91	562	WI-052A	565
WD-150A	564	WEP152	1104	WEP772	2058	WEP2053/778	038	WF-088A	562	WG-115	563	WI-052B	565

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WI-052C	565	WJ-092	562	WL01F	1173	WS300	1122	X0103BD	1067	X340400040	1171	XZ-152	564
WI-052D	565	WJ-092A	562	WL02F	1173	WSD002C	1122	X0103DA	1020	X400141640	2506	XZ152	564
WI-061	561	WJ-092B	562	WL02M	1173	WT16X8	1101	X0103DB	1020	X400141640(,D4164C-2)		Y0-6A	1104
WI-061A	561	WJ-092C	562	WL04F	1173	WT16X9	1101	X0103DD	1020		2506	Y100	1101
WI-061B	561	WJ-092D	562	WL04M	1173	WU-056D	561	X0301BG	1067	X440029020	1711	Y29979	2016
WI-061C	561	WJ-094	562	WL-050	565	WU-065D	561	X0301DG	1020	X440055560	1728	Y56601-08	1617
WI-061D	561	WJ-094A	562	WL-050A	565	WX-090	562	X0303BG	1067	X440058120	1771	Y56601-50	2023
WI-063	561	WJ-094B	562	WL-050B	565	WX090	562	X0303DG	1020	X440063050	1770	Y1343773-1	2016
WI-063A	561	WJ-094C	562	WL-050C	565	WX6	1123	X0304BG	1067	X440070490	2449	Y13175962	1122
WI-063B	561	WJ-094D	562	WL-050D	565	WZ09	562	X0304DG	1020	X440070490		Y13189245	1067
WI-063C	561	WJ-115	563	WL-052	565	WZ-046	565	X0403BE	1067	(,MC14049UB)	2449	Y13238241	2009
WI-063D	561	WJ-115A	563	WL-052A	565	WZ046	565	X0403BF	1067	X440140050	1770	Y13290333	2016
WI-065	561	WJ-115B	563	WL-052B	565	WZ-048	565	X0403DE	1020	X440160660	2466	Y13297762	2023
WI-065A	561	WJ-115C	563	WL-052C	565	WZ048	565	X0403DF	1020	X440751880	2520	Y13297763	2023
WI-065B	561	WJ-115D	563	WL-052D	565	WZ-049	565	X0404BE	1067	X440751890	2521	Y13298671	1122
WI-065C	561	WJ-120	563	WL-061	561	WZ-050	565	X0404BF	1067	XA121	1104	Y13310137	2058
WI-065D	561	WJ-120A	563	WL-061A	561	WZ050	565	X0404DE	1020	XA494	2023	Y13310138	2016
WI-088	562	WJ-120B	563	WL-061B	561	WZ-052	565	X0404DF	1067	XA-495	2023	Y13310139	2023
WI-088A	562	WJ-120C	563	WL-061C	561	WZ052	565	X0609BE	1067	XA495	2023	Y13310147	1104
WI-088B	562	WJ-120D	563	WL-061D	561	WZ-061	561	X0609BF	1067	XA495(C)	2023	Y13331813	2055
WI-088C	562	WJ-150	564	WL-063	561	WZ061	561	X0609DE	1020	XA495AC	2023	Y13358072	1617
WI-088D	562	WJ-150A	564	WL-063A	561	WZ-063	561	X0609DF	1020	XA495C	2023	Y13390991	2020
WI-090	562	WJ-150B	564	WL-063B	561	WZ063	561	X0709BG	1067	XAA104	1801	Y13391001	2027
WI-090A	562	WJ-150C	564	WL-063C	561	WZ065	561	X0709DG	1020	XAA109	1808	Y13398601	1104
WI-090B	562	WJ-150D	564	WL-063D	561	WZ-085	562	X5M6	1104	XAN3064	075	Y13399701	2023
WI-090C	562	WK-050	565	WL-065	561	WZ085	562	X10G1829	1617	XB12	2030	Y13411222	1104
WI-090D	562	WK-050A	565	WL-065A	561	WZ-088	562	X16	1123	XB152	564	Y13417381	2041
WI-092	562	WK-050B	565	WL-065B	561	WZ088	562	X16A545-7	1617	XB401	2017	Y13430051	2020
WI-092A	562	WK-050C	565	WL-065C	561	WZ-090	562	X16A1938	1617	XB404	2020	Y13432501	1122
WI-092B	562	WK-050D	565	WL-065D	561	WZ090	562	X16E3860	1617	XB408	2020	Y13437771	1104
WI-092C	562	WK-052	565	WL-088	562	WZ-092	562	X16E3960	1617	XB476	2020	Y130213003	2009
WI-092D	562	WK-052A	565	WL-088A	562	WZ092	562	X16N1485	1617	XC371	2016	Y130213003(,2SC458D)	
WI-094	562	WK-052B	565	WL-088B	562	WZ-094	562	X18	1123	XC372	2009		2009
WI-094A	562	WK-052C	565	WL-088C	562	WZ094	562	X32A1389	2023	XC373	2009	Y130213004(,2SC458K)	
WI-094B	562	WK-052D	565	WL-088D	562	WZ9.1	562	X32C4211	2009	XC374	2009		2009
WI-094C	562	WK-061	561	WL-090	562	WZ12	563	X32C4296	2009	XC723	2041	Y130213004(,2SC458L)	
WI-094D	562	WK-061A	561	WL-090A	562	WZ15	564	X32C5099	2030	XC-5491	035		2009
WI-115	563	WK-061B	561	WL-090B	562	WZ-90	562	X32C5111	2030	XD2A	1123	Y130213005	2009
WI-115A	563	WK-061C	561	WL-090C	562	WZ-115	563	X32C5198	2009	XG30	1617	Y130213005(,2SC1213D)	
WI-115B	563	WK-061D	561	WL-090D	562	WZ115	563	X32C6105	2009	XI-548	2041		2009
WI-115C	563	WK-063	561	WL-092	562	WZ-120	563	X32D5422	2009	XR1488N	2520	Y130213007	2023
WI-115D	563	WK-063A	561	WL-092A	562	WZ120	563	X32L4296	2009	XR1488P	2520	Y130213007(,2SA673C)	
WI-120	563	WK-063B	561	WL-092B	562	WZ-120(AU)	563	X32M5026	2009	XR1489AN	2521		2023
WI-120A	563	WK-063C	561	WL-092C	562	WZ-145	564	X32P5660	2016	XS1	2016	Y130213041	1122
WI-120B	563	WK-063D	561	WL-092D	562	WZ145	564	X34E1226	2023	XS2	2016	Y130213043	1104
WI-120C	563	WK-065	561	WL-094	562	WZ-150	564	X34E2111	2009	XS3	2016	Y130213045	1104
WI-120D	563	WK-065A	561	WL-094A	562	WZ150	564	X44C358	2020	XS4	2016	Y131759610	1122
WI-150	564	WK-065B	561	WL-094B	562	WZ522	565	X45C359	2027	XS6	2016	Y132929871	1122
WI-150A	564	WK-065C	561	WL-094C	562	WZ529	562	X4604	1104	XS9.1B	562	Y133101310	2009
WI-150B	564	WK-065D	561	WL-094D	562	WZ531	562	X-23305-3	1144	XS10	1104	Y133101321	2016
WI-150C	564	WK-088	562	WL-115	563	WZ532	562	X-23305-4	1144	XS14	2016	Y133101322	2009
WI-150D	564	WK-088A	562	WL-115A	563	WZ535	563	X330302	563	XS15	2016	Y133101328	2009
WJ-050	565	WK-088B	562	WL-115B	563	WZ538	564	X300073360	2023	XS16	1104	Y133101363	2009
WJ-050A	565	WK-088C	562	WL-115C	563	WZ904	565	X300101502	2023	XS16A	1104	Y133101411	1122
WJ-050B	565	WK-088D	562	WL-115D	563	WZ905	565	X300101502		XS17	1104	Y133101412	1123
WJ-050C	565	WK-090	562	WL-120	563	WZ907	561	(,2SA1015Y)	2023	XS17A	1104	Y133101413	1122
WJ-050D	565	WK-090A	562	WL-120A	563	WZ912	562	X300115080	2023	XS18	1104	Y133101414	565
WJ-052	565	WK-090B	562	WL-120B	563	WZ913	562	X300117500	2023	XS19	2023	Y133101417	1122
WJ-052A	565	WK-090C	562	WL-120C	563	WZ914	562	X300117593	2023	XS21	1617	Y133101419	1104
WJ-052B	565	WK-090D	562	WL-120D	563	WZ916	563	X302094530	2009	XS22	1101	Y133101440	1104
WJ-052C	565	WK-092	562	WO-005	1173	WZ917	563	X302181502	2009	XS22(RECT.)	1104	Y440800601	1251
WJ-052D	565	WK-092A	562	WO-6A	1104	WZ920	564	X302181502(,2SC1815Y)		XS23	1104	Y440801101	1251
WJ-061	561	WK-092B	562	WO-6B	1102	X0069CE	2401		2009	XS23A	1104	Y441800102	1251
WJ-061A	561	WK-092C	562	WO6C	1104	X0100AA	1067	X302278500	2009	XS30	2030	YAAD004	1104
WJ-061B	561	WK-092D	562	WR-006	1141	X0100AB	1067	X302278530	2009	XS31	1104	YAAD009	1123
WJ-061C	561	WK-094	562	WR006	1104	X0100BA	1067	X302278593	2009	XS36	2016	YAAD010	1122
WJ-061D	561	WK-094A	562	WR011	1171	X0100BB	1067	X302278594	2009	XS37	2016	YAAD018	1122
WJ-063	561	WK-094B	562	WR-013	1104	X0100CA	1020	X303088000	2020	XS38	2016	YAAD019	1104
WJ-063A	561	WK-094C	562	WR013	1104	X0100CB	1020	X320010070	1122	XS39	2016	YAAD020	1104
WJ-063B	561	WK-094D	562	WR-030	1141	X0100DA	1020	X320010070(,1S2095)		XS40	2016	YAAD022	1104
WJ-063C	561	WK-115	563	WR030	1171	X0100DB	1020		1122	XS40A	1104	YAAN2SC1096K	2017
WJ-063D	561	WK-115A	563	WR-040	1141	X0101BA	1067	X320010079	1122	XT15X3	2016	YAAN2SC1096L	2017
WJ-065	561	WK-115B	563	WR040	1171	X0101BB	1067	X320010080	1122	XU604	1104	YAAN2SC1096N	2017
WJ-065A	561	WK-115C	563	WR1	1114	X0101BD	1067	X320010240	1104	XZ-049	565	YAANZ2S1096	2017
WJ-065B	561	WK-115D	563	WR2	1114	X0101DA	1020	X320010240(,1S5277B)		XZ049	565	YBAD009	1104
WJ-065C	561	WK-120	563	WR100	1104	X0101DB	1020		1104	XZ-051	565	YC02P11/2	1114
WJ-065D	561	WK-120A	563	WR200	1104	X0101DD	1020	X320010380	1104	XZ051	565	YD1121	1122
WJ-088	562	WK-120B	563	WR300	1104	X0102AA	1067	X320010390	1122	XZ062	561	YEAD015	562
WJ-088A	562	WK-120C	563	WR400	1104	X0102AB	1067	X320010450	1104	XZ-070	561	YEAD025	562
WJ-088B	562	WK-120D	563	WRE981	1104	X0102BA	1067	X320010452	1122	XZ-086	562	YEAD030	1104
WJ-088C	562	WK-150	564	WRR1952	1617	X0102BB	1067	X320010460	1122	XZ-090	562	YEAD032	1123
WJ-088D	562	WK-150A	564	WRR1953	1617	X0102CA	1020	X320010480	1122	XZ090	562	YEAD1N60P	1123
WJ-090	562	WK-150B	564	WRR1954	1617	X0102CB	1020	X330000059	565	XZ-092	562	YEADAW01-06	561
WJ-090A	562	WK-150C	564	WRR1955	1144	X0102DA	1020	X330000560	562	XZ092	562	YEAN2SC941	2009
WJ-090B	562	WK-150D	564	WRR1956	1144	X0102DB	1020	X330000582	565	XZ094	562	YR-011	1104
WJ-090C	562	WL005M	1173	WS100	1122	X0103BA	1067	X340040030	1173	XZ-122	563	YR011	1104
WJ-090D	562	WL-01	1173	WS200	1122	X0103BB	1067	X340400030	1173	XZ122	563	YS6-V139-2-2	1123

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
YSG-20024	1104	Z2A150F	564	Z1112	563	ZE7V4	562	ZJ9.1A	562	ZPD5.1	565	ZR829-100	561
YSG-V47-7-51	1101	Z4A6.2	561	Z1112-C	563	ZE9.1	562	ZJ9.1B	562	ZPD6V2	561	ZR829-120	561
YSG-V47-7-51-1	1104	Z4B4.7	565	Z-1112C	563	ZE9.1A	562	ZJ12	563	ZPD6.2	561	ZR1021	1104
YSG-V47-7-51-2	1104	Z4B5.1	565	Z1112C	563	ZE9.1B	562	ZJ12A	563	ZPD9V1	562	ZR1031	1104
YSG-V81-2-3	1122	Z4B6.2	561	Z-1114	564	ZE12	563	ZJ12B	563	ZPD9.1	562	ZR1033	1104
Y5G-V139-2-2	1123	Z4B9.1	562	Z1114	564	ZE12A	563	ZJ13	563	ZPD12	563	ZR1076	1104
YSG-V139-22	1123	Z4B12	563	Z1114-C	564	ZE12B	563	ZJ13A	563	ZPD12V	563	ZS6	561
YZ-047	565	Z4B15	564	Z1202	565	ZE13A	563	ZJ13B	563	ZPD15	564	ZS7	1101
YZ047A	565	Z4K	565	Z1212	563	ZE15	564	ZJ15	564	ZPD15V	564	ZS8	1102
YZ-063	561	Z4MW333	1617	ZA9.1	562	ZE15A	564	ZJ15A	564	ZPY3.9	562	ZS9.1	562
YZ063	561	Z4X5.1A	565	ZA9.1A	562	ZE15B	564	ZJ15B	564	ZPY4.7	565	ZS9.1A	562
Z-00	1101	Z4X5.1B	565	ZA9.1B	562	ZEC4.7	565	ZJ40	2016	ZPY5.1	565	ZS9.1B	562
Z0-12	563	Z4X9.1	562	ZA11	563	ZEC12	563	ZJ252B	1104	ZPY6.2	561	ZS10A	1104
Z0-12A	563	Z4X11	563	ZA12	563	ZEC15	564	ZM4.7	565	ZPY9.1	562	ZS-10B	1104
Z0-12B	563	Z4X12	563	ZA12A	563	ZEN100	2009	ZM4.7A	565	ZPY12	563	ZS10B	1104
Z0302BG	1000	Z4X15	564	ZA12B	563	ZEN102	2009	ZM4.7B	565	ZPY15	564	ZS12	563
Z0302DG	1000	Z4XL6.2	561	ZA15	564	ZEN103	1617	ZM5.1	565	ZQ-6	561	ZS12A	563
Z0305BG	1000	Z4XL6.2B	561	ZA15A	564	ZEN104	2016	ZM5.1A	565	ZQ9.1	562	ZS12B	563
Z0305DG	1000	Z4XL9.1	562	ZA-15B	564	ZEN105	2058	ZM5.1B	565	ZQ9.1A	562	ZS15	564
Z0309BG	1000	Z4XL9.1B	562	ZA15B	564	ZEN107	2023	ZM6.2	561	ZQ9.1B	562	ZS15A	564
Z0309DG	1000	Z4XL12	563	ZA15V	564	ZEN108	2058	ZM6.2A	561	ZQ12	563	ZS15B	564
Z0310BG	1000	Z4XL12B	563	ZB-1	563	ZEN109	2058	ZM6.2B	561	ZQ12A	563	ZS20A	1104
Z0310DG	1000	Z4.7	565	ZB1-6	561	ZEN110	2009	ZM8.7	562	ZQ12B	563	ZS20B	1104
Z0402BE	1000	Z5A6.2	561	ZB1-9	562	ZEN111	1617	ZM8.7A	562	ZQ15	564	ZS21	1104
Z0402BF	1000	Z5B4.7	565	ZB-1-9.5	562	ZEN112	1617	ZM8.7B	562	ZQ15A	564	ZS22	1104
Z0402DE	1000	Z5B5.1	565	ZB1-11	563	ZEN113	2016	ZM9.1	562	ZQ15B	564	ZS23	1104
Z0402DF	1000	Z5B6.2	561	ZB1-12	563	ZEN114	1617	ZM9.1A	562	ZR10	1141	ZS24	1104
Z0405BE	1000	Z5B9.1	562	ZB1-15	564	ZEN115	1617	ZM9.1B	562	ZR11	1143	ZS25	1104
Z0405BF	1000	Z5B12	563	ZB4.7	565	ZEN116	2016	ZM9.1C	562	ZR12	1143	ZS30	1104
Z0405DE	1000	Z5B-15	564	ZB4.7A	565	ZEN117	2016	ZM12	563	ZR13	1144	ZS30A	1104
Z0405DF	1000	Z5B15	564	ZB4.7B	565	ZEN118	2016	ZM12A	563	ZR14	1144	ZS30B	1104
Z0406	565	Z5C4.7	565	ZB5.1	565	ZEN119	2009	ZM12B	563	ZR15	1104	ZS31	1104
Z0408	561	Z5C5.1	565	ZB5.1A	565	ZEN120	2009	ZM12C	563	ZR105793-1	563	ZS31A	1104
Z0409BE	1000	Z5C6.2	561	ZB5.1B	565	ZEN121	2009	ZM15	564	ZR108921-3	564	ZS31B	1104
Z0409BF	1000	Z5C9.1	562	ZB6.2	561	ZEN122	2023	ZM15A	564	ZR60	1104	ZS32	1104
Z0409DE	1000	Z5C12	563	ZB6.2A	561	ZEN123	2035	ZM15B	564	ZR61	1104	ZS32A	1104
Z0409DF	1000	Z5C15	564	ZB6.2B	561	ZEN126	2009	ZM15C	564	ZR62	1104	ZS32B	1104
Z0410BE	1000	Z5D4.7	565	ZB9.1	562	ZEN127	2009	ZMM6.2	561	ZR63	1104	ZS34	1104
Z0410BF	1000	Z5D5.1	565	ZB9.1A	562	ZEN401	1114	ZMM9.1	562	ZR64	1104	ZS34A	1104
Z0410DE	1000	Z5D6.2	561	ZB9.1B	562	ZEN430	1123	ZMM12	563	ZR66	1104	ZS34B	1104
Z0410DF	1000	Z5D9.1	562	ZB12	563	ZEN500	561	ZMM15	564	ZR68	1114	ZS40	1122
Z0412	562	Z5D12	563	ZB12A	563	ZEN502	565	ZMZ205	565	ZR209	562	ZS40A	1101
Z0415	563	Z5D15	564	ZB12B	563	ZEN508	564	ZN7400E	1801	ZR209T1	562	ZS50	1122
Z0418	564	Z5.1	565	ZB13A	564	ZF4.7	565	ZN7400F	1801	ZR209T2	562	ZS51	1102
Z0B4.7	565	Z5.1(500MW)	565	ZB15	564	ZF4.7P	565	ZN7401E	1801	ZR210	562	ZS52	1102
Z0B5.1	565	Z6	561	ZB15A	564	ZF5.1	565	ZN7401F	1801	ZR212	562	ZS53	1103
Z0B6.2	561	Z6.2	561	ZB15B	564	ZF6A	561	ZN7404E	1802	ZR500	1104	ZS61	561
Z0B9.1	562	Z6.2A	561	ZB206	561	ZF6.2	561	ZN7408E	1822	ZR590	1104	ZS70	1104
Z0B12	563	Z6.2B	561	ZB209	562	ZF9.1	562	ZN7408J	1822	ZR590A	1104	ZS71	1104
Z0B15	564	Z6.2C	561	ZB212	563	ZF9.1A	562	ZN7490E	1808	ZR601	1143	ZS72	1104
Z0C4.7	565	Z9	562	ZBI-09	562	ZF9.1B	562	ZN7490F	1808	ZR602	1143	ZS73	1104
Z0C5.1	565	Z9.1	562	ZBI-14	564	ZF12	563	ZN35024712	2027	ZR604	1144	ZS74	1104
Z0C6.2	561	Z9.1A	562	ZC012	563	ZF12A	563	ZO9.1	562	ZR606	1114	ZS74B	1104
Z0C9.1	562	Z9.1B	562	ZC015	564	ZF12B	563	ZO9.1A	562	ZR821-5	561	ZS76	1104
Z0C12	563	Z9.1C	562	ZC1N34A	1123	ZF15	564	ZO9.1B	562	ZR821-10	561	ZS78	1114
Z0C15	564	Z-11	563	ZC1S358S	1122	ZF15A	564	ZO-12	563	ZR821-20	561	ZS78A	1114
Z0D4.7	565	Z-12	563	ZC106	561	ZF15B	564	ZO12	563	ZR821-50	561	ZS78B	1114
Z0D5.1	565	Z12	563	ZC109	562	ZF15.1R	565	ZO-12A	563	ZR821-75	561	ZS90	1102
Z0D6.2	561	Z12(500MW)	563	ZC112	563	ZF-16	564	ZO12A	563	ZR821-100	561	ZS91	1104
Z0D9.1	562	Z12A	563	ZC115	564	ZF16.2	561	ZO-12B	563	ZR821-120	561	ZS92	1102
Z0D12	563	Z12B	563	ZC-140(TRANS)	2020	ZF19.1	562	ZO12B	563	ZR821-150	561	ZS94	1102
Z0D15	564	Z12B(,MZ312B)	563	ZC709	563	ZF24.7R	565	ZO-15	564	ZR823-5	561	ZS100	1104
Z1A4.7	565	Z12C	563	ZC712	563	ZF25.1R	565	ZO15	564	ZR823-10	561	ZS101	1104
Z1B4.7	565	Z12K	563	ZC715	564	ZF26.2	561	ZO-15A	564	ZR823-20	561	ZS102	1102
Z1B5.1	565	Z12.0	563	ZC2800A	1104	ZF29.1	562	ZO15A	564	ZR823-50	561	ZS103	1103
Z1B6.2	561	Z15	564	ZCO12	563	ZF112	563	ZO-15B	564	ZR823-75	561	ZS104	1102
Z1B9.1	562	Z15A	564	ZCOM3679	1104	ZF115	564	ZOB5.1	565	ZR823-100	561	ZS106	1104
Z1B12	563	Z15B	564	ZCOM-5683-0	1104	ZF212	563	ZOB6.2	561	ZR823-120	561	ZS108	1114
Z1B15	564	Z15C	564	ZD009	562	ZF215	564	ZOB12	563	ZR823-150	561	ZS120	1101
Z1C4.7	565	Z15K	564	ZD012	563	ZG100119	564	ZOB15	564	ZR825-5	561	ZS121	1104
Z1C5.1	565	Z15.0	564	ZD-015	564	ZH9.1	562	ZOD6.2	561	ZR825-10	561	ZS122	1122
Z1C5.6	565	Z111Z	563	ZD015	564	ZH9.1A	562	ZOD15	564	ZR825-20	561	ZS123	1122
Z1C6.2	561	Z194	562	ZD-5V	565	ZH9.1B	562	ZP4.7	565	ZR825-50	561	ZS124	1122
Z1C9.1	562	Z714	562	ZD5.1	561	ZH11	563	ZP5.1	565	ZR825-75	561	ZS142	1122
Z1C12	563	Z801	561	ZD5.1A	565	ZH11A	563	ZP6.2	561	ZR825-100	561	ZS174	1104
Z1C15	564	Z-963B	563	ZD6.2	561	ZH11B	563	ZP9.1	562	ZR825-120	561	ZS270	1141
Z1D4.7	565	Z-1004	565	ZD6.2A	561	ZH12	563	ZP9.1A	562	ZR825-150	561	ZS271	1143
Z1D5.1	565	Z1004	565	ZD6.2B	561	ZH12A	563	ZP9.1B	562	ZR827-5	561	ZS272	1143
Z1D6.2	561	Z-1014	563	ZD-6.2V	561	ZH12B	563	ZP12	563	ZR827-10	561	ZS274	1144
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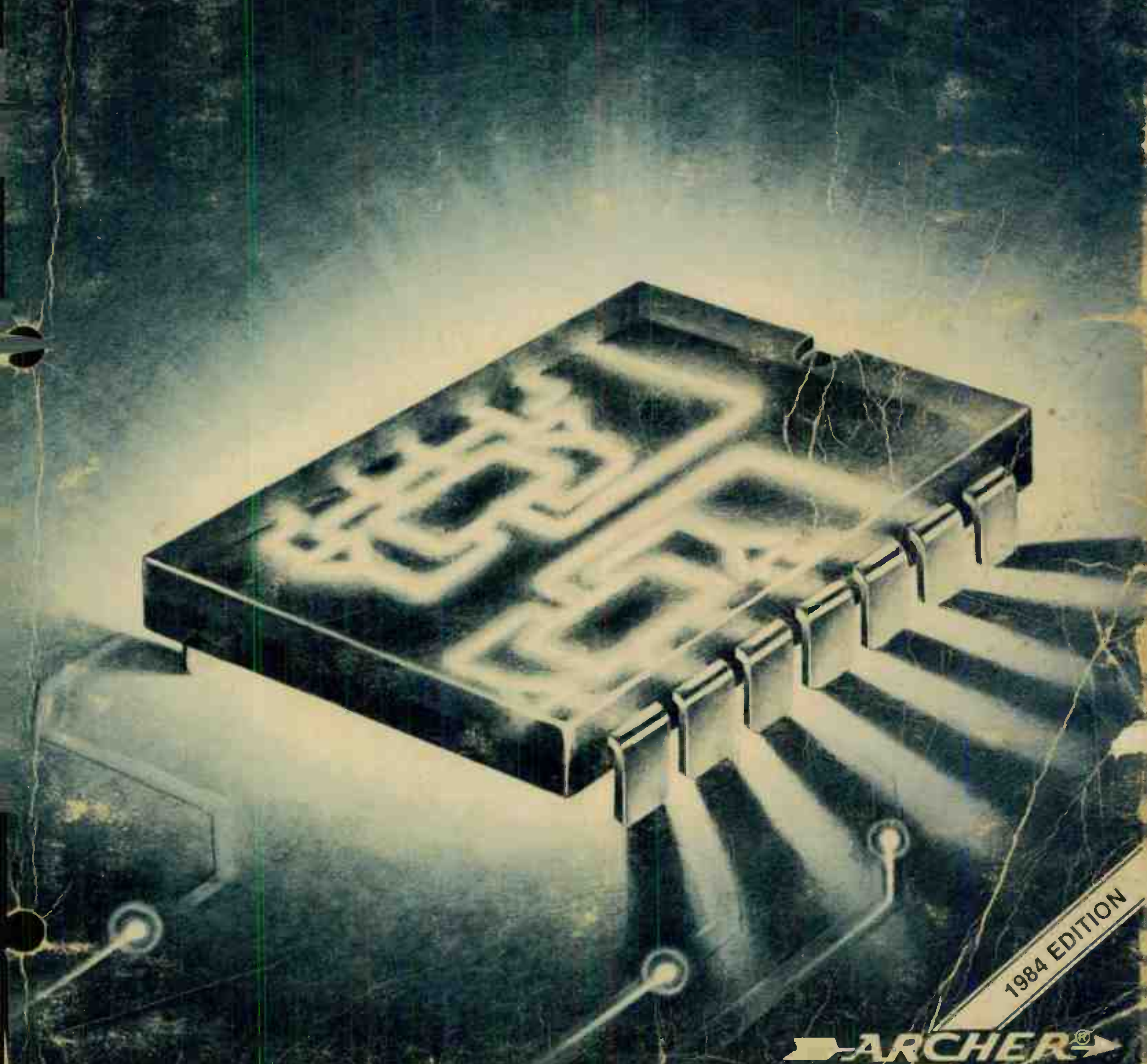
Semiconductor Reference Guide

INCLUDES OVER 100,000 SEMICONDUCTOR SUBSTITUTIONS



1984 EDITION

ARCHER®

276-4007

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Although great care has been taken in the preparation of this Reference Guide to insure the technical correctness, no responsibility is assumed by Radio Shack for any consequences of the use of items listed. Nor does Radio Shack assume any responsibility for any infringements of patents or other rights of third parties which may result from its use.

INTRODUCTION

This SEMICONDUCTOR REFERENCE HANDBOOK is intended to be just that—a reference handbook. It is not a definitive text book on semiconductors. It is a compilation of data on Radio Shack's line of prime-quality ARCHER semiconductors. Every ARCHER device covered in this Handbook is guaranteed prime—they are not "fall-outs" or "seconds"; all are top-quality, with known JEDEC, EIA or manufacturer's numbers.

At the back of the book is a cross-reference listing for replacement of Transistors, Diodes and other interchangeable semiconductor devices. The total number of cross-referenced devices exceeds 100,000. These cross-reference/replacement listings are computer-selected and are based on careful analysis of important parameters of the listed devices.

NOTE: If you can't find a replacement listing for a device you require, refer to the specification listings of the appropriate ARCHER family device. Often you will be able to make suitable replacements based on the information presented.

Each ARCHER replacement should meet or exceed the required parameters. However, due to differences in Quality Control and Manufacturing procedures (which often allow for or result in broad parameter variations), and because many of the ARCHER devices are capable of better performance than the original, Radio Shack does not guarantee, nor does it imply, that the listed items will provide an exact replacement in **every** instance. Therefore we recommend that you check the voltage and current requirements of the circuit (and other pertinent specifications) before replacement and compare with the specifications listed for that particular ARCHER device.

HOW TO USE THIS BOOK

This book has been prepared to aid in BOTH replacement and original applications of Semiconductor devices. The information included will be invaluable for the service technician as well as the circuit designer (whether he be an engineer, hobbyist, student or electronics experimeter).

We have included hints on handling Semiconductor devices, operating considerations, and some simple tests to aid you in evaluating the quality of the device in existing equipment (and thus the need for replacement). Also, a complete section on the specifications for each of the ARCHER devices is included; if there is any question in your mind about replacement equivalents or original use, refer to the appropriate category in the book. You will find the important characteristics specified there.

The next to last section is an extensive listing of replacement and cross reference between other manufacturer's numbers (both JEDEC/EIA 2N—numbers and in-house designations) and the ARCHER devices. This listing provides for the substitution of over 82,000 semiconductors with ARCHER devices.

The final section includes case style drawings and some handy reference notes, a comprehensive glossary of commonly used words, plus symbols and abbreviations.

CARE AND HANDLING OF TRANSISTORS

Most modern transistors are somewhat immune from mechanical shock; however, it is always a good idea to keep them from excessive mechanical shocks, especially the metal-case type (avoid dropping, etc).

When cutting transistor leads, use scissor-type cutting tools (rather than diagonal cutting tools which use a crimping action). Crimp-type cutting tools produce a mechanical shock along the lead which when transmitted to the semiconductor chip or material can cause fracture. Consider the force with which the cut lead flies off the crimp-type cutting tool and you have a good idea of the intensity of the equal and opposite force which acts on the lead going into the device.

It is always a good practice to use a heat-sink tool on a transistor lead when soldering (use a low-wattage iron—30-watts or less). Heat from soldering can cause problems (especially with certain types of semiconductor devices). Thus, to be sure, always use a heat-sink on the lead when soldering. Gripping the lead with long nose pliers between the solder connection and the case of the device makes a good heat-sink; or use a tool designed for such use.

SILICON OR GERMANIUM?

The quickest way to determine if a transistor is germanium or silicon type, is to check the normal emitter-base voltage drop. With NPN devices, if the base is approximately 0.25 volts positive with respect to the emitter, it is a germanium type. If the voltage is about 0.65 volts, it is a silicon type. For PNP devices, the voltage will be the same value, but opposite in polarity (0.25 volts for germanium and 0.65 for silicon).

OPERATING CONSIDERATIONS

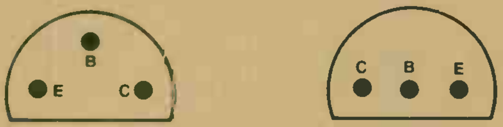
Before replacing an original-equipment device with the recommended Archer Type:

(A) Compare the lead or terminal arrangement of the Archer replacement device with the lead or terminal arrangement of the original device. If these arrangements are different, and the original transistor is a "plug in" type, bend the leads of the ARCHER device so that the base, emitter and collector leads will mate with the original transistor leads. Trim the leads after soldering in place.

CAUTION: Be particularly careful about "pin-circle" and "in-line" lead break-out type transistors. Often one manufacturer makes a type with "in-line" leads, while another may make the same type with "pin-circle" configuration. **Doublecheck both the original and the replacement device before soldering or plugging in transistors.**

BOTTOM VIEW

PIN-CIRCLE IN-LINE



(B) Certain considerations are involved whenever an original equipment transistor is replaced by one having a different type designation. When an ARCHER series transistor is used to replace an original equipment device in an untuned amplifier stage operating at a low signal level such as the untuned RF-amplifier (antenna) stage of a radio receiver, or a low-level AF amplifier stage, it is generally unnecessary to make any circuit adjustment to assure proper performance of the equipment. However, when a replacement is made in a turned RF amplifier stage, it is always advisable to check the alignment of the associated tuned circuits to assure proper tracking and to achieve the required gain without loss of stability.

(C) When replacements are made in stages operating at relatively high power levels, such as Class A and Class B AF output stages of automobile radio receivers, phonographs and AF-amplifier systems, the transistor bias should be checked and adjusted, if necessary, to protect the ARCHER replacement transistors against excessive dissipation and to minimize distortion. Means for making adjustments are generally provided in the equipment, and the necessary instructions are usually given in the equipment manufacturer's service data.

(D) When installing an ARCHER transistor as a substitute for an original equipment type in an FM tuner, TV tuner, or other circuits operating at frequencies in the VHF or UHF regions, it is extremely important not to change any of the lead lengths or position of the original circuit. Before removing the original transistor, carefully note its position with respect to other circuit components as well as the lengths and placement of the transistor leads, and duplicate these details as closely as possible with the ARCHER replacement transistor. Failure to observe this precaution can result in improper tuning or circuit instability. The same holds true for any replacement of Integrated Circuits, specially in FM radios and TV Receivers. Failure to observe this precaution can result in damage in the device. Transistor substitution in tuned circuits will often require realignment of the circuit.

SILICON VS SELENIUM RECTIFIERS

Silicon rectifiers are inherently more efficient than selenium or other metallic-oxide type rectifiers. When a silicon rectifier is used to replace a selenium rectifier in the power supply of a typical line-operated radio or TV receiver, the silicon rectifier will frequently deliver higher DC output voltage than the original device.

In some cases, this higher supply voltage may improve the performance of the equipment. However, in many other cases, it may immediately or eventually damage filter capacitors and/or other components which were designed to withstand only the voltage delivered by the original selenium rectifier. To prevent such damage, it is generally advisable to insert a power type resistor in series with the silicon rectifier either on the input side, between the AC supply and the rectifier, or on the output side between the rectifier and the first filter capacitor. The value of this resistor will depend on the required reduction in the DC output voltage and on the DC load current of the equipment. This value may be determined experimentally or calculated from the equation:

$$R = \frac{E}{I}$$

where R is the required resistance in ohms, E the required reduction in DC output voltage in volts and I the DC load current in amperes.

The wattage rating of the resistor should be at least 2 X EI (in no case less than 10 watts).

SOLDERING PRECAUTIONS

Extreme care should always be used in making solder connections to semiconductors. Momentary application of excessive heat, or even prolonged application of a properly heated soldering tool to a semiconductor lead or terminal, can permanently damage the device. Observe the following precautions in soldering a semiconductor lead or terminal:

1. Solder as far as possible from the body of the semiconductor.
2. Never, apply heat or molten solder to a lead or terminal for longer than 10 seconds or at a point closer than 1/16 inch to the body of the device.
3. Use a low voltage iron (30 watts or less) specifically intended for use with transistors or miniature circuit components.
4. Keep the surfaces to be soldered clean and the tip of the soldering tool adequately tinned so that the connection can be made as quickly as possible.
5. Always use a heat sink on the lead when soldering. Gripping the lead or terminal with longnose pliers between the solder connection and case or body allows the pliers to act as a heat sink, conducting heat away from the internal elements of the device.

ABOUT CASE DIMENSIONS

In some instances, the case of an ARCHER Semiconductor may be slightly taller or thicker than that of the original device or have a slightly different shape, particularly if the original device is a foreign type not made to U.S.A. EIA (JEDEC) standards. These mechanical differences should not affect the performance of the equipment in which the replacement is made and normally will not prevent or complicate the installation of the ARCHER replacement device.

You should realize that cross-reference substitution listings are created based **on electrical parameters (not necessarily on mechanical size or type)**. Thus, when you make substitutions based on our listings, check for physical/mechanical compatibility. If space is limited, it would be a good idea to check physical dimensions as well as electrical specs before making substitution.

GENERAL PRECAUTIONS

ARCHER transistor and ARCHER semiconductors should not be inserted or withdrawn from circuits with the power on, because transient currents may cause permanent damage to the device. In some cases ARCHER semiconductors are in metal cans and thus could possibly become shock hazards if they are allowed to operate at a voltage appreciably above or below ground potential.

For the most effective protection, a power transistor should be operated with an adequate heat sink and with the lowest value of resistance or impedance in the emitter-to-base circuit consistent with driving signal considerations. The transistor should be protected against extremely high collector voltage pulses which may be generated when the device is operated with inductive loads particularly when current transients are present.

When replacing a power transistor or rectifier which is attached to the equipment chassis, or to a special heat sink, observe the following precautions:

A. In the case of oxide coated metal washers or wafers, which are frequently used as electrical insulators between the cases of power transistors and the chassis or heat sink, it is important not to scratch, chip or otherwise damage the oxide surface.

B. When installing an ARCHER power transistor, where a mica or oxide coated metal washer was used to insulate the case of the original device electrically from the case, apply a thin coating of Heat Sink Compound (Radio Shack Number 276-1372) between the washer and the chassis or heat sink.

TESTING A TRANSISTOR

Before replacing a transistor you want to be sure it needs to be replaced. Always check the entire circuitry to be sure the transistor requires replacement.

The best method for checking transistors is to use a good transistor checker (dynamic in-circuit and out-of-circuit type). However, a sensitive VOM can give you a good indication of the quality of the device.

I. In-Circuit Testing

A. First, check to see if the emitter-base junction is forward-biased. An NPN transistor should show the base 0.2 to 0.65 volts positive with respect to the emitter (approximately 0.25 volts for a germanium type and 0.6 volts for silicon). A PNP transistor should show the base 0.2 to 0.65 volts negative with respect to the emitter (0.25 volts for germanium and 0.6 volts for silicon).

B. Check to see if the device is functioning as an amplifier. Short the emitter-base junction to remove forward bias. Voltage at the collector lead should rise to approximately the potential of the collector supply buss line. Any difference is caused by ICES (collector-to-base leakage current). The closer the collector voltage approaches the buss line, the lower ICES is and the better the transistor.

II. Out-of-Circuit Testing

Again, for the best indication of transistor quality, use a good transistor checker. However, an ohmmeter can be used as described here.

Before using the ohmmeter, find out which polarity of the internal ohmmeter battery is connected to which test lead (not all ohmmeters have the + battery polarity connected to the red lead and the − battery polarity connected to the black lead). To determine the polarity of the leads when using the ohmmeter function, use an external voltmeter or study the schematic of your VOM.

Also, remember that in most transistor circuits you are dealing with low voltages and currents (in some cases, very low). Therefore, **NEVER** use RX1 scale (extensive currents can flow through a junction, permanently damaging the transistor). It is best to determine the maximum amount of current available in each resistance range before using an ohmmeter for testing semiconductor junctions.

After you have evaluated your VOM for the above and are sure you will not damage a transistor (with excessive current or voltage in any given ohmmeter range), proceed as follows:

A. Small Signal PNP Germanium Transistors
  1. Connect the positive lead of your ohmmeter to the emitter. Connect the negative lead to the base. You should read 200-500 ohms.
  2. Connect the negative lead to the collector. You should read 10K-100K. Shorting collector base, the resistance should decrease.

B. Small Signal NPN Germanium Transistors
Reverse the polarity of the leads; the readings should be approximately the same.

C. Power PNP Germanium Transistors
  1. Connect the positive lead to the emitter. Connect the negative lead to the base. The reading should be 35-50 ohms.
  2. Connect the negative lead to the collector The reading should be several hundred ohms. Shorting collector to base, the resistance should decrease.

D. Power NPN Germanium Transistors
Reverse the polarity of the leads; the reading should be approximately the same.

E. Small Signal PNP Silicon Transistors
   1. Connect the positive lead to the emitter. Connect the negative lead to the base. The reading should be 1K-3K.
   2. Connect the negative lead to the collector. The reading should be very high (may show as an "open").

F. Small Signal NPN Silicon Transistors
   Reverse the polarity of the leads; the readings should be approximately the same.

G. Power PNP Silicon Transistors
   1. Connect the positive lead to the emitter. Connect the negative lead to the base. The reading should be 200-1K.
   2. Connect the negative lead to the collector. The reading should be about 1 megohm or more.

H. Power NPN Silicon Transistors
   Reverse the polarity of the leads; the readings should be approximately the same.

The resistance readings noted above can only be approximate; as long as you obtain somewhat **proportionate** readings (emitter-base readings as compared to emitter-collector), you can safely assume the transistor is OK.

HANDLING OF INTEGRATED CIRCUITS

Because MOS devices have extremely high input resistance, they are susceptible to damage when exposed to static electrical charges (even electrical charges that normally build up on the human body can cause damage). To avoid possible damage to the devices during handling, testing, or actual operation, the following procedures should be observed:

1. Except when being tested or in actual operation, the leads of devices should be in contact with a conductive material, to avoid build-up of static charge.

2. Soldering iron tips, tools, metal parts of fixtures and handling facilities should be grounded.

3. Transient voltages may cause permanent damage to the device if it is removed or inserted with the power on.

4. Do not apply signals to the input with the power supply off.

5. All unused input leads must be connected to either Vss or VDD (whichever is appropriate for the logic circuit involved).

DIODES AND RECTIFIERS

GENERAL PURPOSE DIODES RATINGS @ 25°C

Catalog Number	PIV (min) V	If A	Ir (max) @ Vr µA	Vf (max) @ If V	Case Style
276-1101	50	1.000	10	1.6	DO41
276-1102	200	1.000	10	1.6	DO41
276-1103	400	1.000	10	1.6	DO41
276-1104	600	1.000	10	1.6	DO41
276-1114	1000	2.500	200	1.0	A1vm
276-1122	75	0.010	250nA	1.0	A1
276-1123	60	0.085	15	1.0	A1
276-1124	5	0.010	100nA	0.340	A4
276-1141	50	3.000	500	1.2	A3q
276-1143	200	3.000	500	1.2	A3q
276-1144	400	3.000	500	1.2	A3q

ZENER DIODES—1 Watt

Catalog Number	Vz Volts ±10%	Iz @ mA	Zz @ Iz ohms max	Case Style
276-561	6.2	41	2	DO41
276-562	9.1	25	7	DO41
276-563	12.0	21	9	DO41
276-564	15.0	17	14	DO41
276-565	5.1	49	7	DO41

BRIDGE RECTIFIERS

Catalog Number	PIV (min) V	If (max) A	Case Style
276-1146	50	4	M532a
276-1151	50	1.4	M548
276-1152	100	1.4	M548
276-1161	50	1	Y1
276-1171	100	4	M532a
276-1173	400	4	M532a
276-1180	50	6	M532a
276-1185	50	25	—

BIPOLAR TRANSISTORS

Catalog Number	Direct Commercial Equivalent	Mat.	Appli.	Polarity	Power Diss. @25°C Free Air	f_T Typical MHz	V_{CBO} V	V_{CEO} V	V_{EBO} V	I_C Max	I_B Max	h_{FE}	@V_{CE} V	@I_C mA	I_{CBO} at max V_{CB}	Case Style
276-2007	2N1305	G	S	PNP	150mW	5	30	—	25	300mA	—	40	1	10	6μA	TO5
276-2009	MPS2222A	S	G.P.	NPN	500mW	300	75	40	6	800mA	—	50	10	1	10nA	TO92
276-2010	PN2484	S	LL	NPN	360mW	15	60	60	6	50mA	—	250	5	1	10nA	TO92
276-2016	MPS3904	S	S	NPN	350mW	300	60	40	6	200mA	—	100	10	1	50nA	TO92
276-2017	TIP31	S	P	NPN	40W‡	3	40	40	5	3A	1A	10-50	4	3A	300μA	TO220AB-2
276-2020	TIP3055	S	P	NPN	90W‡	3	100	70	7	15A	7A	20	4	4A	1mA	TO220
276-2023	MPS2907	S	S	PNP	400mW	200	60	40	5	600mA	—	50	10	1	20nA	TO92
276-2027	MJE34	S	P	PNP	90W‡	3	40	40	5	10A	3A	20-100	4	3A	220μA	TO220
276-2030	2N3053	S	P	NPN	1W	100	60	40	5	700mA	—	50	10	150	—	TO5
276-2032	MPS3638	S	RF/IF	PNP	350mW	100	25	25	4	500mA	—	30	3	10	10nA	TO92
276-2041	2N3055	S	P	NPN	115W‡	2 5	100	60	7	15A	7A	50	4	1A	—	TO3
276-2043	MJ2955	S	P	PNP	150W‡	4	100	60	7	15A	7A	70	10	0.5	—	TO3
276-2044	MRF901	S	UHF	NPN	300mW	2500	25	15	2	30mA	—	80	5	5	50nA	MACRO-X
276-2048	2SD313	S	P	NPN	30W‡	8	60	60	5	3A	—	40-320	2	1	100μA	TO220
276-2051	2SC945	S	G P	NPN	250mW	250	60	50	5	100mA	—	60-600	6	1	100nA	TO92J
276-2055	2SC1308	S	SW	NPN	50W‡	—	1400	400	6	7A	0.8A	3	2	4A	5mA	TO3
276-2057	2N4124	S	G P	NPN	350mW	300	30	25	5	200mA	—	460	10	2	0 1μA	TO92
276-2058	2N4401	S	G.P.	NPN	350mW	250 min.	40	60	6	600mA	—	500	10	1	0 1μA	TO92
276-2059	MPSA06	S	P	NPN	625mW	100	80	80	4	500mA	—	50 min	1	100	0 1μA	TO92
276-2060	MPSA13	S	P*	NPN	625mW	2	30	30	10	500mA	—	10,000	5	100	100nA	TO92
276-2061	MPSA42	S	G P	NPN	625mW	50	300	300	6	500mA	—	40 min	10	30	0 1μA	TO92
276-2068	TIP120	S	P	NPN	65W‡	0.1	60	60	5	5A	120mA	2500	3	500	0 2mA	TO220AB-2

NOTE: All ratings given are for 25°C except where otherwise noted.

‡With heat sink.

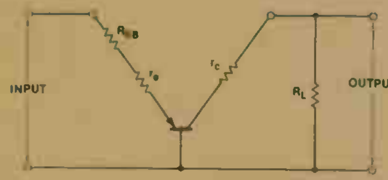
MATERIAL:

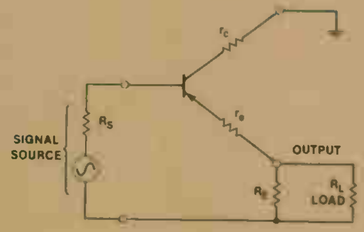
S—Silicon; G—Germanium

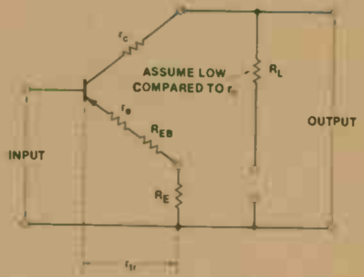
APPLICATION:

S—Switch
G.P.—General purpose
P—Power amp/switch
RF/IF—RF/IF frequency
*—High Gain Darlington
UHF—Ultrahigh frequency
LL—Low Level
SW—TV Sweep

USEFUL INFORMATION







Parameters of Common-Base Circuit

Input Impedance $Z_{in} = r_{tr}$

Load Impedance $Z_L = R_L$ in parallel with input impedance of following stage

Current Gain $A_i = \alpha = \frac{\beta}{1 + \beta}$

(In practice, α is 0.95 to 0.995, or approximately 1.)

Voltage Gain $A_v \approx \frac{Z_L}{r_{tr}} = g_m Z_L$

Parameters of Common-Collector Circuit

Input Impedance $Z_{in} = (\beta + 1)Z_L$

where,

Z_L is R_L in parallel with R_E

Output Impedance $Z_{out} = \frac{R_s}{\beta + 1}$

where,

R_s is the output impedance of the signal source

Current Amplification $A_i \approx \beta$

Voltage Amplification A_v = Less than unity

Parameters of Common-Emitter Circuit

Input Impedance $Z_{in} = h_{fe} r_{tr}$

Load Impedance $Z_L = R_L$ in parallel with input impedance of next stage

Current Gain $A_i = \frac{\Delta I_C}{\Delta I_B} = h_{fe}$

where,

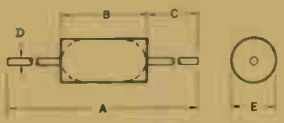
$$h_{fe} = \beta = \frac{I_c}{I_b} = \frac{\alpha}{1 - \alpha}$$

Voltage Gain $A_v = \frac{\Delta V_C}{\Delta V_B} = \frac{Z_L}{r_{tr}} = g_m Z_L$

Power Gain $A_p = \frac{V_{out} I_{out}}{V_{in} I_{in}} = \beta \frac{Z_L}{r_{tr}}$

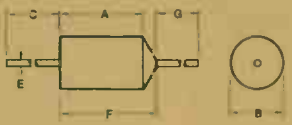
QUICK CASE REFERENCE

A1



May show color bands to denote polarity

A3



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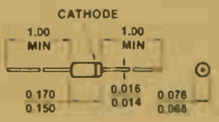
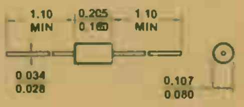
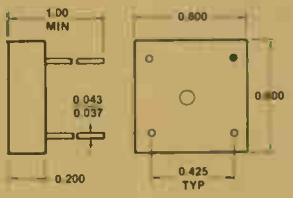


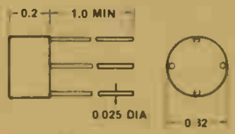
DO41



M532A

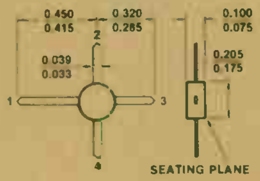


M548



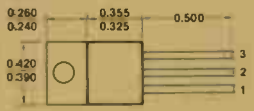
Positive Red or Square Lead

MACRO-X



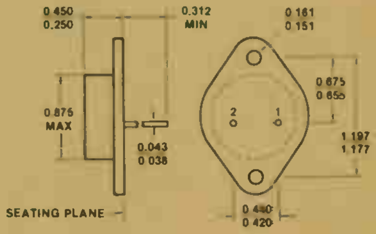
1 COLLECTOR
2 EMITTER
3 BASE
4 EMITTER

MU27



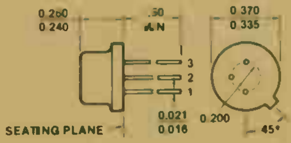
SCR	TRIAC
1 CATHODE	1 ANODE 1
2 ANODE	2 ANODE 2
3 GATE	3 GATE

TO3



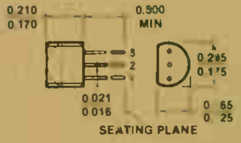
1-BASE
2 EMITTER
CASE COLLECTOR

TO5



1-EMITTER
2-BASE
3-COLLECTOR

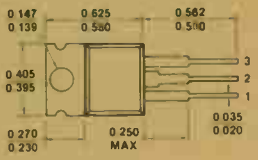
TO92



N CHANNEL FET	UNIJUNCTION	BIPOLAR	BIPOLAR J*
1 SOURCE	1-BASE 1	1-EMITTER	1-EMITTER
2 GATE	2-EMITTER	2-BASE	2-COLLECTOR
3 DRAIN	3-BASE 2	3 COLLECTOR	3 BASE

*Japanese device types

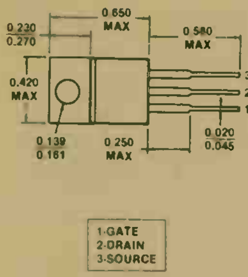
TO220



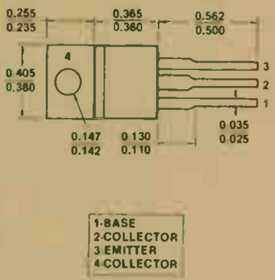
BIPOLAR	TRIAC
1-BASE	1 ANODE 1
2 COLLECTOR	2 ANODE 2
3 EMITTER	3 GATE

QUICK CASE REFERENCE

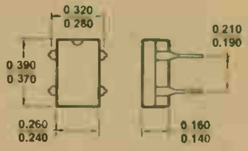
TO220AB



TO220AB-2



Y1



SPECIAL TRANSISTOR (N-CHANNEL MOSFET)

IRF511
276-2072

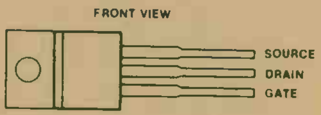
N-CHANNEL MOSFET TRANSISTOR

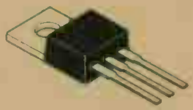
GENERAL DESCRIPTION

The efficient geometry and unique processing of the HEXFET design achieve very low on-state resistance combined with high transconductance and great device ruggedness.

This transistor also features all of the well established advantages of MOSFETs such as voltage control, freedom from second breakdown, very fast switching, ease of paralleling, and temperature stability of the electrical parameters.

PIN CONNECTION





FEATURES

- Fast switching
- Low drive current
- Ease of paralleling
- No second breakdown
- Excellent temperature stability

APPLICATIONS

- Switching power supplies
- Motor controls
- Inverters
- Choppers
- Audio amplifiers
- High energy pulse circuits

ABSOLUTE MAXIMUM RATINGS

Drain-Source Voltage, V_{DS}	60V
Drain-Gate Voltage (R_{GS} = 1 MΩ), V_{DGR}	60V
Gate-Source Voltage, V_{GS}	±20V
Continuous Drain Current, I_D @ $T_C \cong 86°C$	3A
Pulsed Drain Current, I_{DM}	8A
Maximum Power Dissipation, P_D	20W
Linear Derating Factor	0.16W/K
Inductive Current, Clamped, I_{LM} (See Fig. 1) L = 100 μH	8A
Operating Temperature Range, T_j	−55 to +150°C
Storage Temperature Range, T_{stg}	−55 to +150°C

TEST CIRCUITS

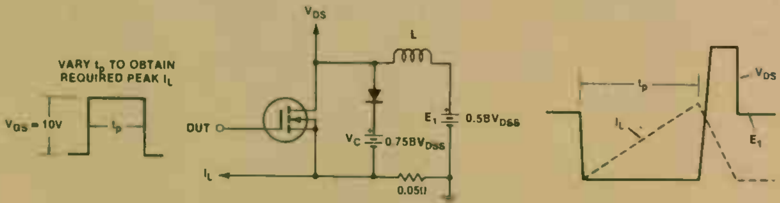


Figure 1—Clamped Inductive Test Circuit and Waveform

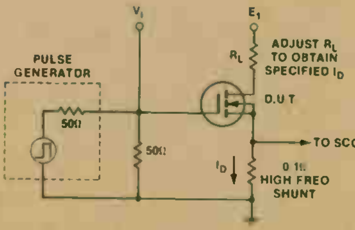
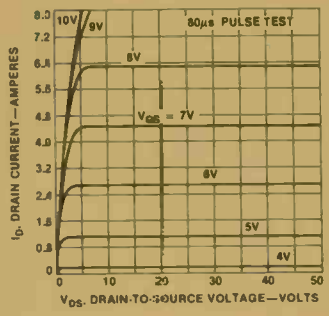


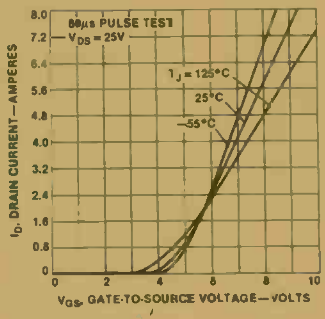
Figure 2—Switching Time Test Circuit

IRF511 276-2072

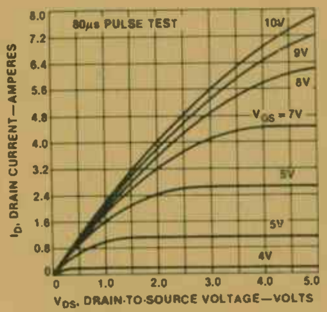
TYPICAL CHARACTERISTICS



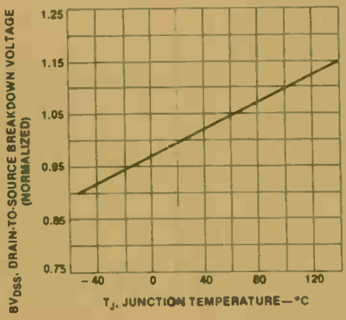
Output Characteristics



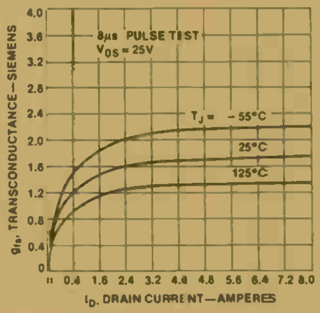
Transfer Characteristics



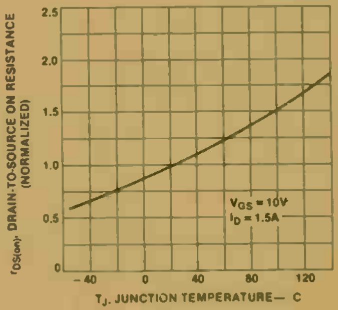
Saturation Characteristics



Breakdown Voltage vs Temperature



Transconductance vs Drain Current



Normalized On-Resistance vs Temperature

N-CHANNEL LOW POWER HEXFET

IRFD1Z3
276-2073

GENERAL DESCRIPTION

This device combines automatic insertion efficiency, a 1 watt heat sink tab with the HEXFET high performance, quality, and reliability. These space saving HEXDIPs are end-stackable in rows of any length on 100 mil centers. The low profile N-Channel HEXDIPs can be used on boards for cages with 0.5″ board spacing.

ABSOLUTE MAXIMUM RATINGS

Drain-to-Source Voltage, V_{DS}	60V
On-State Resistance, $R_{DS(ON)}$	3.2Ω
Continuous Drain Current, I_D (25°C Case)	0.4A
Pulsed Drain Current, I_{DM}	1.5A
Maximum Power Dissipation, P_D	1.0W

PIN CONNECTION

MPF102
276-2062

SILICON N-CHANNEL JUNCTION FIELD EFFECT TRANSISTOR

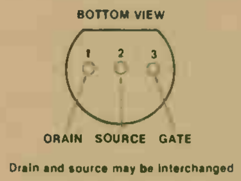
GENERAL DESCRIPTION

The MPF102 is designed for small signal applications. These include VHF amplifiers and mixers.

ABSOLUTE MAXIMUM RATINGS ($T_A = 25°C$ unless otherwise noted)

Drain-Source Voltage	25 V
Drain-Gate Voltage	25 V
Gate-Source Voltage	25 V
Gate Current	10 mA
Total Device Dissipation	310 mW
Operating Junction Temperature	125°C
Storage Temperature Range	−65 to +150°C

PIN CONNECTION



MU4891
276-2029

PN UNIJUNCTION TRANSISTOR

GENERAL DESCRIPTION

This is a PN Unijunction Transistor designed for use in pulse, timing, triggering, sensing, and oscillator circuits. The annular process provides low leakage current, fast switching and low peak-point currents as well as outstanding reliability and uniformity.

ABSOLUTE MAXIMUM RATINGS ($T_A = 25°C$ unless otherwise noted)

RMS Power Dissipation	300 mW
RMS Emitter Current	50 mA
Peak Pulse Emitter Current	1.0 Amp
Emitter Reverse Voltage	30 Volts
Intrinsic Standoff Ratio (η) ($V_{B2B1} = 10V$) Note 1	0.82 η
Interbase Resistance (r_{BB}) ($V_{B2B1} = 3.0$ V, $I_E = 0$)	9.1 k ohms
Interbase Resistance Temperature Coefficient ($\propto Ir_{BB}$) ($V_{B2B1} = 3.0$ V, $I_E = 0$, $T_A = -65°C$ to $100°C$)	0.9%/°C
Emitter Saturation Voltage ($V_{EB1(sat)}$) ($V_{B2B1} = 10$ V, $I_E = 50$ mA) Note 2	4.0 Volts
Modulated Interbase Current ($I_{B2(mod)}$) ($V_{B2B1} = 10$ V, $I_E = 50$ mA)	15 mA
Emitter Reverse Current (I_{EB20}) ($V_{B2E} = 30$ V, $I_{B1} = 0$)	10 nA
Peak Point Emitter Current (Ip) ($V_{B2B1} = 25$ V.)	5.0 μA
Valley Point Current I_V) ($V_{B2B1} = 20$ V, $R_{B2} = 100$ ohms) Note 2	4.0 mA
Base-one Peak Pulse Voltage (V_{0B1}) (Note 3, Figure 2)	5.0 Volts
Storage Temperature Range	−65 to +150°C

NOTES

1. Intrinsic standoff ratio.

η.is defined by equation:

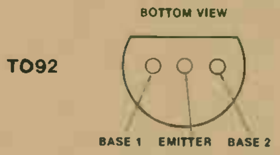
$$\eta = \frac{V_P - V_{(EB1)}}{V_{B2B1}}$$

Where V_P = Peak Point Emitter Voltage
V_{B2B1} = Interbase Voltage
$V_{(EB1)}$ = Emitter to Base-One Junction Diode Drop (≈0.5V @ 10μA)

2. Use pulse techniques: PW ≈ 300 μs duty cycle ≤2% to avoid internal heating due to interbase modulation which may result in erroneous readings.

3. Base-One Peak Pulse Voltage is measured in circuit of Figure 2. This specification is used to ensure minimum pulse amplitude for applications in SCR firing circuits and other types of pulse circuits.

PIN CONNECTION



TYPICAL CHARACTERISTICS

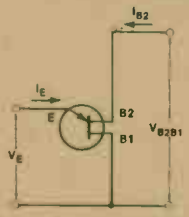


Figure 1—Unijunction Transistor Symbol and Nomenclature

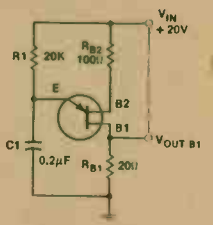
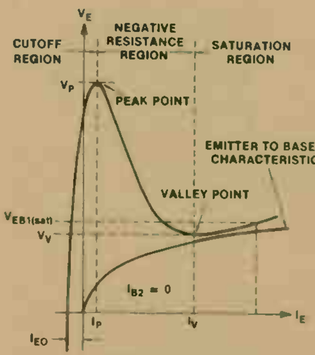


Figure 2—Typical Relaxation Oscillator



Exaggerated to show details.

Figure 3—Static Emitter Characteristic Curves

SILICON N-CHANNEL JUNCTION FIELD-EFFECT TRANSISTOR

2N3819
276-2035

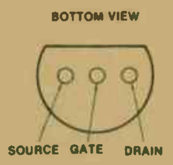
GENERAL DESCRIPTION

The 2N3819 is designed for general purpose small-signal applications. It features low capacitance between drain and gate terminals and an excellent high-frequency figure of merit. It achieves a low noise figure and good power gain with low crossmodulation and intermodulation.

ABSOLUTE MAXIMUM RATING
(T_A = 25°C unless otherwise noted)

Gate-Source Breakdown Voltage BV_{GSS}	− 40 V
Zero Gate Voltage Drain Current I_{DSS}	20 mA
Forward Transconductance g_{fs}	7.0− mmhos
Reverse Gate Leakage I_{GSS}	− 100 pA
"ON" Resistance r_{DS}	500 ohms
Pinch Off Voltage $V_{GS(OFF)}$	− 6.0 V
Output Conductance g_{os}	10 μmhos
Feedback Capacitance C_{rss}	0.9 pF
Input Capacitance C_{iss}	4.0 pF
Power Gain G_{PS}	12 dB
Power Dissipation	360 mW

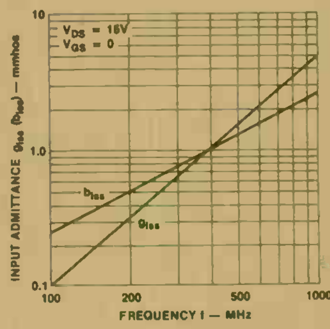
PIN CONNECTION



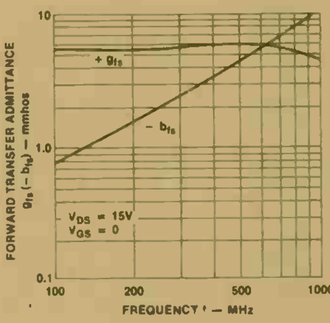
T092

TYPICAL CHARACTERISTICS

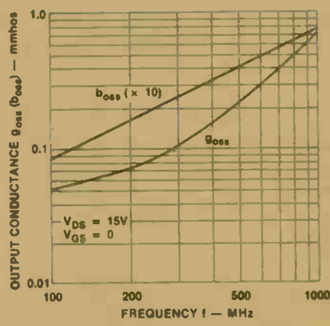
COMMON SOURCE



Input Admittance vs Frequency

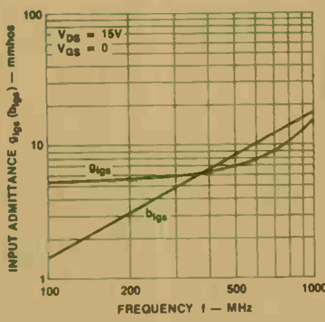


Forward Transfer Admittance vs Frequency

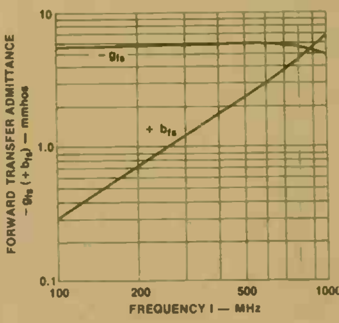


Output Conductance vs Frequency

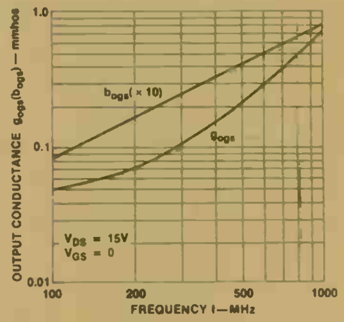
COMMON GATE



Input Admittance vs Frequency



Forward Transfer Admittance vs Frequency



Output Conductance vs Frequency

V8ZA1
276-569

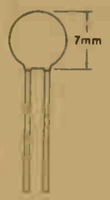
METAL DIODE VARISTOR

GENERAL DESCRIPTION

The V8ZA1 varistor is best described by a voltage current characteristic shown in Figure 1. The device is symmetrical and its V-I characteristic is quite similar to zener diodes connected back-to-back.

Figure 2 shows the V-I characteristics of the V8ZA1. The 1 mA point defines the specification limit for the minimum and maximum voltage. The maximum point is continuous into the maximum clamping voltage of the device. The thick, heavy line shows the 500-device average. In comparing the 500-device average and the maximum limits, one can see how much better the devices are than the specification indicates.

PIN CONNECTION



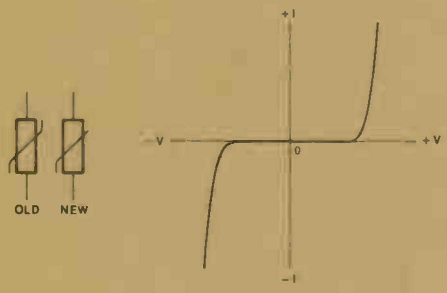


Figure 1—Symbol and V-I Characteristic of Varistors

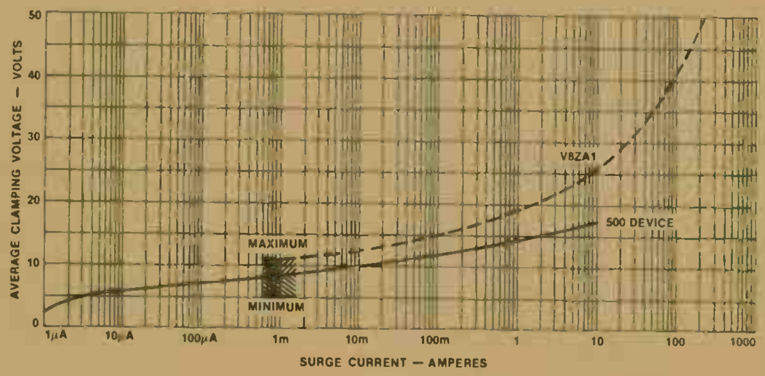


Figure 2—Maximum and Minimum V_C and 1mA and Maximum V_CContinuous to Maximum I_C. Solid Line shows 500 DeviceAverage of V_C

The devices are constructed similar to a ceramic capacitor. Two electrodes are separated by a ceramic material. As capacitance is proportional to area, and inversely proportional to thickness, low-voltage varistors have relatively high capacitance, which limits their application to the lower frequency domain, as the charging current of the capacitance may alter the signal.

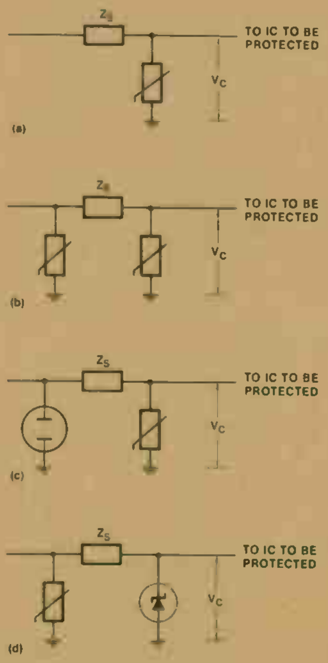
One of the inherent features of the V8ZA1 varistor is its high energy absorption capability. This is based on the fact that each device consists of many small junctions where the energy is converted into heat. Each junction is in immediate contact to the zinc oxide material which has high thermal storage capability and yields a device having low peak temperatures, which makes it extremely reliable with superior overload capability.

The new low-voltage varistors can be used to protect low-voltage circuits of 5V and lower: all integrated circuits, systems containing low-voltage IC's, memories, test equipment, data processing equipment using large, mini, or micro-computers, input-output circuits, sensing circuits, current loops, sensing and interlocking circuits.

The simplest way to use a V8ZA1 varistor is shown in Figure 3(a) The maximum clamping voltage depends on the maximum transient current. If the clamping voltage is too high and the signal currents are low, hybrid arrangements as shown in Figures 3(b) and (d) may still be an effective and low cost alternative. The series impedance Z_S (an inductor or resistor) should be as large as possible, without distorting or attenuating the signal appreciably. The clamping voltage of the suppressor should be low, but high enough to not attenuate or distort the signal.

ABSOLUTE MAXIMUM RATINGS

Transient Energy (10 × 100μs)	0.4 Joules
Transient Peak Current (8 × 20μs)	100A
Voltage DC	5.5 V
Voltage RMS	4 V
Voltage Clamping (8 × 20μs)	22 V
Typical Capacitance (f = 0.1-1MHz0	4500 pF
Power (Transients)	0.25 W

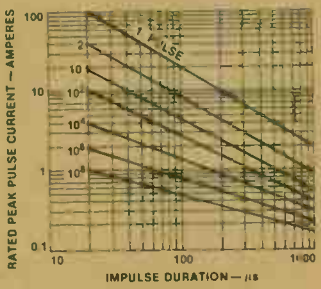


Z_S = SERIES IMPEDANCE
V_C = MAXIMUM CLAMPING VOLTAGE
$\Delta V = I_{SIGNAL} \times Z_S$
$V_{SIGNAL} - \Delta V \geq V_{SIGNAL}$ MINIMUM

Figure 3—Possible Configurations of V8ZA1 Varistors In Combination With Other Devices

V8ZA1 276-569

TYPICAL CHARACTERISTICS



Rated Peak Pulse Current
vs Impulse Duration

APPLICATION INFORMATION

Transients exist in every ac or dc system or any wire connecting two pieces of equipment or components. The source can be lightning, high energy switching, high voltage sparkover, or fuse blowing. Every time a magnetic storage device is turned off, the energy stored in the inductance is given as:

$$E = 1/2\, L I^2$$

E = Energy (Joules)
L = Inductance (Henries)
I = Current (Amps)

The peak voltage is the result of collapsing the magnetic field.

$$V = -L \times \frac{di}{dt}$$

V = Induced voltage (Volts)
L = Inductance
$\frac{di}{dt}$ = Change of current

Contact arcing, capacitor discharge, and electrostatic discharge may be found any place there is energy stored in inductances capacitors, or mechanical devices (motors and generators), and this energy is returned to a circuit. Stray capacitance and inductance may set off oscillation, making the problem even worse.

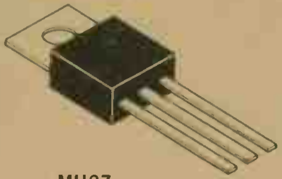
Whatever the cause of a transient, natural or man-made, the damage potential is real and cannot be causally dismissed if reliable operation of equipment is to be expected.

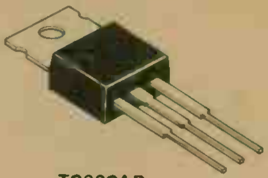
To properly select a transient suppressor, the frequency of occurrence, open circuit voltage, short circuit current, and source impedance must be known.

SPECIAL PURPOSE DEVICES (SCR) (TRIAC) (VARISTER)

276-1000
276-1001
276-1020
276-1067

THYRISTORS


MU27


TO220AB

GENERAL DESCRIPTION

Thyristors and their trigger devices can take numerous forms, but they share these characteristics:

- They are "open circuits" capable of withstanding rated voltage until triggered.
- They become low-impedance current paths when triggered, and remain so, even after the trigger source is removed, until current through that path stops, or is reduced below a minimum "holding" level.

SCRs

Silicon Controlled Rectifiers (SCRs) are Thyristors intended to switch load currents in one direction only, making them useful for DC and half-wave AC applications as well as full-wave applications, in which bidirectional current is routed in one direction through the SCR via a bridge rectifier.

Catalog Number	Imax A	Vmax V	I_{GT} (max) mA	V_{GT} (max) V	Case Style
276-1067	6	200	25	1.5	MU27
276-1020	6	400	25	1.5	MU27

TRIACs

Triacs are bidirectional Thyristors, in which a single trigger source turns the device on for load current in either direction. Because they do not require a bridge rectifier in order to handle full-wave AC, Triacs are useful in AC power applications that require full source power control capability to be applied to the load.

Catalog Number	Imax A	Vmax V	I_{GT} (max) mA	V_{GT} (max) V	Case Style
276-1001	6	200	50	2.5	TO220AB
276-1000	6	400	50	2.5	MU27

V130LA10A
276-570

METAL OXIDE VARISTER

GENERAL DESCRIPTION

This zinc oxide varistor is a voltage dependent symmetrical resistor which performs similarly to back-to-back zener diodes in circuit protection and offers advantages in performance and economics. When exposed to high energy voltage transients, the varistor impedance changes from a very high standby value to a very low conducting value thus clamping the transient to a protective level. The energy of the incoming high voltage pulse is absorbed by the varistor, protecting voltage sensitive components against damage.

PIN CONNECTION

FEATURES

- Excellent clamp ratio
- Fast response time (<35 nsec.)
- Low standby power drain
- No follow-on current

ABSOLUTE MAXIMUM RATINGS

Transient Energy (10 × 1000 μs) (Note 1)	35 joules
Transient Peak Current (8 × 20 μs) (Note 2)	4500 A
Peak Voltage @ 1 ma DC	232 V
Peak Voltage @ 1 ma AC	254 V
Clamping Voltage V_C @ Test Current (8 × 20 μs)	340 V
Typical Capacitance (f = 0.1 to 1 MHz)	1000 pF

Note 1: 10 μs rise and 1000 μs to 50% decay of peak value.
Note 2: 8 μs rise and 20 μs to 50% decay of peak value.

OPTOELECTRONIC INDEX

FUNCTION	CATALOG NO.	PAGE NO.
DET/EMITTER	276-142	22
DRIVER	276-134	18
DISPLAY	276-053	21
	276-081	19, 20
EMITTER	276-143	22
LED INDICATORS	276-018	16
	276-019	16
	276-021	16
	276-022	16
	276-026	16
	276-033	16
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	276-037	16
	276-041	16
	276-068	16
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	276-070	16
	276-073	16
PHOTOCELL	276-116	21
PHOTO TRANSISTOR	276-130	17
	276-145	17
SOLAR CELL	276-124	23
SOLAR PANEL	277-1250	23

TRI-COLOR LIGHT EMITTING DIODE

XC-5491
276-035

GENERAL DESCRIPTION

The XC-5491 tri-state LED provides red, green, and yellow emission in the same package. This LED is a popular .200 diameter, two-leaded package containing a red and green LED chip in inverse parallel. By reversing the polarity of the applied current, the LED will emit red or green light while an AC voltage results in yellow light. The chips used in the XC-5491 are brightness matched so that the light output is uniform. This eliminates the necessity for the special drive circuits previously required with tri-state lamps.

These lamps provide the designer with the capability of efficiently displaying three functions with one indicator. This reduces the number of front panel indicators and simplifies design.

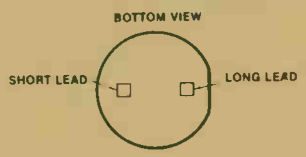
FEATURES

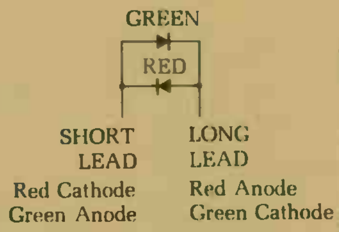
- 3 States—red, green, and yellow
- Equal brightness in all three colors
- Popular T 1¾ size package
- Wire wrappable leads

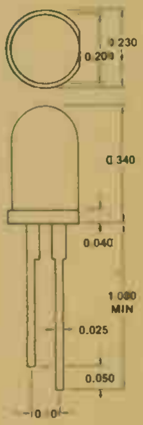
ABSOLUTE MAXIMUM RATINGS

Forward Current . . . . 25 mA
Peak Reverse Voltage 5V
Power Dissipation . . . . 100 mW
Operating Temperature Range . . . . −55 to +85°C
Lead Solder Temperature . . . . 260°C

PIN CONNECTION







OPTOELECTRONIC (LED)
LED INDICATORS

Catalog Number	Direct Commercial Equivalent	Peak Wave Length nM	Color	Forward Voltage V_F (V)	Reverse Voltage V_R (V)	Max DC Forward Current I_F (MA)	Max Pwr Diss P_D (MW)	Fig. No.
276-018	PR5534S	700	RED	2.5	4	100	75	5
276-019	BG5534S	555	GREEN	2.5	4	100	125	5
276-021	SLP-236B	565	YELLOW	2.8	3	30	70	6
276-022	SLP-236B	565	GREEN	2.8	3	30	70	6
276-026	—	650	RED	—	3	50	100	3
276-033	TLR-107	700	RED	2.1	4	35	100	2
276-037	SLP-235B	565	GREEN	2.8	3	30	70	5
276-041	—	700	RED	1.75	3	70	140	4
276-068	—	700	RED	1.9	—	30	—	7
276-069	—	560	GREEN	2.1	—	30	—	7
276-070	SEL-1120R	700	RED	2.5	3	30	—	1
276-073	—	—	YELLOW	2.1	—	30	—	7

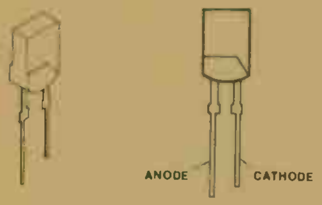


FIGURE 1
Miniature LED with diffused lens. Its features include high brightness—ideal for bar graph display—can be arranged horizontally or vertically.

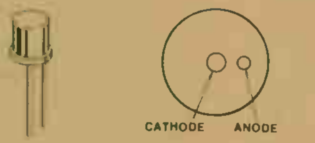


FIGURE 2
Miniature LED with diffused lens. This LED is compatible with most TTL and transistor circuits. It features a Fresnel lens design.

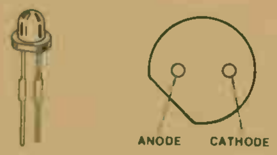


FIGURE 3
This LED features a frosted diffused lens in a plastic encapsulant. When the device is on, it appears as a large, soft light source, making it ideally suited for front panel applications.

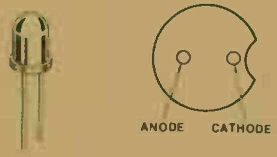


FIGURE 4
This device is a jumbo LED with a diffused lens. It can be used in applications such as pilot and indicator lamps.

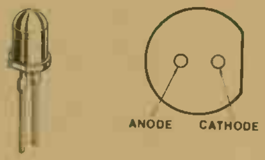


FIGURE 5
Subminiature LED with diffused lens. This device has solid state reliability and is compatible with most TTL and transistor circuits.

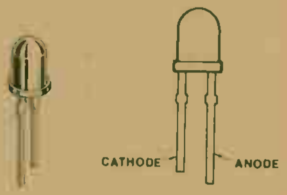


FIGURE 6
This is a frame type solid state LED with a diffused lens.

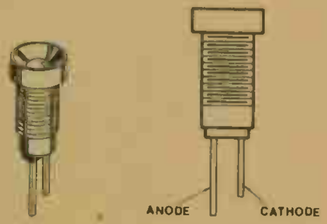


FIGURE 7
This is a subminiature LED indicator with polished chrome reflective holder.

SILICON PHOTOTRANSISTOR **276-130**

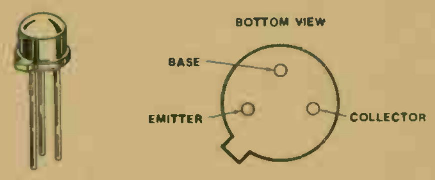
GENERAL DESCRIPTION

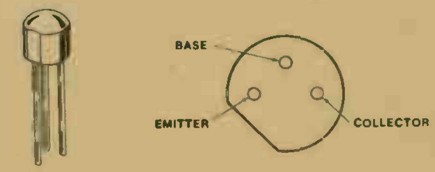
The 3 terminal phototransistor has exceptionally stable characteristics and high illumination sensitivity. The electrically connected base lead increases its applicability to various circuit designs. It features low leakage, low power requirements, TTL/DTL compatibility, a wide sensitivity range and fast response.

ABSOLUTE MAXIMUM RATINGS

Maximum Power Dissipation	
Total Dissipation at 25°C Case Temperature	200 mW
at 25°C Ambient Temperature	100 mW
Maximum Voltages	
V_{CBO} Collector to Base Voltage	50 Volts
V_{CEO} Collector to Emitter Sustaining Voltage	30 Volts
Maximum Current	
I_C Collector Current	25 mA
Maximum Temperature/Humidity	
Operating Junction Temperature	−55 to +85°C
Storage Temperature	−55 to +100°C
Relative Humidity at Temperature	98% to 65°C

PIN CONNECTIONS





The base lead is for testing only, it is not used in normal applications

INFRARED PHOTOTRANSISTOR **TIL414** **276-145**

GENERAL DESCRIPTION

The TIL414 is an NPN silicon phototransistor in A T-1 3/4 style case. It provides high speed and high photosensitivity, suitable for IR switching applications.

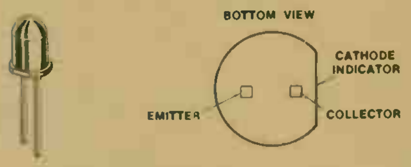
ABSOLUTE MAXIMUM RATINGS

Collector-Emitter Voltage	50 V
Emitter-Collector Voltage	7 V
Power Dissipation	50 mW
Operating Temperature	−40° to +100°C

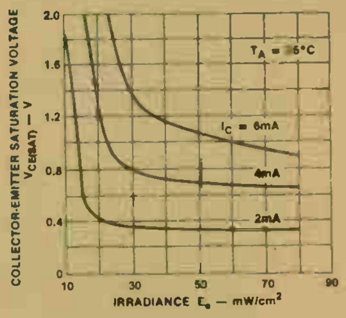
ELECTRICAL CHARACTERISTICS (Typical)

Dark Current (V_{CE} = 30 V)	25 nA
Light Current (V_{CE} = 5 V • E_e = 20mW/cm^2)	7 mA
Collector-Emitter Saturation	0.4 V
Rise Time	8 µs
Fall Time	6 µs

PIN CONNECTION



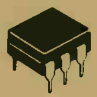
TYPICAL CHARACTERISTICS



Collector-Emitter Saturation Voltage vs Irradiance

MOC3010
276-134

OPTOCOUPLER TRIAC DRIVER



GENERAL DESCRIPTION

This device consists of a gallium-arsenide infrared emitting diode, optically coupled to a silicon bilateral switch and is designed for applications requiring isolated triac triggering, low-current isolated ac switching, high electrical isolation (to 7500 V peak), high detector standoff voltage, small size, and low cost.

INFRARED EMITTING DIODE MAXIMUM RATINGS

Reverse Voltage	3.0 volts
Forward Current—Continuous	50 mA
Total Power Dissipation @ TA = 25°C	100 mW

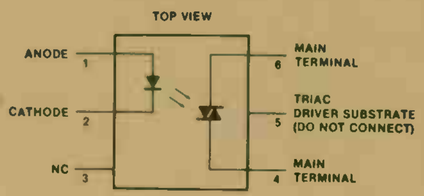
OUTPUT DRIVER MAXIMUM RATINGS

Off-State Output Terminal Voltage	250 Volts
On-State RMS Current TA = 25°C	100 mA
(Full Cycle, 50 to 60 Hz TA = 70°C)	50 mA
Peak Nonrepetive Surge Current (PW = 10ms, DC = 10%)	1.2 A
Total Power Dissipation @ TA = 25°C	300 mW
Derate above 25°C	4.0 mW/°C

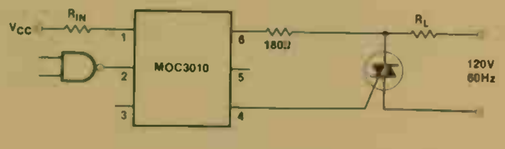
TOTAL DEVICE MAXIMUM RATINGS

Isolation Surge Voltage (1s) (Peak ac Voltage, 60 Hz, 5 Second Duration)	7500 Vac
Total Power Dissipation	330 mW
Junction Temperature Range	−40 to +100°C
Ambient Operating Temperature Range	−40 to +70°C
Storage Temperature Range	−40 to +150°C
Soldering Temperature (10s)	260°C

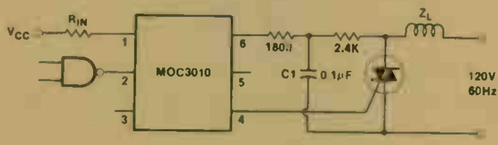
PIN CONNECTION



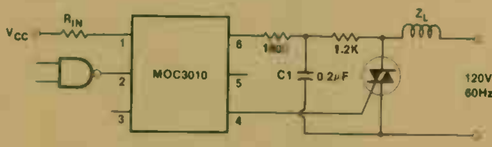
APPLICATIONS



Resistive Load

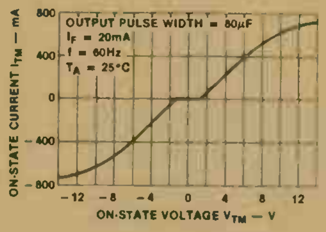


Inductive Load with Sensitive Gate Triac
$(I_{GT} < 15mA)$

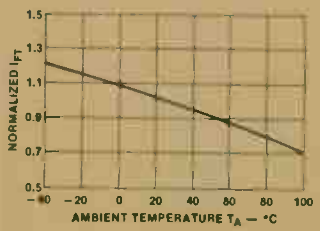


Inductive Load with Non-Sensitive Gate Triac
$(15mA < I_{GT} < 50mA)$

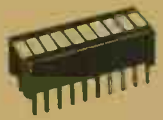
TYPICAL CHARACTERISTICS



On-State Current vs
On-State Voltage



Trigger Current
vs Temperature



HIGH EFFICIENCY RED BAR GRAPH DISPLAY

MV57164
276-081

GENERAL DESCRIPTION

The MV57164 is a 10 segment bar graph display with separate anodes and cathodes for each light segment. The packages are end stackable.

FEATURES

- Large segments, closely spaced
- End stackable
- Fast switching, excellent for multiplexing
- Low power consumption
- Directly compatible with IC's
- Wide viewing angle
- Standard .3" DIP leading spacing

ABSOLUTE MAXIMUM RATINGS
(25°C Free Air Temperature Unless Otherwise Specified)

Power dissipation	750mW
Continuous forward current	
Total	300 mA
Per segment	30 mA
Reverse voltage	
Per segment	6.0 V
Storage and operating temperature	−40 to +85°C
Solder time 5 sec.	260°C

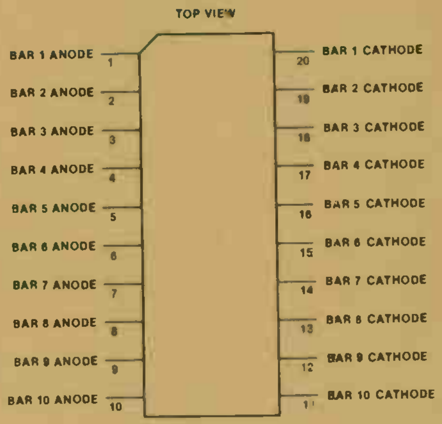
TYPICAL THERMAL CHARACTERISTICS

Thermal resistance junction to free air Φ JA	160°C/W
Wavelength temperature coefficient (case temp)	1.0 Å/°C
Forward voltage temperature coefficient	−2.0 mV/°C

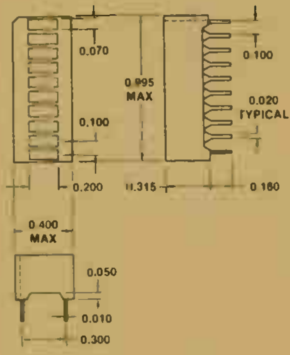
ELECTRO-OPTICAL CHARACTERISTICS

Forward Voltage	2.5 V
Peak emission wavelength	630nm
Spectral line half width	40nm
Dynamic resistance	
Segment	26 ohms
Capacitance	35 pF
Switching Time	400 ns
Reverse Voltage	6.0 V

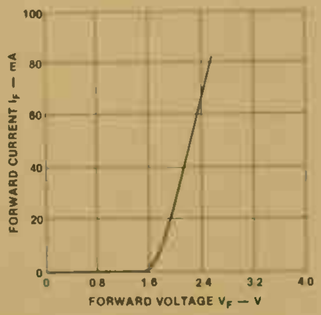
PIN CONNECTION



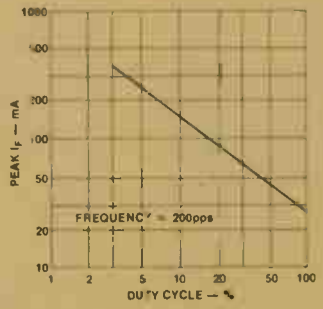
DIMENSIONAL DIAGRAM



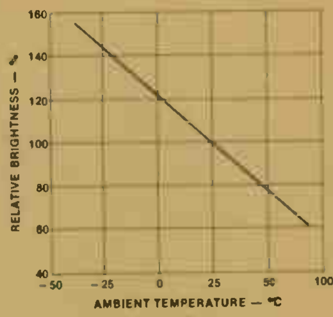
TYPICAL CHARACTERISTICS



Forward Current vs Forward Voltage



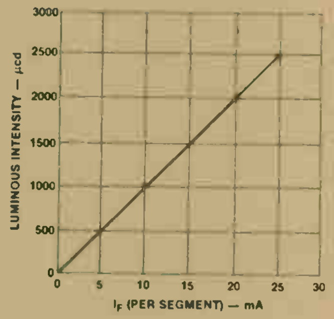
Luminous Intensity vs Forward Current



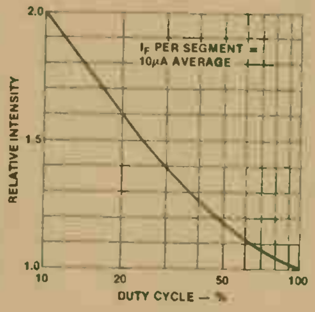
Luminous Intensity vs Ambient Temperature

MV57164 276-081

TYPICAL CHARACTERISTICS (Cont'd)



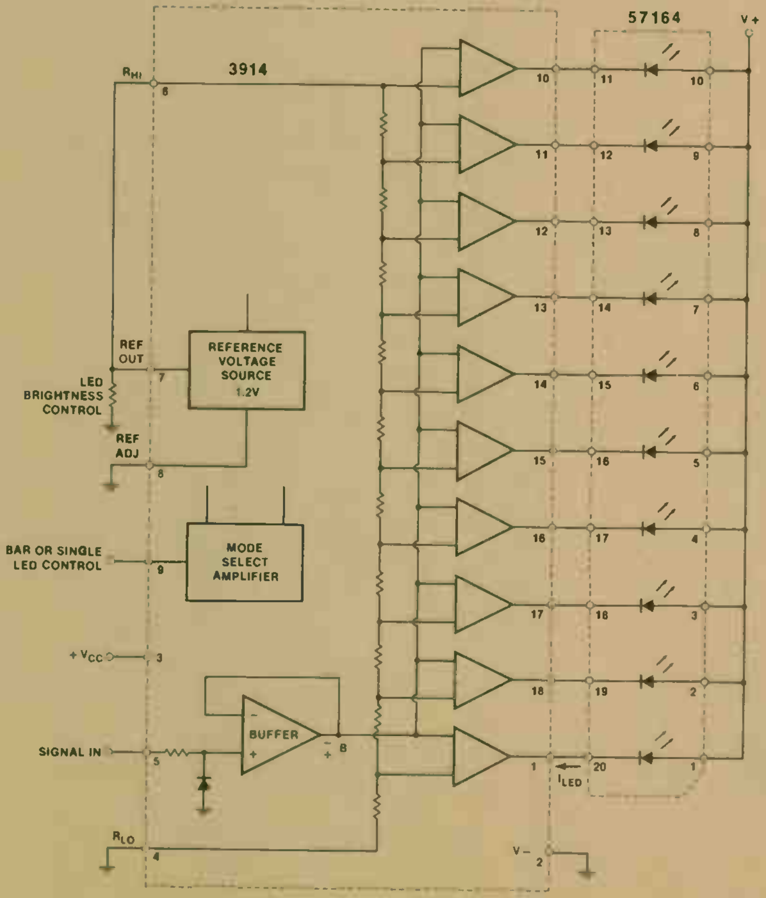
Maximum Peak Current
vs Duty Cycle

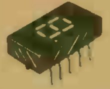


Luminous Intensity
vs Duty Cycle

TYPICAL APPLICATION

Typical Drive Circuit





0.3" SOLID STATE SEVEN SEGMENT DISPLAY **276-053**

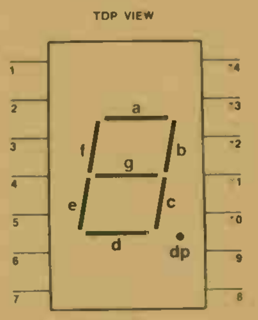
GENERAL DESCRIPTION

The 276-053 is a common anode LED numeric display. The large 0.3" high character size generates a bright, continuously uniform 7 segment display. Designed for viewing distances of up to 10 feet, this single digit display has been human engineered to provide a high contrast ratio and wide viewing angle.

FEATURES

- Fits 14 pin DIP socket
- Excellent character appearance—continuous uniform segments; wide viewing angle, high contrast
- IC compatible—1.6 V per segment
- Standard 0.3" DIP lead configuration; PC board or standard socket mountable
- Both left and right decimal points

PIN CONNECTION



APPLICATIONS

- Electronic calculators
- TVs
- Radios
- Frequency counters
- Digital clocks

RADIANT CHARACTERISTICS (IF=20mA) T_A=25°C

Luminous Intensity . . . . 250 mcd
Wavelength (Peak) . . . . 655 nM

ABSOLUTE MAXIMUM RATINGS

Power Dissipation T_A=25°C . . . . 400 mW
Average Forward Current/Segment or Decimal Pt. T_A=25°C . . . . 25 mA
Peak Forward Current/Segment or Decimal Pt. T_A=12°C
(Pulse Duration 500μs) . . . . 150 mA
Reverse Voltage per Segment or Decimal Pt . . . . 6 V
Operating Temperature Range . . . . −20 to +85°C
Storage Temperature Range . . . . −20 to +85°C
Max Solder Temperature 1/16" Below Seating Plane (t ≤ 5 sec.) . . . . 230°C

COMMON ANODE

PIN	FUNCTION
1	CATHODE a
2	CATHODE f
3	ANODE
4	NO PIN
5	NO PIN
6	CATHODE dp
7	CATHODE e
8	CATHODE d
9	NO CONNECTION
10	CATHODE c
11	CATHODE g
12	NO PIN
13	CATHODE b
14	ANODE

ALTERNATE CONNECTION

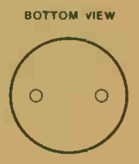
PIN	FUNCTION
1	NO PIN
2	ANODE
3	CATHODE f
4	CATHODE g
5	CATHODE e
6	CATHODE d
7	NO PIN
8	NO PIN
9	ANODE
10	CATHODE dp
11	CATHODE c
12	CATHODE b
13	CATHODE a
14	NO PIN

CADMIUM SULPHIDE PHOTOCELL **276-116**

GENERAL DESCRIPTION

A cadmium sulphide photo cell is a light variable resistor which is most sensitive in the green to yellow portion of the light spectrum. With it you can use light to control many electronic devices. Max. resistance .5 meg., min. resistance 100 ohms. max. voltage 170 V, max. wattage .2 watts, rugged epoxy case.

CONNECTIONS



APPLICATIONS

- Night light
- Light control
- Burglar alarm
- Relay

SPECIFICATIONS

- Shape . . . . Round
- Sensitive Area . . . . .07 sq. in.
- Weight . . . . 1.56 gms.
- Resistance at 1 Ftc (2870°K) . . . . 1.7k Ohms ± 40%
- Typical Resistance 100 Ftc (2870°K) . . . . 100 Ohms
- Resistance Dark Minimum (1 Minute) . . . . 0.5 Megohms

ABSOLUTE MAXIMUM RATINGS

Max. Applied Voltage (ac or dc) . . . . 170 V peak
Max. Power Dissipation at 25°C . . . . 2 watts
Power Derating . . . . Linearly to 0 @ 75°C
Operating Temp Range . . . . −40 to +75°C

276-142 INFRARED EMITTER AND DETECTOR

GENERAL DESCRIPTION

The 276-142 is a pair consisting of an infrared photodetector and an infrared-emitting diode. The diode is capable of emitting radiant energy in the infrared region of the spectrum.

FEATURES

- Spectrally and mechanically matched
- High power efficiency . . . typically 5 percent at 25°C

ABSOLUTE MAXIMUM RATINGS

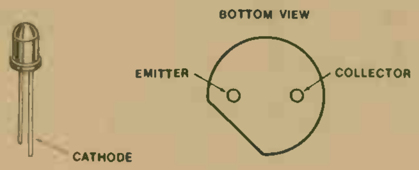
Photodetector

Collector-Emitter Voltage	20V
Collector Current	25mA
Continuous Device Dissipation at (or below) 25°C Free-Air Temperature	50mW
Operating Free-Air Temperature Range	−40 to +80°C
Storage Temperature Range	−40 to +85°C
Lead Temperature 1/16 Inch from Case for 5 Seconds	240°C

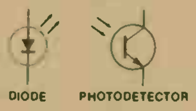
Infrared-Emitting Diode

Reverse Voltage	2V
Continuous Forward Current	40mA
Radiant Power Output	0.5mW
Wavelength at Peak Emission	915mm

PIN CONNECTION



GRAPHIC SYMBOL



276-143 SUPER HIGH OUTPUT INFRARED EMITTER

GENERAL DESCRIPTION

This device is a gallium aluminum arsenide super high output infrared emitting diode. It emits non-coherent. infrared energy at 880 nm and provides significantly improved coupling efficiency to Si photo transistors and photodiodes.

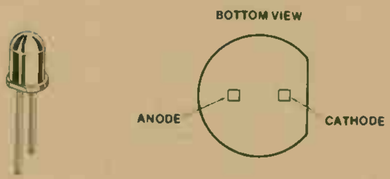
FEATURES

- GaAIAs heterostructure material. Emits at 880 nm
- Super high conversion efficiency/maximum power output
- 2× total radiant power output of 940 nm product
- Increased coupling efficiency to silicon opto devices
- Emits 3 times the energy of conventional IR emitter

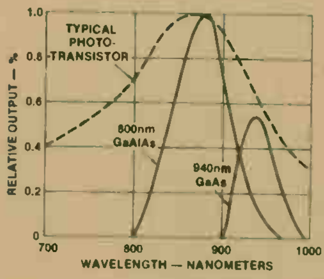
ABSOLUTE MAXIMUM RATING

Average Power Dissipation	75 mW
Average Fwd. Current	45 mA
Reverse Voltage	3.0 V
Peak Pulse Current 100μsec Duration @ 10 pps	0.30 A
Forward Voltage	1.75 V
Temp Coef of Fwd Voltage	−1.8 mV/DC
Dynamic Resistance	1.5 ohms
Angle between Half Power Intensity Points	40°
Peak Wavelength	880 nm
Line Halfwidth	80 nm
Reverse Current. Max. at 25°C.	10μA
Response Time (10% to 90%)	1.5 μs
Operating. Storage. or Process Temp Range	−40 to +85°C
Solder Temp. 5 Sec 1/16 inch from case	260°C

PIN CONNECTION



SPECTRAL MATCHING COMPARISON



Relative Output vs Wavelength

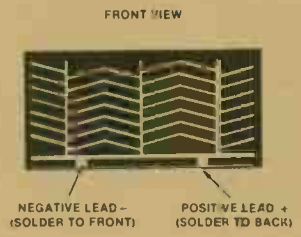
2.5×5cm SILICON SOLAR CELL **276-124**

GENERAL DESCRIPTION

A solar cell is a silicon semiconductor device which converts light energy directly to electricity. A typical 2.5×5cm cell will produce 0.42 volt and up to .18 amp of usable current. The power generated is affected by the load resistance (circuit powered by cell) strength of sunlight and temperature.

Be extremely careful when soldering leads. Use only a very fine wire (#26 or thinner) and use a small soldering iron (less than 50 watts). Solar cells may be connected in series to produce more voltage and in parallel for more current.

CONNECTIONS

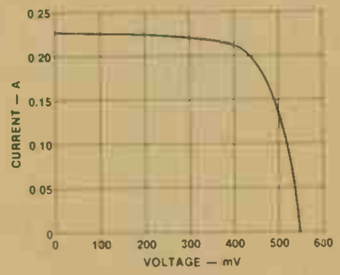


ABSOLUTE MAXIMUM RATINGS

Voltage (Open Circuit):	0.55V
Current (short circuit):	0.2A

(Test conditions: Full sunlight at noon on a clear day at 25°C (76°F))

TYPICAL CHARACTERISTICS



Current vs Voltage

5¾ x 4 in SILICON SOLAR PANEL **277-1250**

GENERAL DESCRIPTION

This solar panel is a silicon semiconductor device which converts light energy directly into electricity. The 5¾" × 4" panel will produce a minimum of 40 mA with the switch in the 12 V position or 80 mA in the 6 V position. The power generated is affected by load resistance (circuit powered by panel), strength of sunlight and temperature.

ABSOLUTE MAXIMUM RATINGS

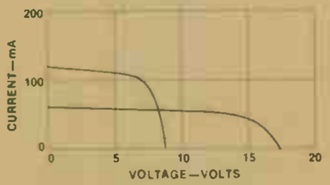
6V Mode

No Load Voltage (Open Circuit)	8.6 V
No Load Current (Short Circuit)	122 mA
Voltage (200 Ω Load)	8.0 V
Current (200 Ω Load)	42 mA

12V Mode

No Load Voltage (Open Circuit)	17.5 V
No Load Current (Short Circuit)	60 mA
Voltage (200 Ω Load)	10.5 V
Current (200 Ω Load)	52 mA

TYPICAL CHARACTERISTICS



Current vs Voltage

UM1285-8
277-221

VHF MODULATOR

GENERAL DESCRIPTION

The UM1285-8 is a high performance intercarrier vestigial sideband modulator which is primarily intended for use in color TV games, home computer, graphics, teletext and view data adapters. The modulator has a very linear transfer characteristic which ensures good chroma levels and freedom from sync compression and associated frame and line jitter problems, good subcarrier inter modulation performance minimizes the on screen bar pattern due to chroma and sound subcarrier beats.

FEATURES

- Compact & low profile
- Rugged & stable
- Good modulation linearity
- Low chroma sound beat product (55 dB typ)
- Pretuned vision carriers Ch 3, Ch 4
- Pretuned sound subcarrier 4.5 MHz
- Pretuned vestigial sideband filter
- Built-in voltage regulator
- Negative transfer characteristic
- For color application
- 75 ohm output from a standard phono socket

ABSOLUTE MAXIMUM RATINGS

Voltage between Pin 1, 3, 4, and Case Ground	– 3.0 to + 15 V
Voltage between Pin 3 and V_{CC}	– 3.0 to + 8.0 V
(Refer to table for high voltage application.)	
Operating Temperature Range	0 to + 45°C
Storage Temperature Range	– 20 to + 70°C

ELECTRICAL CHARACTERISTICS

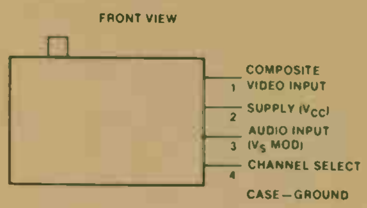
V_{CC}	+ 5.8 to 6.2 V
(Refer to table for higher supply voltage application.)	
RF Output Load	75Ω
Channel 3 Video Carrier	61.25 MHz
Channel 4 Video Carrier	67.65 MHz
Sound Carrier	4.500 MHz
Video Carrier output (Vmod = 2.2 V)	1.5 mVrms
Video Carrier output (Vmod = 2.8 V)	18 dB WRT V_O(HI)
Sound Carrier output	22 dB WRT V_O(HI)
Spurious Harmonic	30 dB WRT V_O(HI)
Voltage Standing Wave Ratio (CH 3 and CH 4)	1.7
ΔF for Change in Temperature	±10 kHz/°C
ΔF for Change in Temperature	±750 Hz/°C
ΔF for 1 Volt Change in V_{CC}	±30 kHz/V
ΔF for 1 Volt Change in V_{CC}	±5 kHz/V
RF Output Impedance	75Ω
– 3DB Bandwidth (RF)	
CH 3	14 MHz
CH 4	5.0 MHz
Supply Current	30 mA
Frequency modulating	8 kHz/Volt
Sensitivity Chroma/Sound Beat Level	55 dB WRT V_O(HI)

TABLE

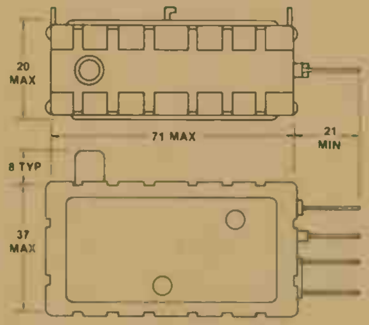
Supply Voltage V_{CC}	Volt	6.0	7.5	9.0	12.0	15.0
Series Resistor R_S	Ohm	0	47	100	180	270

Series resistor with respect to supply voltage

PIN CONNECTION

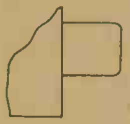


DIMENSIONAL DIAGRAM

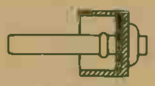


Dimensions in mm

RF OUTPUT SOCKET



Phono Socket



Typical Phono Plug

UM1285-5 277-221

TYPICAL CHARACTERISTICS

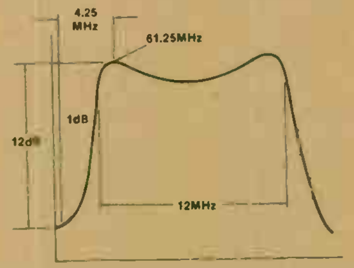
The UM1285-8 is designed to work over a wide range of supply voltage from 6 to 15 V (V_{CC}). A built-in 5.0 V (V_{DD}) voltage regulator is provided to achieve excellent stability against voltage change. A series resistor is recommended in putting between power source and modulator supply input for purpose of current limiting.

Modulation occurs when a positive going voltage is applied to the modulation input (video) pin. The transfer characteristic is negative, that means a positive input causes the RF output to decrease. Peak RF output is specified when the video input is at 2.2 V.

RF channel frequency of Ch 3 or Ch 4 can be selected by connecting channel select pin to ground level (0V) to have Ch 3, or open connection to have Ch 4.

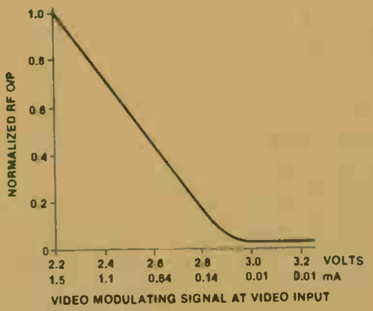
FCC APPROVABLE

The UM1285-8 is FCC approvable due to its very low radiation, stabilized carrier oscillators and vestigial side bank filter which ensures all side band components outside FCC limits are greater than 30 dB down.



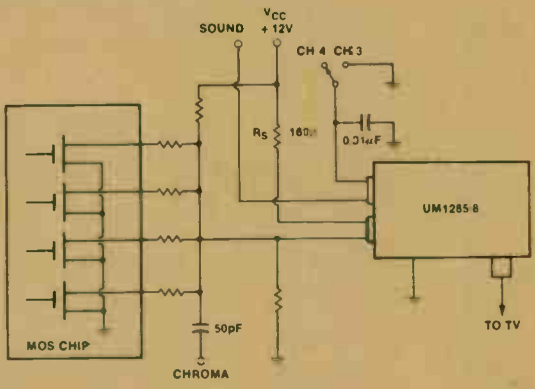
*Note: Subcarriers are > 18dB down wrt carrier at input to bandpass filter giving maximum out of band level of - -30dB wrt carrier.

Typical Bandpass Filter Response

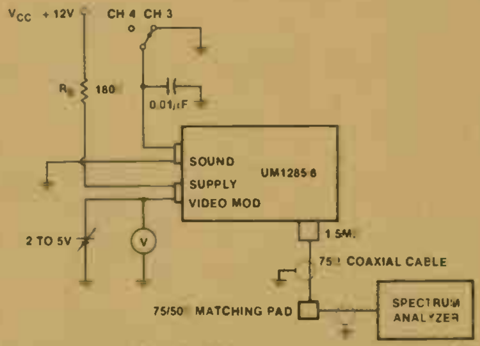


Typical Transfer Characteristic

TYPICAL APPLICATIONS



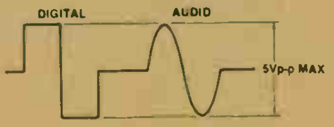
Typical Application



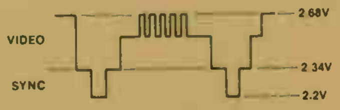
Note 1 In case of testing with 50Ω I/P spectrum analyzer matching pad 75/50 (attenuation 10dB) shound be employed
2 Standard RF coaxial cable should be 1.5 meters long and 75Ω characteristic impedance

Test Circuit

TYPICAL INPUT WAVEFORMS



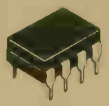
Sound I/P Setup



Modulated Input Voltage Setup

TCM1512A
276-1302

RING DETECTOR/DRIVER

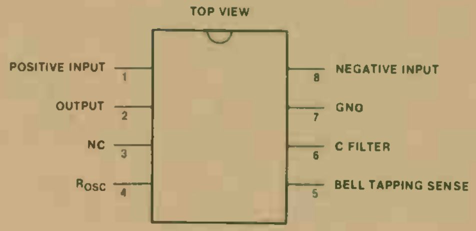


GENERAL DESCRIPTION

The TCM1512A integrated circuit is designed for use as an alerting device in the line powered telephone. The IC (with a minimum of external components) is powered and activated by the telephone line's AC "ring" voltage to generate a signal suitable for driving piezo-electric "sound disc" transducers. In a typical telephone application this AC ring voltage can vary from 40 to 150 V_{RMS} over a frequency range of 14 to 68 Hz. The output signal is a square wave alternating between two frequencies in a ratio 1.14:1; and with the average of these two frequencies set at 1250 Hz, a "warble" rate or shift rate of approximately 10 Hz.

During standby (prior to activation) the ringer presents an impedance of 100K or greater to prevent any interference with parallel "offhook" telephones transmitting DTMF or voice frequencies. The IC is designed to handle lightning strikes on the line of 1500 V, 200 μsec duration. In addition, dial pulses from parallel phones are ignored so a false ringing of the bell (tapping) won't occur.

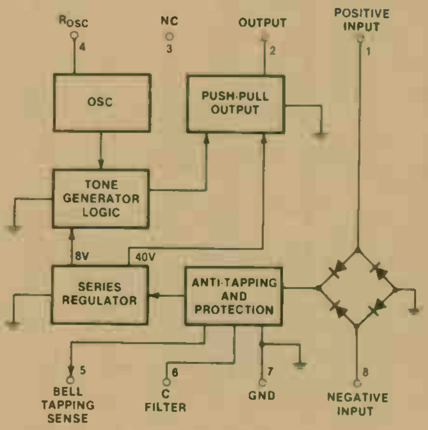
PIN CONNECTION



FEATURES

- On-chip full-wave rectifier
- High standby impedance
- Built-in lightning protection circuitry
- Built-in anti-"tapping" circuitry
- Built-in regulators
- Built-in static protection
- 0.8 through 2 kHz output frequency range
- Low external component count
- Push-pull drive of piezo transducers

BLOCK DIAGRAM



ABSOLUTE MAXIMUM RATINGS

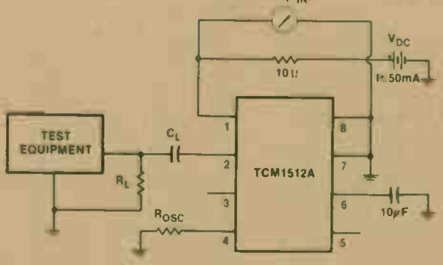
Continuous Input Voltage (Pin 1 ref. to Pin 8) (See note)	70 V
Continuous V_{CC} Supply (Pin 6 ref. to Pin 7) (See note)	63 V
Package Power Capability @25°C	1 W
Surge SCR On-STate Current (On-Time ≤ 200 μsec)	0.9 A.
Continuous Input Current (with SCR Triggered) (See note)	0.5 A_{RMS}.
Operating Ambient Temperature	−20 to +70°C
Storage Ambient Temperature	−40 to +150°C

NOTE: Normally the IC is fed with an AC signal through a 2.2K resistor to guarantee compliance with these maximum ratings. Care should be taken when connecting a DC power supply to the IC to prevent the internal SCR from being fired which could result in damage to the IC.

TEST CIRCUIT

An oscilloscope can be used as the output "test equipment" for all the electrical measurements except output frequency, where a frequency counter should be used.

1. V_{IN} is the voltage measured across Pins 1 & 8 of the integrated circuit.
2. Threshold voltage is the input voltage V_{IN} measured the instant before the output (Pin 2) starts oscillating.
3. Care must be taken in attempting to measure SCR characteristics of the integrated circuit so as not to exceed absolute maximum. It is suggested that a curve tracer be used across Pins 1 & 8 with capacitor connection Pin 6 shorted to Pin 7 to simulate a standby transient effect of a discharged 10 μF filter capacitor.
4. DC output currents are measured in the steady state. Peak output current would normally be greater than specified.
5. The output frequency is measured across R_L using a frequency counter. The frequency counter measures and displays the average frequency of the output tones F_{AVG} (where F_{AVG} = the average of the high frequency of the low frequency which is integrated by the counter over a long period of time).
6. Oscillator drift is the deviation in output frequency due to change in temperature T_A or input voltage V_{IN} compared to the output frequency at T_A = 25°C and V_{IN} = 30 V. R_{OSC} is varied until the average output frequency F_{AVG} = 1250 Hz.
7. For most tests, Pin 5 is left open. Where specified, Pin 5 is activated by connecting a 2.2K resistor across Pins 5 & 6.



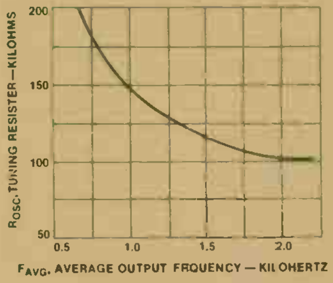
Test Circuit

TCM1512A 276-1302

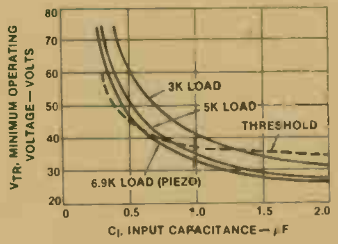
TYPICAL CHARACTERISTICS

This first graph shows the typical average output frequency vs. oscillator tuning resistor (R_{OSC}). The curve shows the general trend that the IC's follow; however, the values will differ from IC to IC. The curve should not be used as an accurate design tool since IC's could vary more than ± 10% from the values given in this graph.

The second graph shows the minimum operating voltage at tip and ring (20 Hz) vs. input capacitance C1 as a function of load resistance. The dashed curve marked "threshold" shows the voltage necessary at tip and ring to produce a voltage between pin 6 and 7 large enough to trip an internal switch and start the output oscillating. However, depending on the load and input capacitance, the minimum operating voltage could be larger than the threshold voltage. The threshold voltage can turn the IC on for an instant until the load drains the 10 μF capacitor across pins 6 and 7 and then the IC would turn off again. Depending on R_{LOAD} and C1, the minimum operating voltage could be the true threshold voltage.



Tuning Resistor vs
Average Output Frequency



Minimum Operating Voltage
vs Input Capacitance

TYPICAL APPLICATIONS

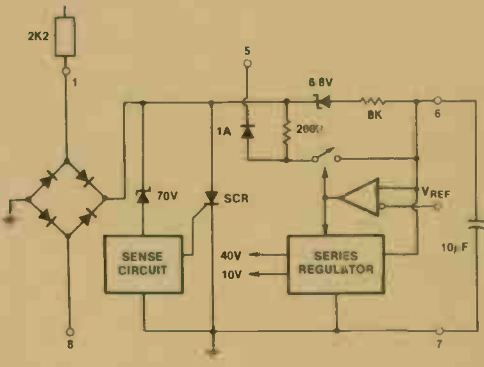
Input Circuitry

The TCM1512A has built-in circuitry to avoid "tapping," a false triggering due to transients. The IC is kept "OFF" (in standby) until the incoming signal has charged the capacitor on pins 6 and 7 to a threshold of approximately 8 volts through an internal zener and 8K resistor.

Connecting pin 5 and pin 6 bypasses the internal zener and thus reduces the threshold voltage, (V_{IN}). The connection, if made, should be with a resistor of not less than 2K.

The ring detector/driver IC has built-in transient protection circuitry which (with appropriate external circuitry) is designed to handle lightning strikes (1500 V/200 μsec) on a phone line. The IC is made up of a high current SCR triggered by a circuit that senses current (typically 70 mA) through the 70 V on-chip zener. The external 2.2K resistor is a necessary component to dissipate the energy when the SCR is turned on. Therefore, with an external resistor of 2.2K, a voltage transient of 224 V (peak) from tip to ring, will fire the SCR. (2200 Ω × 0.07 A Pk) + 70 V = 224 V (Pk), Note: Caution is required when a DC power supply is connected to the input pins (1 and 8). If the IC is subjected to a transient, it could possibly fire the SCR and would not turn off until the current supplied to it falls below the holding current I_H. The DC power supply provides constant current and would result in IC destruction.

The ring detector/driver IC has a standby impedance of greater than 100K. The IC achieves such a high impedance due to an on-chip series zener which presents a high impedance until its turn-on voltage (6.8V) is reached. However, when the IC reaches its threshold voltage (8V) across pins 6 and 7, an internal switch is closed which bypasses the 6.8 V zener. This allows for more efficient power transfer to the load when the IC is in the operating mode. In the operating mode the IC has an AC impedance determined largely from the output load.

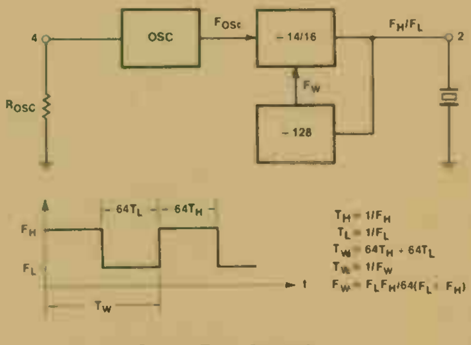


Input Circuitry

Output Tone Operation

The external resistor R_{OSC} sets the frequency of the IC's oscillator. The oscillator frequency F_{OSC} is then divided by a divide-by-14 counter for the high frequency F_H and a divide-by-16 counter for the low frequency F_L. The output frequencies are then divided by a divide-by-128 counter to establish the "warble rate." The warble rate is the alternation between the high frequency F_H and the low frequency F_L. Therefore, by changing the oscillator resistor R_{OSC}, the pitch of the output tones (F_H/F_L) and the warble rate between the tones can be set to the desired value. Oscillator drift is kept to a minimum (−1% to ±0.5%) during varying input voltages and operating temperatures due to an on-chip 10 V regulator and circuit design techniques. Tolerance of the output frequencies (F_H/F_L) from IC to IC are dependent upon IC tolerances and R_{OSC} tolerance and is normally in excess of ± 10%.

Oscillator Stability: It is recommended that on PCB's, R_{OSC} be located close to pin 4 (short lead) and be surrounded by ground plane. Also, pin 3 (N/C) should be grounded. These measures will prevent capacitive coupling from the output to the master oscillator, which may cause oscillator instability.



Output Tone Operation

TCM1512A 276-1302

TYPICAL APPLICATIONS (Cont'd)

Telephone Application

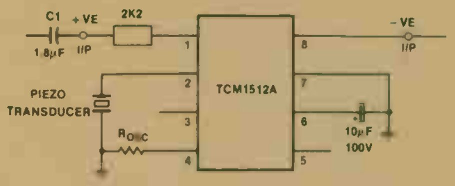
The primary application for the TCM1512A ring detector/driver IC is in the telephone set.

This TCM1512A ring detector/driver IC is designed for use in telephone sets to detect ring voltages and to drive a piezo-ceramic disc transducer, thus replacing the electromechanical bell. It can produce sound with efficiency comparable to that obtainable from a type 500 set. The typical output signal produces a pleasant but attention drawing sound with an average frequency of 1250 Hz. It is modulated between 1172 Hz and 1339 Hz at a 9.8 Hz warble rate. These output frequencies and the warble rate are adjustable by varying the value of the external R_{OSC}.

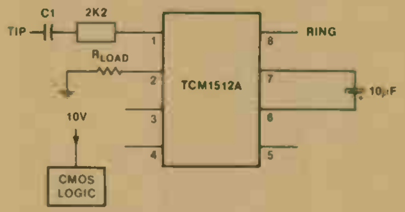
The network formed by the 1.8 μF DC blocking capacitor, the 2.2K current limiting resistor, and the diode full wave bridge supply the IC power from the phone lines. The 1.8 μF capacitor is "standard" with U.K. mechanical telephones and normally part of the hybrid network. The value of the capacitor (C1) affects turn-on time and the minimum input voltage. The incoming rectified AC signal is filtered by an external 10 μF/100 V capacitor connected between pin 6 and 7. The value of this filter capacitor affects the turn-on time of the IC. More significantly, it is used with internal IC circuitry to suppress "tapping." Tapping is a false ringing of the bell due to pulses on the phone line from rotary dials or pulse dialing IC's.

The TCM1512A incorporates a high standby input impedance to assure that "on-hook" telephones will not interfere with parallel (extension) "off-hook" telephones transmitting DTMF or voice frequency signals. Industry standards specify < 100K for voice frequencies (700 Hz - 1.6 kHz) for input voltages up to 3 V_{RMS}. The impedance for operating voltages (during ring) is specified to be < 8K. The TCM1512A meets both of these requirements. The DC blocking capacitor (C1) and the filter capacitor could modify the value of the ringer input impedances. The more closely the load and IC impedance match the line impedance, the greater the power transfer to the load. A potentiometer in series with the piezo load could be useful as a volume control.

The minimum operating voltage at tip and ring can be altered by changing the value of two external components, C1 and R_{LOAD}. C1 is the DC blocking capacitor at tip and ring and R_{LOAD} is the equivalent resistance of the load which may be a piezo transducer or the primary winding of a transformer. In the electromechanical telephone, C1 is fixed at 1.8 μF. However, if one is designing an all electronic telephone C1 and R_{LOAD} could be selected to achieve the desired minimum operating voltage.



Telephone Application of Ring Detector/Driver

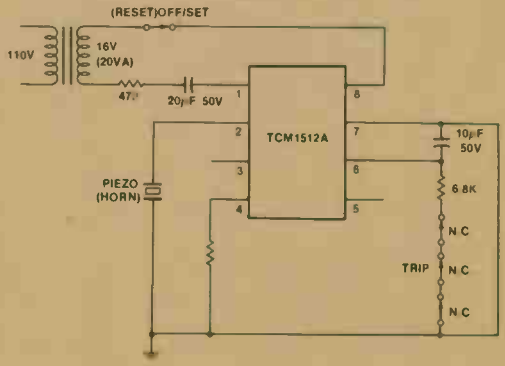


Input/Output Circuitry

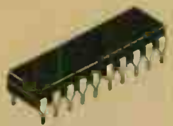
Alarm Circuit

This device contains all the active components necessary to build a security alarm system. A few external capacitors and resistors are required, along with a 16 V or 24 V transformer. The external 20 μF capacitor stores voltage during alternate half-cycles that is added to the next half-cycle's voltage to generate 30 V (Pk) across pins 6 and 7. The voltage doubler allows the IC to turn on with lower supply voltages than are normally required.

The IC is in standby (Off) when the "trip" switches are in their normally closed position. The 6.8K resistor doesn't allow the 10 μF capacitor (pins 6 and 7) to charge up to its 11.5 V threshold voltage. The instant the trip switch is opened, the capacitor charges and the alarm sounds. Even if the trip switch is closed, the alarm will continue to sound. This is due to a latch circuit internal to the IC. The alarm is disarmed by opening the reset/set switch. when using a "piezo horn" for a transducer, sound pressure levels of 105 dB or greater can be achieved with as little as 10 mA supply current.



Alarm Circuit



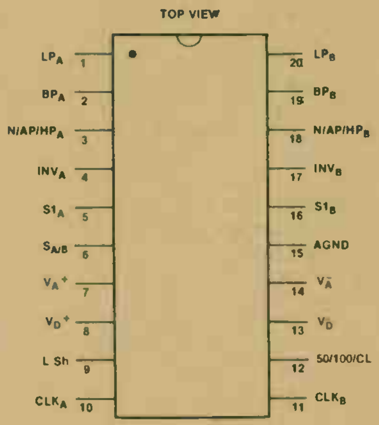
UNIVERSAL MONOLITHIC DUAL SWITCHED CAPACITOR FILTER

MF10
276-2329

GENERAL DESCRIPTION

The MF10 consists of 2 independent and extremely easy to use, general purpose CMOS active filter building blocks. Each block, together with an external clock and 3 to 4 resistors, can produce various 2nd order functions. Each building block has 3 output pins. One of the outputs can be configured to perform either an allpass, highpass or a notch function; the remaining 2 output pins perform lowpass and bandpass functions. The center frequency of the lowpass and bandpass 2nd order functions can be either directly dependent on the clock frequency, or they can depend on both clock frequency and external resistor ratios. The center frequency of the notch and allpass functions is directly dependent on the clock frequency, while the highpass center frequency depends on both resistor ratio and clock. Up to 4th order functions can be performed by cascading the two 2nd order building blocks of the MF10; higher than 4th order functions can be obtained by cascading MF10 packages. Any of the classical filter configurations (such as Butterworth, Bessel, Cauer and Chebyshev) can be formed.

PIN CONNECTION



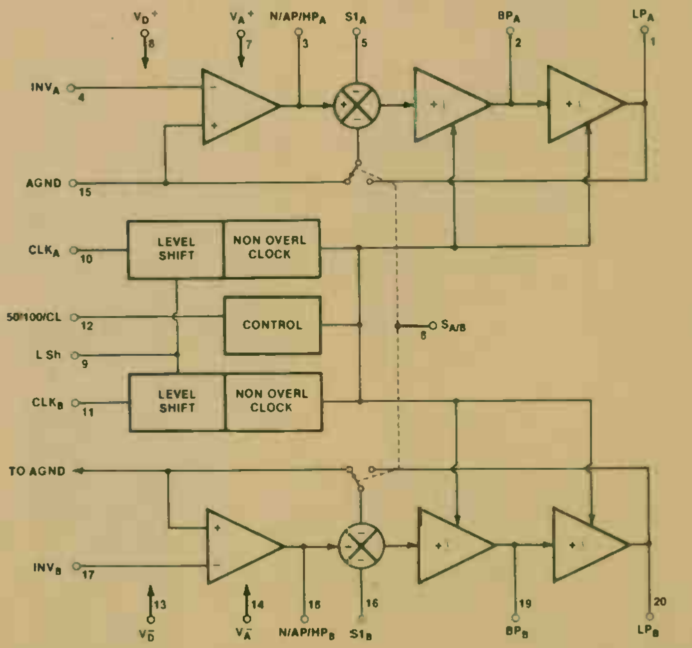
FEATURES

- Low cost
- 20-pin 0.3″ wide package
- Easy to use
- Clock to center frequency ratio accuracy=0.6%
- Filter cutoff frequency stability directly dependent on external clock quality
- Low sensitivity to external component variation
- Separate highpass (or notch or allpass), bandpass, lowpass outputs
- $f_o \times Q$ range up to 200 kHz
- Operation up to 30 kHz

ABSOLUTE MAXIMUM RATINGS

Supply Voltage	7V
Power Dissipation	500mW
Operating Temperature	0 to 70°C
Storage Temperature	150°C
Lead Temperature (Soldering, 10 sec.)	300°C

BLOCK DIAGRAM



MF10 276-2329

TYPICAL APPLICATIONS

Mode 1A: Non-Inverting Bandpass, Inverting Bandpass, Lowpass

This is a minimum external component configuration (only 2 resistors) useful for low Q lowpass and bandpass applications. The non-inverting bandpass output is necessary for minimum phase filter designs.

Design Equations

$$f_o = \frac{f_{CLK}}{100} \text{ or } \frac{f_{CLK}}{50} \qquad H_{OBP_1} = -\frac{R3}{R2}$$

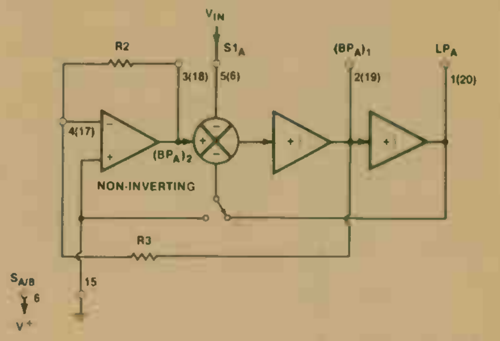
$$Q = \frac{R3}{R2} \qquad H_{OBP_2} = 1 \text{ (non-inverting)}$$

$$H_{OLP} = -1$$

Circuit Dynamics

$H_{OBP_1} = Q$ (this is the reason for the low Q recommendation)

$H_{OLP\,(peak)} = Q \times H_{OLP}$



Mode 1A

Mode 1: Notch, Bandpass and Lowpass

With the addition of just one more external resistor, the output dynamics are improved over Mode 1A to allow bandpass designs with a much higher Q. The notch output features equal gain above and below the notch frequency.

Design Equations

$$f_o = \frac{f_{CLK}}{100} \text{ or } \frac{f_{CLK}}{50} \qquad H_{OLP} = -\frac{R2}{R1}$$

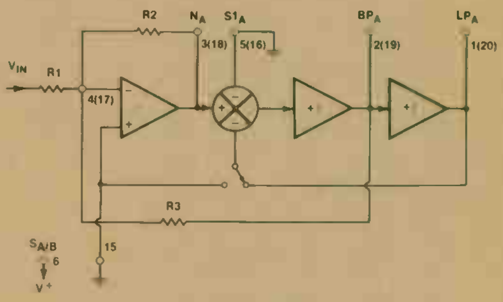
$$f_{notch} = f_o \qquad H_{OBP} = -\frac{R3}{R1}$$

$$Q = \frac{R3}{R2} \qquad H_{ON} = -\frac{R2}{R1} \text{ as } f \rightarrow 0 \text{ and as } f \rightarrow \frac{f_{CLK}}{2}$$

Circuit Dynamics

$H_{OBP} = H_{OLP} \times Q = H_{ON} \times Q$

$H_{OLP(peak)} = Q \times H_{OLP}$ (if the DC gain of the LP output is too high, a high Q value could cause clipping at the lowpass output resulting in gain non-linearity and distortion at the bandpass output).



Mode 1

Mode 2: Notch (with $f_n \leq f_0$), Bandpass and Lowpass

This configuration allows tuning of the clock to center frequency ratio to values greater than 100 to 1 or 50 to 1. The notch output is useful for designing elliptic highpass filters because the frequency of the required complex zeros (f_{notch}) is less than the frequency of the complex poles (f_o).

Design Equations

$$f_o = \frac{f_{CLK}}{100}\sqrt{1 + \frac{R2}{R4}} \text{ or } \frac{f_{CLK}}{50}\sqrt{1 + \frac{R2}{R4}} \qquad H_{OBP} = -\frac{R3}{R1}$$

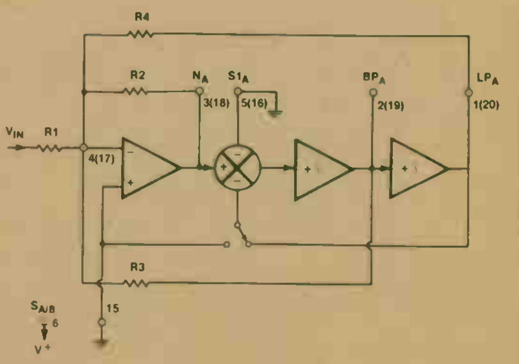
$$f_n = \frac{f_{CLK}}{100} \text{ or } \frac{f_{CLK}}{50}$$

$$Q = \sqrt{1 + \frac{R2}{R4}} \times \frac{R3}{R2} \qquad H_{ON_1} (\text{as } f \rightarrow 0) = \frac{-\frac{R2}{R1}}{1 + \frac{R2}{R4}}$$

$$H_{OLP} = \frac{-\frac{R2}{R1}}{1 + \frac{R2}{R4}} \qquad H_{ON_2}\left(\text{as } f \rightarrow \frac{f_{CLK}}{2}\right) = -\frac{R2}{R1}$$

Circuit Dynamics

$$H_{OBP} = Q\sqrt{H_{OLP} \times H_{ON_2}} = Q\sqrt{H_{ON_1} \times H_{ON_2}}$$

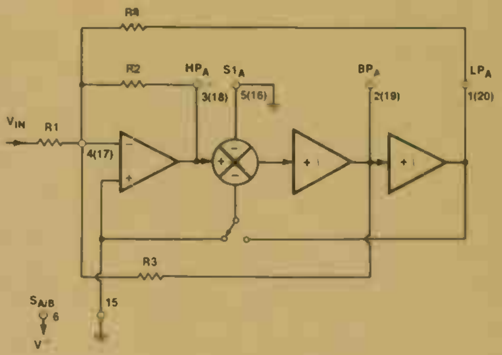


Mode 2

TYPICAL APPLICATIONS (Cont'd)

Mode 3: Highpass, Bandpass and Lowpass

This configuration is the classical state variable filter implemented with only 4 external resistors. This is the most versatile mode of operation, since the clock to center frequency ratio can be externally tuned either above or below the 100 to 1 or 50 to 1 values. The circuit is suitable for multiple stage Chebyshev filters controlled by a single clock.



Mode 3

Design Equations

$$f_o = \frac{f_{CLK}}{100}\sqrt{\frac{R2}{R4}} \text{ or } \frac{f_{CLK}}{50}\sqrt{\frac{R2}{R4}} \qquad H_{OBP} = -\frac{R3}{R1}$$

$$Q = \sqrt{\frac{R2}{R4}} \times \frac{R3}{R2} \qquad H_{OLP} = -\frac{R4}{R1}$$

$$H_{OHP} = -\frac{R2}{R1}$$

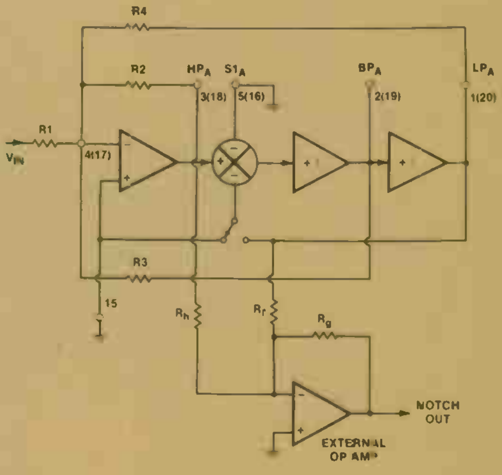
Circuit Dynamics

$$H_{OHP} = H_{OLP}\left(\frac{R2}{R4}\right) \qquad H_{OBP} = Q\sqrt{H_{OHP} \times H_{OLP}}$$

$$H_{OLP\,(peak)} = Q \times H_{OLP} \qquad H_{OHP\,(peak)} = Q \times H_{OHP}$$

Mode 3A: Highpass, Bandpass, Lowpass and Notch

A notch output is created from the circuit of Mode 3 by summing the highpass and lowpass outputs through an external op amp. The ratio of the summing resistors R_h and R_l adjusts the notch frequency independent of the center frequency. For elliptic filter designs, each stage combines a complex pole pair (at f_o) with a complex zero pair (at f_{notch}) and this configuration provides easy tuning of each of these frequencies for any response type. When cascading several stages of the MF10 the external op amp is needed only at the final output stage. The summing junction for the intermediate stages can be the inverting input of the MF10 internal op amp.



Mode 3A

Design Equations

$$f_o = \frac{f_{CLK}}{100}\sqrt{\frac{R2}{R4}} \text{ or } \frac{f_{CLK}}{50}\sqrt{\frac{R2}{R4}} \qquad H_{OBP} = -\frac{R3}{R1}$$

$$Q = \sqrt{\frac{R2}{R4}} \times \frac{R3}{R2} \qquad H_{ON}\,(\text{at } f = f_o) = \left|Q\left(\frac{R_g}{R_l}H_{OLP} - \frac{R_g}{R_h}H_{OHP}\right)\right|$$

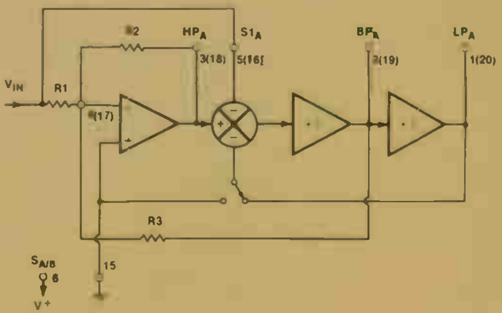
$$f_{notch} = \frac{f_{CLK}}{100}\sqrt{\frac{R_h}{R_l}} \text{ or } \frac{f_{CLK}}{50}\sqrt{\frac{R_h}{R_l}} \qquad H_{ON_l}\,(\text{as } f \rightarrow 0) = \frac{R_g}{R_l} \times H_{OLP}$$

$$H_{OHP} = -\frac{R2}{R1} \qquad H_{ON_h}\left(\text{as } f \rightarrow \frac{f_{CLK}}{2}\right) = \frac{R_g}{R_h} \times H_{OHP}$$

$$H_{OLP} = -\frac{R4}{R1}$$

Mode 4: Allpass, Bandpass and Lowpass

Utilizing the $S1_A$ ($S1_B$) terminal as a signal input, an allpass function can be obtained. An allpass can provide a linear phase change with frequency which results in a constant time delay. This configuration restricts the gain at the allpass output to be unity.



Mode 4

Design Equations

$$f_o = \frac{f_{CLK}}{100} \text{ or } \frac{f_{CLK}}{50} \qquad H_{OAP} = -\frac{R2}{R1} = -1$$

f_z (frequency of complex zero pair) $= f_o$ $\qquad H_{OLP} = -\left(\frac{R2}{R1} + 1\right) = -2$

$$Q = \frac{R3}{R2} \qquad H_{OBP} = -\left(1 + \frac{R2}{R1}\right)\frac{R3}{R2} = -2\,\frac{R3}{R2}$$

Q_z (Q of complex zero pair) $= \frac{R3}{R1}$

Circuit Dynamics

$$H_{OBP} = H_{OLP} \times Q = (H_{OAP} + 1)Q$$

MF10 276-2329

TYPICAL APPLICATIONS (Cont'd)

Mode 5: Complex Zeros (C.z), Bandpass and Lowpass

This mode features an improved allpass design over that of Mode 4, in that it maintains a more constant amplitude with frequency at the complex zeros (C.z) output. The frequencies of the pole pair and zero pair are resistor tunable.

Design Equations

$$f_o = \frac{f_{CLK}}{100}\sqrt{1+\frac{R2}{R4}} \text{ or } \frac{f_{CLK}}{50}\sqrt{1+\frac{R2}{R4}}$$

$$f_z = \frac{f_{CLK}}{100}\sqrt{1-\frac{R1}{R4}} \text{ or } \frac{f_{CLK}}{50}\sqrt{1-\frac{R1}{R4}}$$

$$Q = \frac{R3}{R2}\sqrt{1+\frac{R2}{R4}}$$

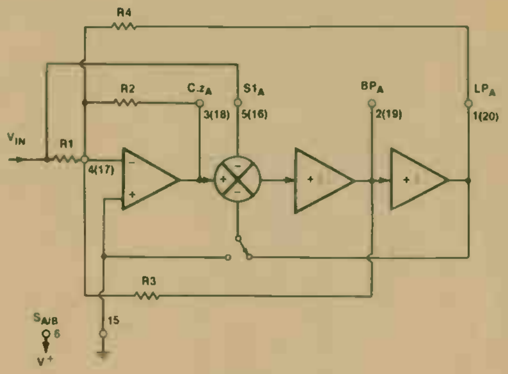
$$Q_z = \frac{R3}{R1}\sqrt{1-\frac{R1}{R4}}$$

$$H_{O(C.z)} \text{ as } f \to 0 = \frac{R2(R4-R1)}{R1(R2+R4)}$$

$$H_{O(C.z)} \text{ as } f \to \frac{f_{CLK}}{2} = \frac{R2}{R1}$$

$$H_{OBP} = \frac{R3}{R2}\left(1+\frac{R2}{R1}\right)$$

$$H_{OLP} = \frac{R4}{R1}\left(\frac{R2+R1}{R2+R4}\right)$$



Mode 5

Mode 6A: Single Pole, Highpass and Lowpass

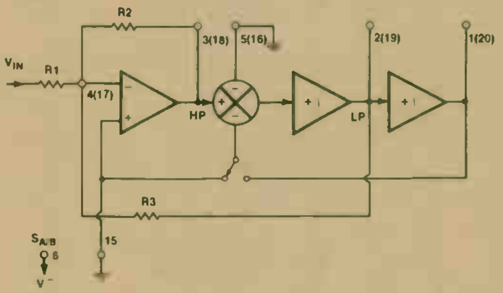
By using only one of the internal integrators, this mode is useful for creating odd-ordered cascaded filter responses by providing a real pole that is clock tunable to track the resonant frequency of other 2nd order MF10 sections. The corner frequency is resistor tunable.

Design Equations

$$f_c \text{ (cut-off frequency)} = \frac{f_{CLK}}{100}\left(\frac{R2}{R3}\right) \text{ or } \frac{f_{CLK}}{50}\left(\frac{R2}{R3}\right)$$

$$H_{OLP} = -\frac{R3}{R1}$$

$$H_{OHP} = -\frac{R2}{R1}$$



Mode 6A

Mode 6B: Single Pole Lowpass (Inverting and Non-Inverting)

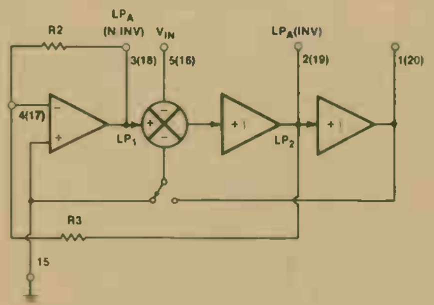
This mode utilizes only one of the integrators for a single pole lowpass, and the input op amp as an inverting amplifier, to provide non-inverting lowpass output. Again, this mode is useful for designing odd-ordered lowpass filters.

Design Equations

$$f_c \text{ (cut-off frequency)} = \frac{f_{CLK}}{100}\left(\frac{R2}{R3}\right) \text{ or } \frac{f_{CLK}}{50}\left(\frac{R2}{R3}\right)$$

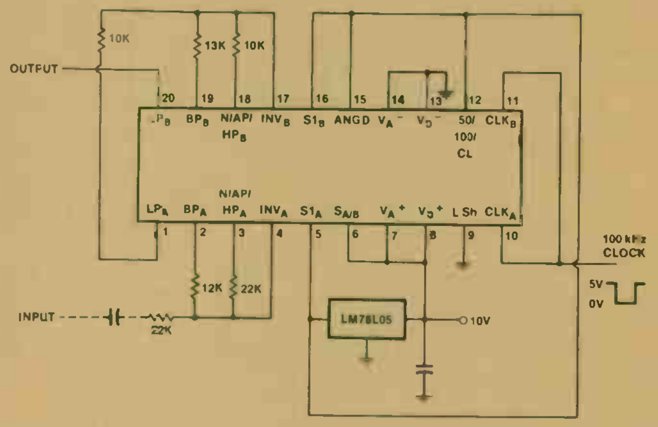
$$H_{OLP} \text{ (inverting output)} = -\frac{R3}{R2}$$

$$H_{OLP} \text{ (non-inverting output)} = +1$$

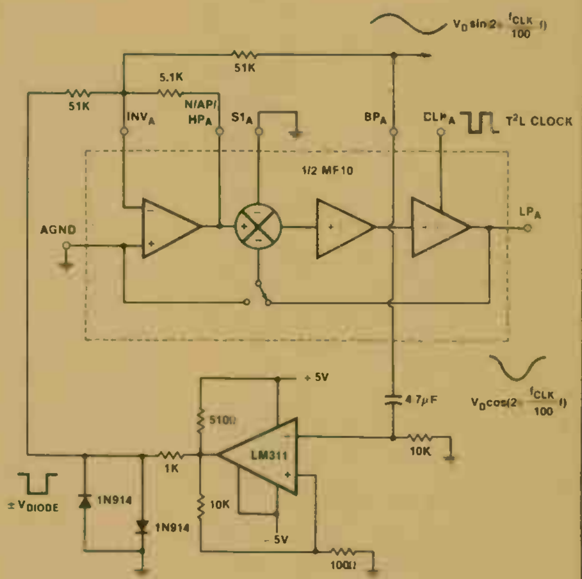


Mode 6B

TYPICAL APPLICATIONS (Cont'd)



Only 6 resistors required for this 4th order, 1 kHz Butterworth lowpass filter. This example also illustrates single-supply biasing.

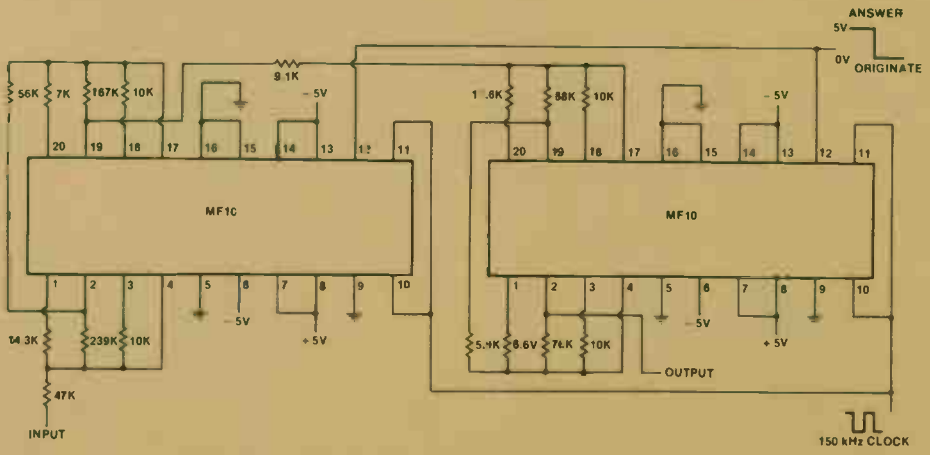


Generating Quadrature Sinewaves from a T²L Clock

300 Baud, Full-Duplex Modem Filter

Finally, as a graphic illustration of the simplicity of filter implementation using the MF10, this is a complete 300 baud, full-duplex modem filter. The filter is an 8th order, 1 dB ripple Chebyshev bandpass which functions as both an 1170 Hz originate filter and a 2125 Hz answer filter. Control of answer or originate operation is set by the logic level at the 50/100/CL input so that only one clock frequency is required. The overall filter gain is 22 dB.

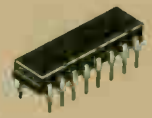
Construction of this filter on a printed circuit board would obviously be more compact than an RC active filter approach and much more cost effective for the level of precision required. An even more attractive implementation from a space savings point of view would be a hybrid circuit approach. A film resistor array connecting to two MF10 die could produce the entire filter in one package requiring only 7 external connections for input, output, supplies, etc.



Complete Full-Duplex 300 Baud Modem Filter

74LS367
276-1835

3-STATE HEX BUFFER



GENERAL DESCRIPTION

This device is a high speed hex buffer with 3-state outputs. It is organized as a single 6-bit or 2-bit/4-bit, with inverting or non-inverting data (D) paths. The outputs are designed to drive 15 TTL unit loads or 60 low power schottky loads when the enable (Ē) is LOW.

When the output enable input (Ē) is HIGH, the outputs are forced to a high impedance "off" state. If the outputs of the 3-state devices are tied together, all but one device must be in the high impedance state to avoid high currents that would exceed the maximum ratings. Designers should ensure that output enable signals to 3-state devices whose outputs are tied together are designed so there is no overlap.

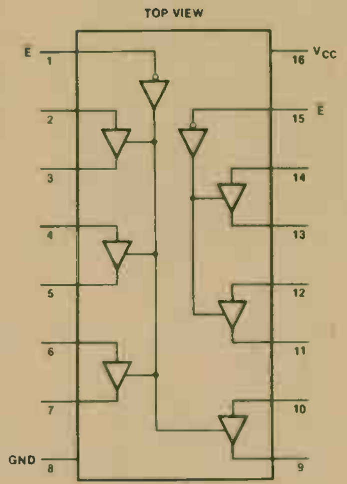
FEATURES

- Will drive 15 TTL unit loads
- Will drive 60 low power schottky loads

ABSOLUTE MAXIMUM RATING

Supply Voltage V_{CC}	5.25 V
Input High Voltage	2.0 V
Input Low Voltage	0.8 V
Input Clamp Diode Voltage	−1.5 V
Input High Current (V_{CC} = Max., V_{IN} = 2.7 V)	20 μA
Input Low Current (V_{CC} = Max., V_{IN} = 0.4 V)	−0.4 mA
Operating Temperature	0 to +70°C

PIN CONNECTION

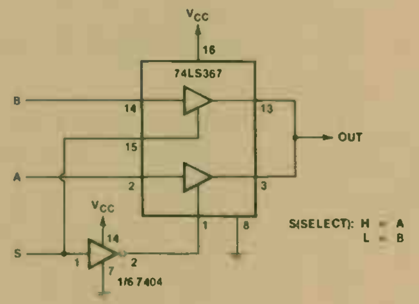


TRUTH TABLE

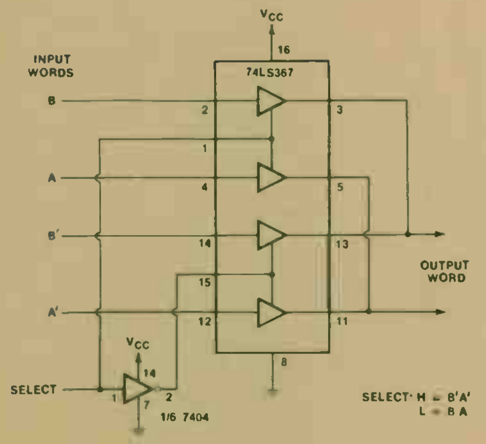
INPUTS		OUTPUT
Ē	D	
L	L	L
L	H	H
H	X	(Z)

H = High Level
L = Low Level
X = Immaterial
Z = High Impedance

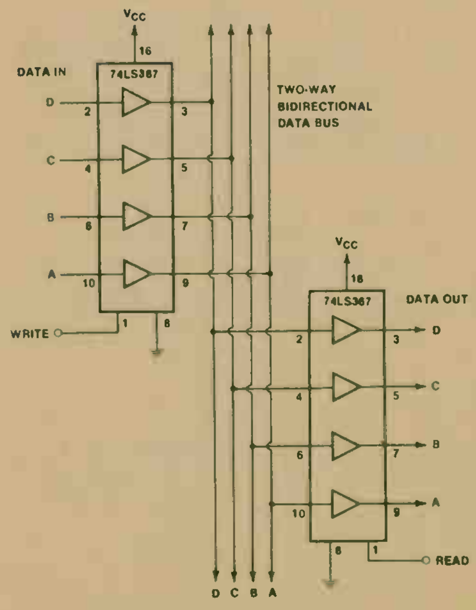
TYPICAL APPLICATIONS



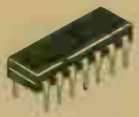
1-of-2 Data Selector



1-of-2 Data Selector



Bidirectional Data Bus



QUAD TWO-INPUT NAND GATE

7400
276-1801

GENERAL DESCRIPTION

This device employs TTL logic to achieve high speed at moderate power dissipation. It provides the basic functions used in the implementation of digital integrated circuit systems.

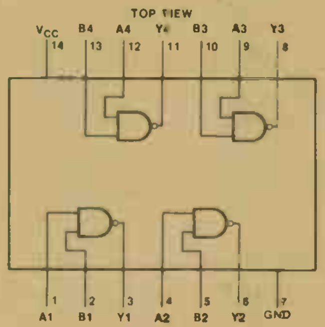
For best noise immunity and switching speed, unused inputs should not be left floating, but should be held between 2.4 V and the absolute maximum input voltage.

Two possible ways at handling unused inputs are:

(1) Connect unused inputs to V_{CC}. For all multi-emitter conventional TTL inputs, A 1 to 10K ohm current limiting series resistor is recommended, to protect against V_{CC} transients that exceed 5.5 V.

(2) Connect the unused input to the output of an unused gate that is forced high.

PIN CONNECTION



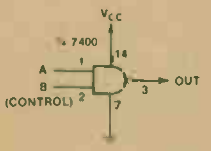
ABSOLUTE MAXIMUM RATINGS

Supply Voltage V_{CC}	5.25 V
Input High Voltage	2.0 V
Input Low Voltage	0.8 V
Input Clamp Diode Voltage (V_{CC} = 5.0 V, I_{IN} = −12 mA)	−1.5 V
Input High CUrrent (V_{CC} = Max., V_{IN} = 2.4 V)	40 μA
Input Low Current (V_{CC} = Max., V_{IN} = 0.4 V)	−1.6 mA
Operating Temperature	0 to +70°C

TRUTH TABLE

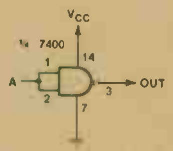
$Y = \overline{AB}$

TYPICAL APPLICATIONS



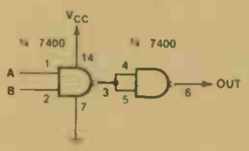
A	B	OUT
L	L	H
L	H	H
H	L	H
H	H	L

Control Gate



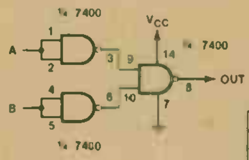
A	OUT
L	H
H	L

Inverter



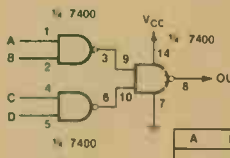
A	B	OUT
L	L	L
L	H	L
H	L	L
H	H	H

AND Gate



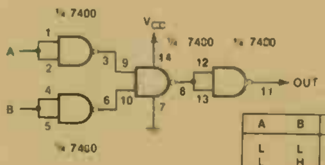
A	B	OUT
L	L	L
L	H	H
H	L	H
H	H	H

OR Gate



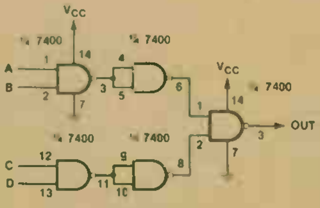
A	B	C	D	OUT
X	X	H	H	H
H	H	X	X	H
H	H	H	H	H

AND-OR Gate



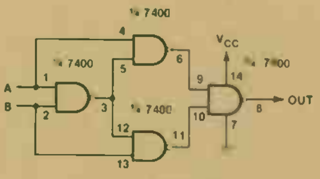
A	B	OUT
L	L	H
L	H	L
H	L	L
H	H	L

NOR Gate



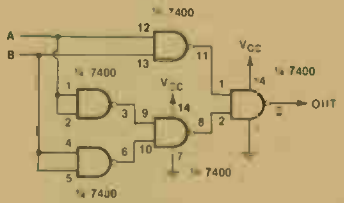
A	B	C	D	OUT
L	X	X	X	H
X	L	X	X	H
X	X	L	X	H
X	X	X	L	H
H	H	H	H	L

4-Input NAND Gate



A	B	OUT
L	L	L
L	H	H
H	L	H
H	H	L

Exclusive-OR Gate

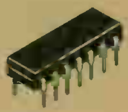


A	B	OUT
L	L	H
L	H	L
H	L	L
H	H	H

Exclusive-NOR Gate

7404
276-1802

HEX INVERTER



GENERAL DESCRIPTION

This device employs TTL logic to achieve high speed at moderate power dissipation. This hex inverter provides the basic functions used in the implementation of digital integrated circuit systems.

For best noise immunity and switching speed, unused inputs should not be left floating, but should be held between 2.4 V and the absolute maximum input voltage.

Two possible ways of handling unused inputs are:

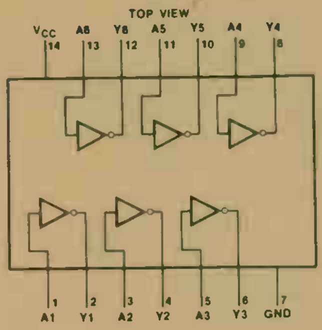
(1) Connect unused inputs to V_{CC}. For all multi-emitter conventional TTL inputs, A 1 to 10K ohm current limiting series resistor is recommended, to protect against V_{CC} transients that exceed 5.5 V.

(2) Connect the unused input to the output of an unused gate that is forced high.

ABSOLUTE MAXIMUM RATINGS

Supply Voltage V_{CC}	5.25 V
Input High Voltage	2.0 V
Input Low Voltage	0.8 V
Input Clamp Diode Voltage (V_{CC} = 5.0 V, I_{IN} = −12 mA)	−1.5 V
Input High Current (V_{CC} = Max., V_{IN} = 2.4 V)	40 μA
Input Low Current (V_{CC} = Max., V_{IN} = 0.4 V)	−1.6 mA
Operating Temperature	0 to +70°C

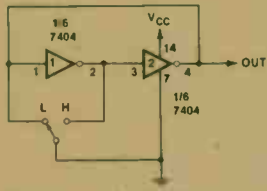
PIN CONNECTION



TRUTH TABLE

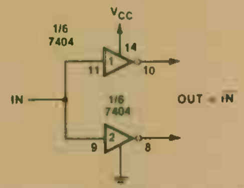
$Y = \overline{A}$

TYPICAL APPLICATIONS



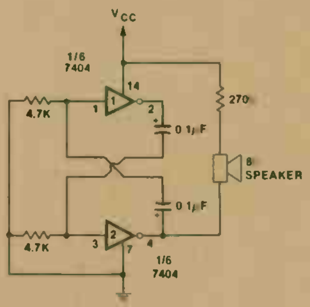
Output follows switch position

Bouncefree Switch



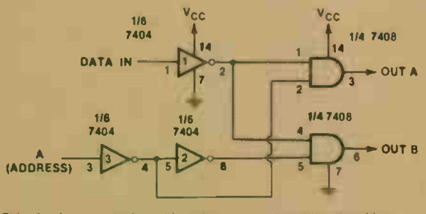
Allows one signal to control two or more inputs.

Universal Expander



Output tone is 4kHz.

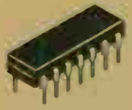
Audio Oscillator



This circuit steers the input bit to the output selected by the address.

DATA	ADDRESS	OUT A	OUT B
L	L	L	H
H	L	H	H
L	H	H	L
H	H	H	H

1-of-2 Demultiplexer



QUAD TWO-INPUT AND GATE

7408
276-1822

GENERAL DESCRIPTION

This device employs TTL logic to achieve high speed at moderate power dissipation. These gates provide the basic functions used in the implementation of digital integrated circuit systems.

For best noise immunity and switching speed, unused inputs should not be left floating, but should be held between 2.4 V and the absolute maximum input voltage.

Two possible ways at handling unused inputs are:

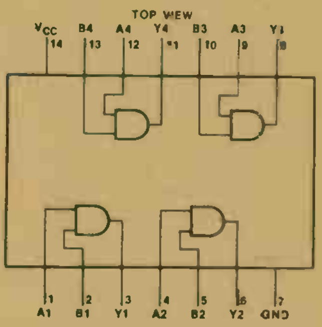
(1) Connect unused inputs to V_{CC}. For all multi-emitter conventional TTL inputs, a 1 to 10K ohm current limiting series resistor is recommended, to protect against V_{CC} transients that exceed 5.5 V.

(2) Connect the unused input to the output of an unused gate that is forced high.

ABSOLUTE MAXIMUM RATINGS

Supply Voltage V_{CC}	5.25 V
Input High Voltage	2.0 V
Input Low Voltage	0.8 V
Input Clamp Diode Voltage (V_{CC} = 5.0 V, I_{IN} = − 12 mA)	− 1.5 V
Input High Current (V_{CC} = Max., V_{IN} = 2.4 V)	40 μA
Input Low Current (V_{CC} = Max., V_{IN} = 0.4 V)	− 1.6 mA
Operating Temperature	0 to + 70°C

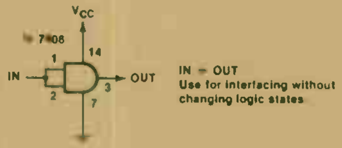
PIN CONNECTION



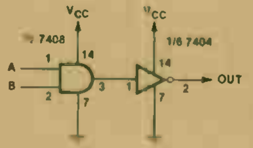
TRUTH TABLE

Y=AB

TYPICAL APPLICATIONS

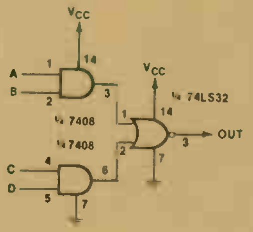


AND Gate Buffer



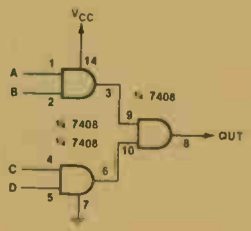
A	B	OUT
L	L	H
L	H	H
H	L	H
H	H	L

NAND Gate



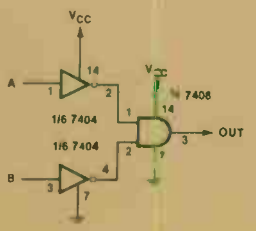
A	B	C	D	OUT
X	X	X	X	H
L	L	X	X	L
L	L	L	L	L

AND-OR-Invert Gate



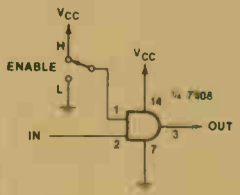
A	B	C	D	OUT
H	H	H	H	H
X	X	X	X	L

4-Input AND Gate



A	B	OUT
L	L	H
L	H	L
H	L	L
H	H	L

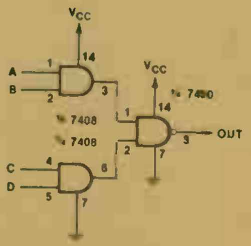
NOR Gate



IN	E	OUT
L	L	L
L	H	L
H	L	L
H	H	H

E = ENABLE

Digital Transmission Gate

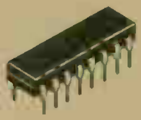


A	B	C	D	OUT
H	H	H	H	L
X	X	X	X	H

4-Input NAND Gate

7447
276-1805

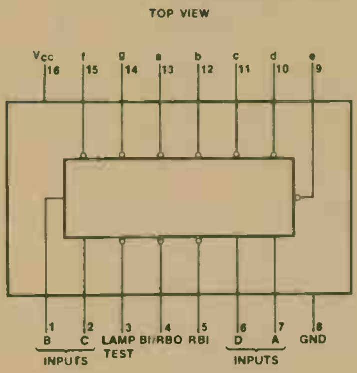
BCD TO SEVEN-SEGMENT DECODER/DRIVER



GENERAL DESCRIPTION

This versatile binary-coded-decimal 7-segment display driver fulfills a wide variety of requirements for most active high (common cathode) and active low (common anode) light emitting diodes (LED) or lamp displays. It fully decodes a 4-bit BCD input into a number from 0 through 9 in the standard 7-segment display format, and BCD numbers above 9 into unique patterns that verify operation. All circuits operate off of a single 5.0V supply. The output will withstand 15 Volts at a maximum leakage current of 250μA.

PIN CONNECTION



FEATURES

- Lamp-test input
- Leading railing zero suppression (RBI and RBO)
- Blanking input that may be used to modulate lamp intensity or inhibit output
- TTL and DTL compatible
- Input clamping diodes
- Open collector outputs drive indicators directly

ABSOLUTE MAXIMUM RATINGS

Supply Voltage V_{CC}	4.75 – 5.25 V
Continuous Voltage at Outputs a-g	Max. 5.5 V
Logic 1 Input Voltage	Min. 2 V
Logic 0 Input Voltage	Max. 0.8 V
Logic 0 Output Voltage	Max. 0.4 V
Logic 1 Output Voltage at a-g	Min. 2.4 V
Logic 1 Output Voltage at BI/RBO	Min. 2.4 V
Power	320 mW

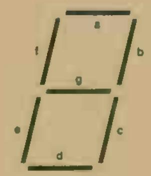
TRUTH TABLE

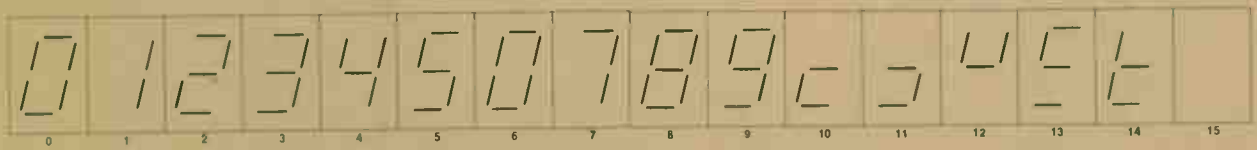
DECIMAL OR FUNCTION	INPUTS						BI/RBO†	OUTPUTS							NOTE
	LT	RBI	D	C	B	A		a	b	c	d	e	f	g	
0	H	H	L	L	L	L	H	H	H	H	H	H	H	L	
1	H	X	L	L	L	H	H	L	H	H	L	L	L	L	
2	H	X	L	L	H	L	H	H	H	L	H	H	L	H	
3	H	X	L	L	H	H	H	H	H	H	H	L	L	H	
4	H	X	L	H	L	L	H	L	H	H	L	L	H	H	
5	H	X	L	H	L	H	H	H	L	H	H	L	H	H	
6	H	X	L	H	H	L	H	L	L	H	H	H	H	H	
7	H	X	L	H	H	H	H	H	H	H	L	L	L	L	
8	H	X	H	L	L	L	H	H	H	H	H	H	H	H	1
9	H	X	H	L	L	H	H	H	H	H	L	L	H	H	
10	H	X	H	L	H	L	H	L	L	L	H	H	L	H	
11	H	X	H	L	H	H	H	L	L	H	H	L	L	H	
12	H	X	H	H	L	L	H	L	H	L	L	L	H	H	
13	H	X	H	H	L	H	H	H	L	L	H	L	H	H	
14	H	X	H	H	H	L	H	L	L	L	H	H	H	H	
15	H	X	H	H	H	H	H	L	L	L	L	L	L	L	
BI	X	X	X	X	X	X	L	L	L	L	L	L	L	L	2
RBI	H	L	L	L	L	L	L	L	L	L	L	L	L	L	3
LT	L	X	X	X	X	X	H	H	H	H	H	H	H	H	4

H = High Level, L = Low Level, X = Irrelevant

Notes:
1. The blanking input (BI) must be open or held at a high logic level when output functions 0 thru 15 are desired. The ripple-blanking input (RB) must be open or high, if blanking of a decimal zero is not desired
2. When a low logic level is applied directly to the blanking input (BI), all segment outputs are low regardless of the level of any other input.
3. When ripple-blanking input (RBI) and inputs A, B, C, and D are at a low level with the lamp-test input high, all segment outputs go low and the ripple-blanking output (RBO) goes to a low level (response condition).
4. When the blanking input/ripple-blanking output (BI/RBO) is open or held high and a low is applied to the lamp test input, all segment outputs are high.

† BI/RBO is wire-AND logic, serving as blanking input (BI) and/or ripple-blanking output (RBO).

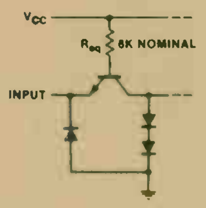




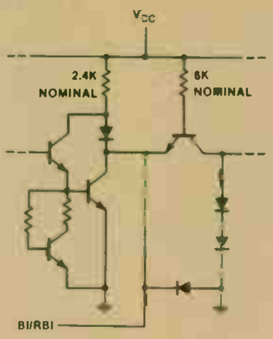
Numerical Designations and Resultant Displays

7447 276-1805

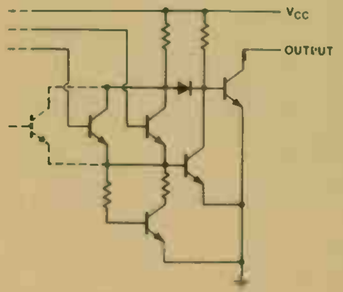
INPUT/OUTPUT EQUIVALENTS



Each Input Except BI/RBO

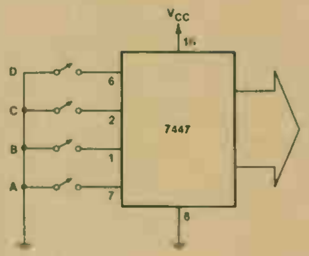


BI/RBO Input

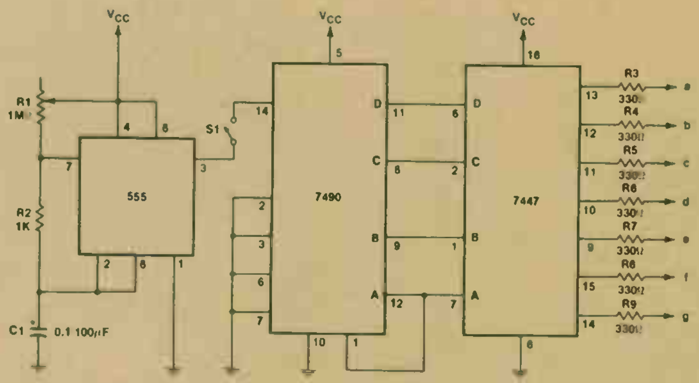


Typical of Outputs a Thru g

TYPICAL APPLICATIONS



Manually Switched Display

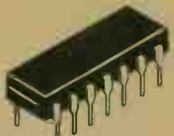


Close S1 to start timing cycle.
Calibrate 555 for 1 pulse (count) per second or 1 count per minute by adjusting R1

0-9 Second/Minute Timer

7490
276-1808

DIVIDE BY 2 OR 5, BCD COUNTER



GENERAL DESCRIPTION

This monolithic BCD counter contains four master-slave flip-flops and additional gating to provide a divide-by-two counter and a three-stage binary counter for which the count cycle length is divide-by-five.

This counter has a gated zero reset and gated set-to-nine inputs for use in BCD nine's complement applications.

To use maximum count length. the B input is connected to the Q_A output. The input count pulses are applied to input A and the outputs are as described in the appropriate truth table. A symmetrical divide-by-ten count can be obtained from the 90 counter by connecting the Q_D output to the A input and applying the input count to the B input which gives a divide-by-ten square wave at output Q_A.

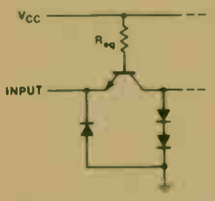
FEATURES

- Low power consumption
- High count rates . . . typically 50MHz
- Choice of counting modes
- Fully TTL and CMOS compatible

ABSOLUTE MAXIMUM RATINGS

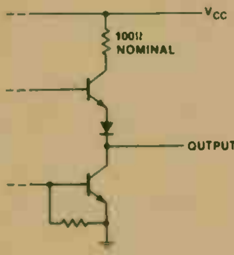
Typical Power Dissipation	145 mW
Count Frequency	42 MHz
High Level Input Voltage (Min)	2 V
Low Level Input Voltage (Max)	0.8 V
High Level Input Current	800 μA
Low Level Output Current (Max)	16 mA
V_{CC} to Ground	– 0.5 to + 7.0 V
Voltage Applied to Outputs (Output High)	– 0.5 to + 5.5 V

INPUT/OUTPUT EQUIVALENTS



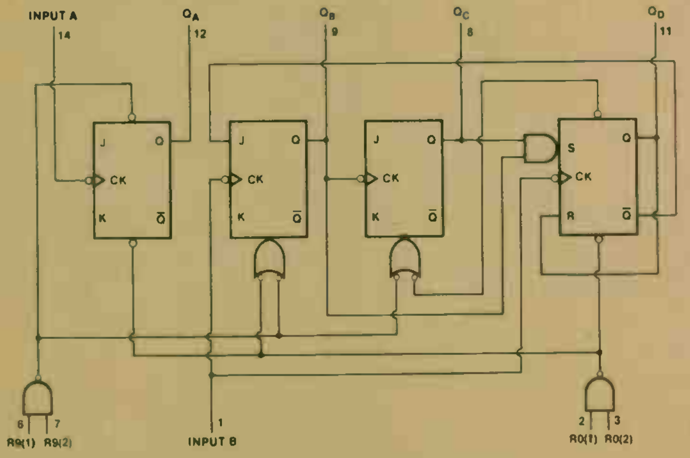
INPUT	R_{eq} NOMINAL
A	2.5K
B	1.25K
ALL RESETS	6K

Each Input

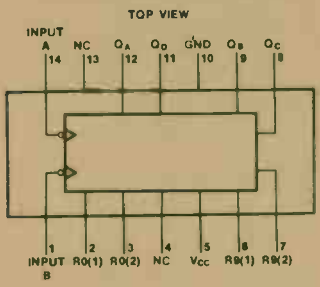


Typical of all Outputs

BLOCK DIAGRAM



PIN CONNECTION



TRUTH TABLES

RESET/COUNT

RESET INPUTS				OUTPUTS			
RO(1)	RO(2)	R9(1)	R9(2)	Q_D	Q_C	Q_B	Q_A
H	H	L	X	L	L	L	L
H	H	X	L	L	L	L	L
X	X	H	H	H	L	L	H
X	L	X	L	COUNT			
L	X	L	X	COUNT			
L	X	X	L	COUNT			
X	L	L	X	COUNT			

BCD COUNT SEQUENCE (See Note A)

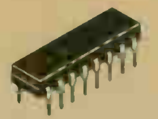
COUNT	OUTPUTS			
	Q_D	Q_C	Q_B	Q_A
0	L	L	L	L
1	L	L	L	H
2	L	L	H	L
3	L	L	H	H
4	L	H	L	L
5	L	H	L	H
6	L	H	H	L
7	L	H	H	H
8	H	L	L	L
9	H	L	L	H

BI-QUINARY (5-2) (See Note B)

COUNT	OUTPUTS			
	Q_A	Q_D	Q_C	Q_B
0	L	L	L	L
1	L	L	L	H
2	L	L	H	L
3	L	L	H	H
4	L	H	L	L
5	H	L	L	L
6	H	L	L	H
7	H	L	H	L
8	H	L	H	H
9	H	H	L	L

L = Low Level
H = High Level

Notes:
(A) Output Q_A is connected to input B for BCD count.
(B) Output Q_D is connected to input A for bi-quinary count.



TONE ENCODER

TCM5089
276-1301

GENERAL DESCRIPTION

The TCM5089 is specifically designed for the dual-tone telephone dialing system.

In addition to fixed supply voltage operation, the tone encoder provides negative-true keyboard input, tone inhibit input, stable output tone level any key depressed feature as well as a single tone inhibit pin.

An inexpensive TV crystal is used to generate eight different audio sinusoidal frequencies.

The tones suitable for dual-tone multi-frequency (DTMF) telephone dialing are digitally synthesized on the chip. The conventional R-2R ladder network is used to provide on-chip digital to analog conversion. The current-to-voltage transformation for D-to-A converter is accomplished by the same operational amplifier which sums up the "low-group" and "high-group" signals.

The waveforms generated in the manner described above have very low total harmonic distortion. Moreover, the frequency stability of this tone encoder complies with standard DTMF specifications without need for any frequency adjustments.

Two voice frequency signals are linearly added to create the dual-tone signal. One frequency is selected from a "low-group" and the other from a "high-group" of frequencies. The "low-group" consists of four frequencies 697, 770, 852, and 941 Hertz. The "high-group" consists of four frequencies 1209, 1336, 1477, and 1633 Hertz.

The number entry is accomplished by a keyboard arranged in a row, column format. In order to select one appropriate row and one appropriate column, a push button corresponding to a digit is pushed. One of the "high-group" frequencies is selected by the active column input and one of the "low-group" frequencies is selected by the active row input. The highest "high-group" frequency of 1633 hertz is not used in standard dual-tone implementation.

The total harmonic and intermodulation distortions of the dual-tone should be less than 10% at the telephone terminals. The frequency tolerance is ±1.0%. TCM5089 tone encoder provides accuracy of less than 0.75%. The "high-group" to "low-group" signal amplitude ratio should be 2.0 ± 1 dB. The above mentioned specifications hold over the safe operating temperature range for either short loop or long loop telephone application.

The TCM5089 is compatible with keyboard as well as electronic inputs. A keyboard diagram is shown in figures 1, and 2. The electronic inputs are shown in figure 3. The standard CMOS operated off the same supply as TCM5089 or open collector TTL can be used for electronic control. The keyboard inputs are standard CMOS with pull-up resistors to the supply voltage V_{DD}. CMOS circuits are capable of realizing resistance up to 1KΩ as a valid key closure; therefore, the precious metals used in keyboard switch contacts can be saved.

In order to generate a particular column tone, the column is connected to V_{SS} and the single tone inhibit is tied to V_{DD}. No tones will result if more than one column is connected to V_{SS}. When one or more rows are connected to V_{SS}, no tones are generated. In order to generate a particular row tone, the row is connected to V_{SS} along with any two column pins. The generation of dual-tones requires connection of a single row and a single column to V_{SS}.

Pin 15 is used to inhibit the generation of single tones. This pin is capable of pulling down to V_{SS} supply voltage. The dual or the single tones are generated as described under keyboard Interface when this pin is connected to V_{DD} supply voltage. When this pin is pulled down to V_{SS} or left floating, all chip functions remain unchanged except for the single tone operation which results in no tone at this voltage level.

The following formula is used to calculate the total harmonic distortion of a single row or a single column.

$$\mathrm{THD} = \frac{\left(\sqrt{V^2_{2f} + V^2_{3f} + V^2_{4f} + V^2_{5f} + \ldots + V^2_{nf}}\right) \times 100\%}{V_F}$$

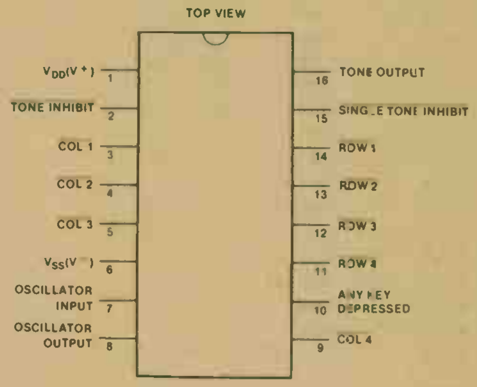
Where V_{2f} is the second harmonic of the fundamental frequency waveform and so on.

The dual-tone total harmonic distortion is given by the following formula:

$$\mathrm{THD} = \frac{\left(\sqrt{V^2_{2R} + V^2_{3R} + \ldots + V^2_{nR} + V^2_{2C} + \ldots V^2_{nC} + V^2_{IMD}}\right) \times 100\%}{\sqrt{V^2_{FR} + V^2_{FC}}}$$

Where V_{FR} and V_{FC} are the row and column fundamental frequency waveforms, V_{2R} and V_{2C} etc. are the corresponding harmonics.

PIN CONNECTION



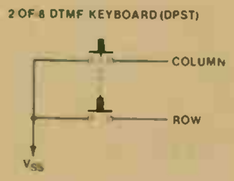
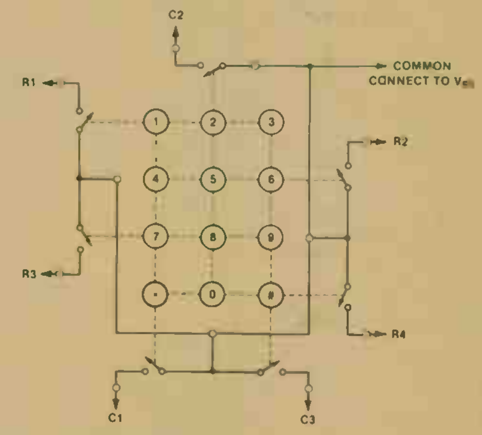


Figure 1—Keyboard Diagram



---- MECHANICAL LINKAGE
R_{ON} CONTACT RESISTANCE) 1K

Figure 2—Pushbutton Telephone Keyboard

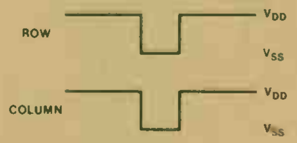


Figure 3—Electronic Inputs

TCM5089 276-1301

GENERAL DESCRIPTION (Cont'd)

V^2_{IMD} denotes the total intermodulation distortion.

$V^2_{IMD} = (V_{R+C})^2 + (V_{R-C})^2 + \ldots + (V_{nR+mC})^2 + (V_{nR-mC})^2$

A relatively simple method of distortion measurement uses a spectrum analyzer to relate the harmonics to the fundamental frequency waveform.

The tone encoder spectrum indicates the harmonics and intermodulation distortion at least 30dB down relative to the column tone. Another method for distortion measurement of the dual-tone waveform is to compare the total power in the fundamental frequencies with the total power in the various harmonics plus intermodulation on a signal analyzer. The TCM5089 provides an output distortion of −20dB maximum.

Moreover, when the device is operated between 3 volts and 3.5 volts, some clipping occurs at the output waveform causing the distortion in this voltage range to exceed −20dB maximum.

Pin 10 is used for electronic control of the transmitter and/or the receiver switching as well as other functions. This pin acts like an open-circuit. However, when a keyboard button is pushed, the pin switches to V_{SS}.

The status of the tone inhibit and the single tone inhibit does not affect the output at pin 10.

The level of the TCM5089's output tone is proportional to the fixed DC supply voltage. In order to increase the temperature stability of the device, operation is usually performed with a regulated supply. The reason being that the temperature stability of the supply voltage can be controlled. The tone output i.e., pin 16 is tied internally to the emitter of an NPN transistor. The collector of this transistor is connected to the V_{DD} supply voltage. The base of this transistor is connected to the output of the on-chip Op Amp used to add the column and row tones and facilitate output level regulations.

The purpose of pin 2 is to prevent tone generation when the keyboard is not used for DTMF application. This pin has a pull-up to V_{DD} voltage supply. It inhibits tone generation when connected to V_{SS}. However, other chip functions remain unchanged.

FEATURES

- Fixed-supply voltage operation
- Minimal standby power requirement
- Use of inexpensive television colorburst crystal (3.579545MHz to provide highly accurate and stable tones)
- Minimum external parts required
- Total harmonic distortion complies with industry standards
- Dual-tone and single-tone capability
- Single tone inhibit selects DTMF only
- Tone inhibit capability to allow keyboard to be used for non-DTMF functions
- Any key depressed control capability
- Device power delivered directly from the telephone lines or small batteries (e.g., 9 volts) due to CMOS low power circuitry
- Electronic input capability

ABSOLUTE MAXIMUM RATINGS

DC Supply Voltage, V_{DD}	+13.5 V
Pin Voltage Relative to V_{DD} (Except Pin 10)	+0.30 V
Pin Voltage Relative to V_{SS} (Except Pin 10)	−0.30 V
Maximum Package Power Capability	1150 mW
Operating Ambient Temperature	−30 to +70°C
Storage Ambient Temperature	−55 to +150°C

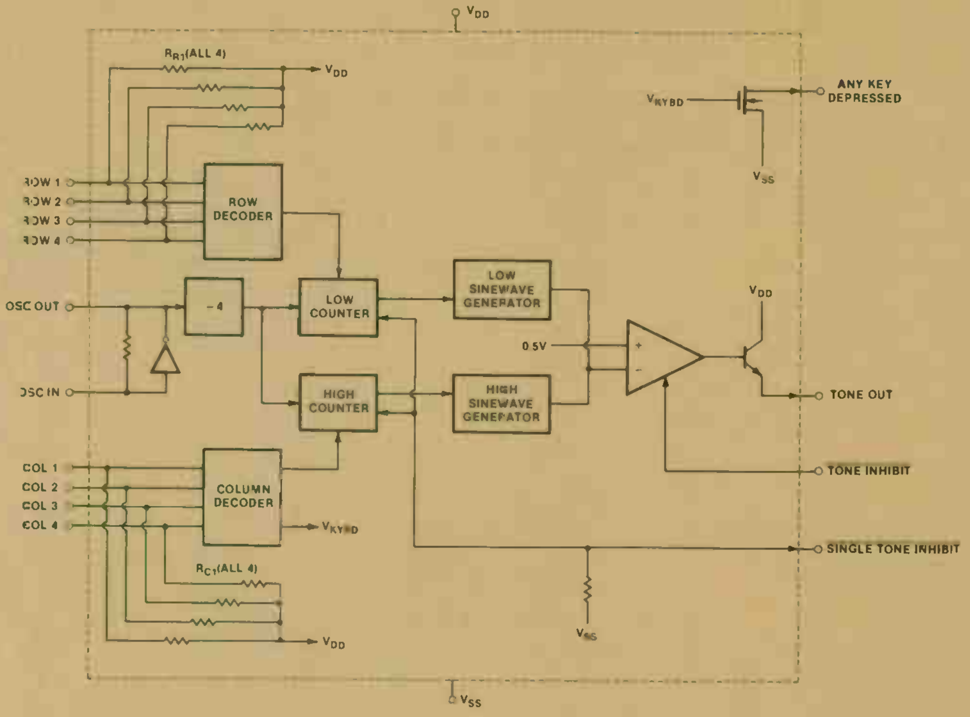
TABLE

Comparison of standard versus actual tones generated by TCM5089 using F = 3.579545 MHz ± .02% crystal oscillator.

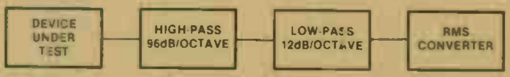
FREQUENCY	STANDARD DTMF	OUTPUT TONE	%ERROR
$f_1(R_1)$	697	701.3	+0.62
$f_2(R_2)$	770	771.4	+0.19
$f_3(R_3)$	852	857.2	+0.61
$f_4(R_4)$	941	935.1	−0.63
$f_5(C_1)$	1209	1215.9	+0.57
$f_6(C_2)$	1336	1331.7	−0.32
$f_7(C_3)$	1477	1471.9	−0.35
$f_8(C_4)$	1633	1645	+0.73

TCM5089 276-1301

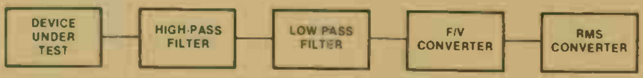
BLOCK DIAGRAM



TEST CIRCUITS

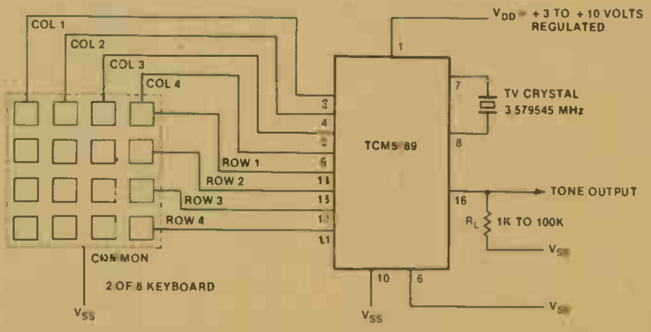


Distortion Measurement



Frequency Test

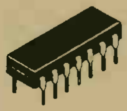
TYPICAL APPLICATION



Typical Hook-up Configuration

4001
276-2401

QUAD TWO-INPUT NOR GATE



GENERAL DESCRIPTION

The 4001 quad 2-Input NOR gate is constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. These complementary MOS logic gates find primary use where low power dissipation and/or high noise immunity is desired.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in}$ or $V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

FEATURES

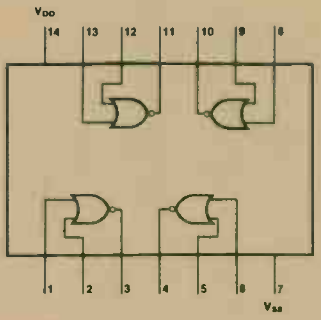
- Quiescent current = 0.5 nA typ/pkg @ 5 Vdc
- Noise immunity = 45% of V_{DD} typical
- Diode protection on all inputs
- Supply voltage range = 3.0 Vdc to 16 Vdc
- Single supply operation—positive or negative
- High fanout > 50
- Input impedance = 10^{12} ohms typical
- Logic swing independent of fanout

ABSOLUTE MAXIMUM RATINGS (Voltages referenced to V_{SS})

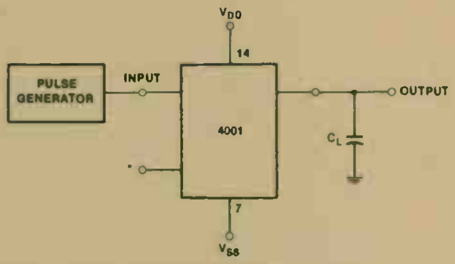
DC Supply Voltage	−0.5 to +16 Vdc
Input Voltage, All Inputs	−0.5 to V_{DD} +0.5 Vdc
DC Current Drain per Pin	10 mAdc
Operating Temperature Range	−40 to +85°C
Storage Temperature Range	−65 to +150°C

PIN CONNECTION

TOP VIEW

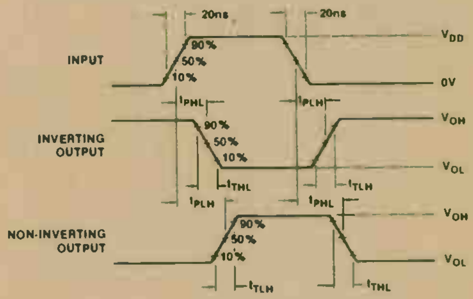


SWITCH TIME TEST CIRCUIT

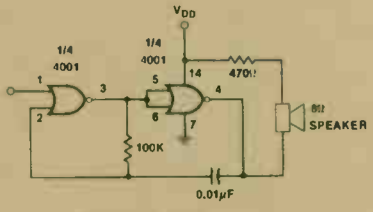


*All unused inputs of OR, NOR gates must be connected to V_{SS}.

SYNC TIMING WAVEFORMS

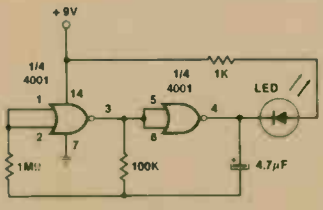


TYPICAL APPLICATIONS



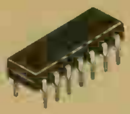
Tone frequency is about 1kHz

Gated Tone Source



LED flashes 1-2 times/second

LED Flasher



QUAD TWO-INPUT NAND GATE

4011
276-2411

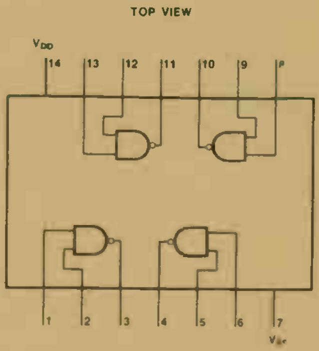
GENERAL DESCRIPTION

The 4011 is constructed with P and N channel enhancement mode devices in a single monolithic structure (Complementary MOS). Their primary use is where low power dissipation and/or high noise immunity is desired.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

PIN CONNECTION



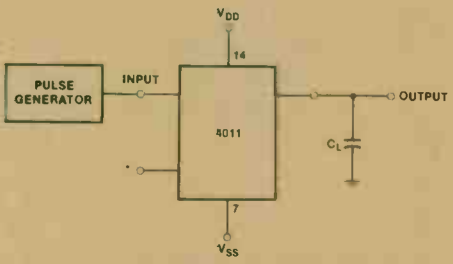
FEATURES

- Quiescent current = 0.5 nA typ/pkg @ 5 Vdc
- Noise immunity = 45% of V_{DD} typical
- Supply voltage range = 3.0 Vdc to 16 Vdc
- Double diode protection on all inputs

ABSOLUTE MAXIMUM RATINGS
(Voltages referenced to V_{SS})

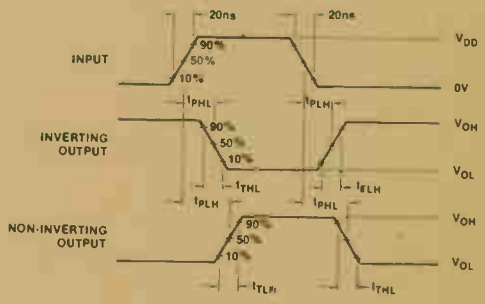
DC Supply	−0.5 to +16 Vdc
Input voltage, All Inputs	−0.5 to V_{DD} +0.5 Vdc
DC Current Drain per Pin	10 mAdc
Operating Temperature Range	−40 to +85°C
Storage Temperature Range	−65 to +150°C

SWITCH TIME TEST CIRCUIT



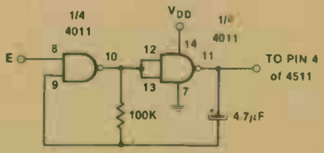
*All unused inputs of AND, NAND gates must be connected to V_{DD}.

SYNC TIMING WAVEFORMS



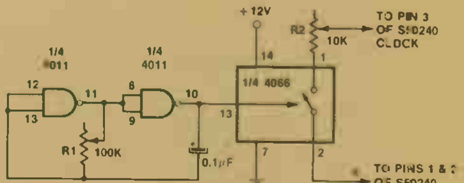
TYPICAL APPLICATIONS

E	DISPLAY
H	FLASHES
L	OFF



Display flashes once per second when E is high

Display Flasher

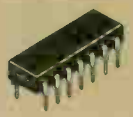


This produces bagpipe and other unusual sounds. Adjust R1 to vary interruption rate

Special Effects

4013
276-2413

DUAL TYPE D FLIP-FLOP



GENERAL DESCRIPTION

The 4013 dual type D flip-flop is constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. Each flip-flop has independent Data, (D), Direct Set, (S), Direct Reset, (R), and Clock (C) inputs and complementary outputs (Q and Q̄). These devices may be used as shift register elements or as type T flip-flops for counter and toggle applications.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in}$ or $V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

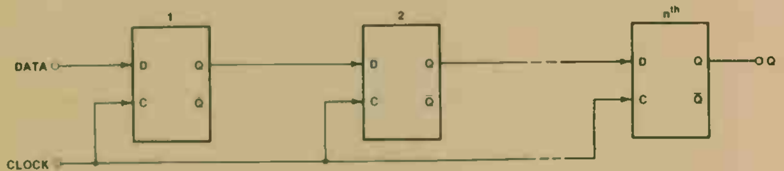
FEATURES

- Static operation
- Quiescent current = 2.0 nA/package typical @ 5 Vdc
- Noise immunity = 45% of V_{DD} typical
- Diode protection on all inputs
- Supply voltage range = 3.0 Vdc to 16 Vdc
- Single supply operation
- Toggle rate = 4 MHz typical @ 5 Vdc
- Logic edge-clocked flip-flop design—logic state is retained indefinitely with clock level either high or low; information is transferred to the output only on the positive-going edge of the clock pulse.
- Capable of driving two-low-power TTL loads, one low-power schottky TTL load or two HTL loads over the rated temperature range.

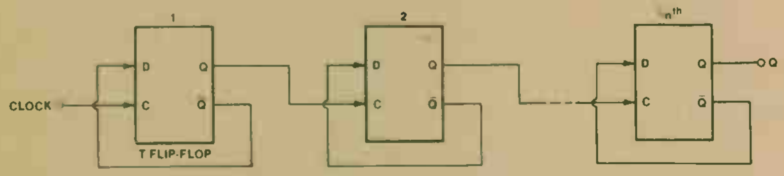
ABSOLUTE MAXIMUM RATINGS
(Voltages referenced to V_{SS})

DC Supply Voltage	−0.5 to +16 Vdc
Input Voltage, All Inputs	−0.5 to V_{DD} +0.5 Vdc
DC Current Drain per Pin	10 mAdc
Operating Temperature Range	−40 to +85°C
Storage Temperature Range	−65 to +150°C

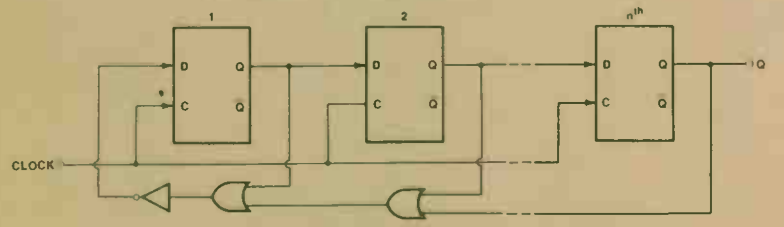
TYPICAL APPLICATIONS



n-Stage Shift Register



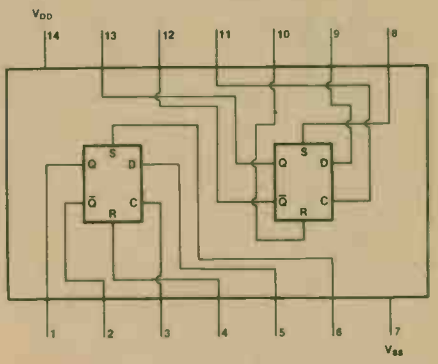
Binary Ripple Up-Counter (Divide-by-2^n)



Modified Ring Counter (Divide-by-(n+1))

PIN CONNECTION

TOP VIEW

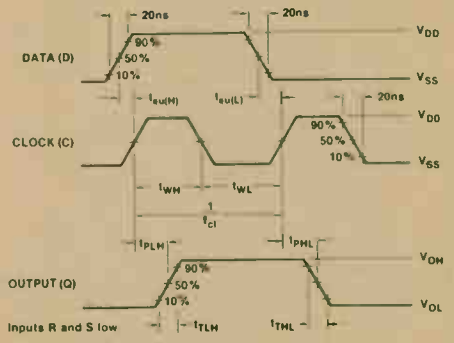


TRUTH TABLE

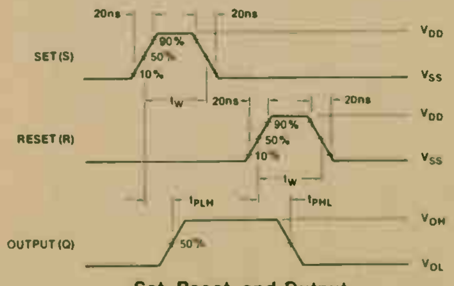
INPUTS				OUTPUTS	
Clock†	Data	Reset	Set	Q	Q̄
—	L	L	L	L	H
—	H	L	L	H	L
—	X	L	L	No Change	
X	X	H	L	L	H
X	X	L	H	H	L
X	X	H	H	H	H

X = Don't Care H = High Level
L = Low Level † = Level Change

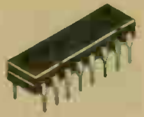
SYNC TIMING WAVEFORMS



Data, Clock, and Output



Set, Reset, and Output



DECADE COUNTER/DIVIDER

4017
276-2417

GENERAL DESCRIPTION

The 4017 is a five-stage Johnson decade counter with built-in code converter. High-speed operation and spike-free outputs are obtained by use of a Johnson decade counter design. The ten decoded outputs are normally low, and go high only at their appropriate decimal time period. The output changes occur on the positive-going edge of the clock pulse. This part can be used in frequency division applications as well as decade counter or decimal decode display applications.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in}$ or $V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}.

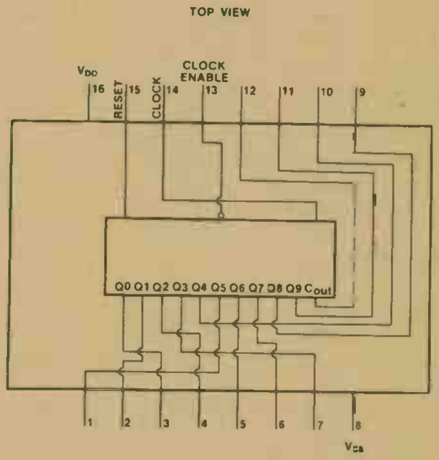
FEATURES

- Fully static operation
- DC clock input circuit allows slow rise times
- Carry out output for cascading
- 12 MHz (typical) operation @ V_{DD} = 10 Vdc
- Quiescent current = 5.0 nA/package typical @ 5 Vdc
- Supply voltage range = 3.0 Vdc to 16 Vdc
- Capable of driving two low-power TTL loads, one low-power schottky TTL load or two HTL loads over the rated temperature range

ABSOLUTE MAXIMUM RATINGS (Voltages referenced to V_{SS})

DC Supply Voltage	−0.5 to +16 Vdc
Input Voltage, All Inputs	−0.5 to V_{DD} + 0.5 Vdc
DC Current Drain per Pin	10 mAdc
Operating Temperature Range	−40 to +85 C
Storage Temperature Range	−65 to +150 C

PIN CONNECTION

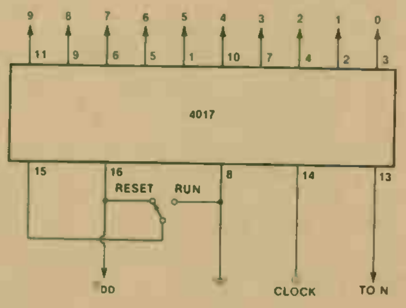


TRUTH TABLE (Positive Logic)

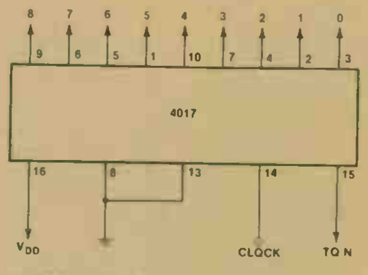
Clock	Clock Enable	Reset	Decode Output = n
L	X	L	n
X	H	L	n
X	X	H	Q0
↑	L	L	n + 1
↓	X	L	n
X	↑	L	n
1	↓	L	n + 1

X = Don't Care If n < 5 Carry = "H".
Otherwise = "L"
L = Low Level H = High Level

TYPICAL APPLICATIONS



Count to N and Halt

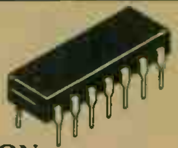


For N = 9, ground pin 15

Count to N and Recycle

4023
276-2423

TRIPLE 3-INPUT “NAND” GATE



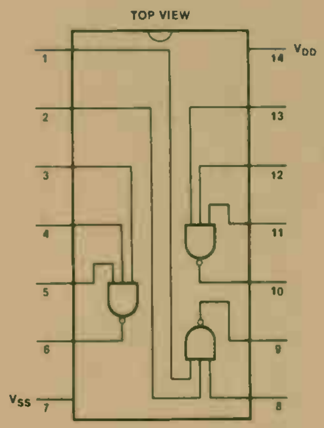
GENERAL DESCRIPTION

The 4023 is constructed with P- and N-channel enhancement mode devices in a single monolithic structure. Its primary use is where low power dissipation and/or high noise immunity is desired.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{IN} and V_{OUT} be constrained to the range $V_{SS} \leq (V_{IN} \text{ or } V_{OUT}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

PIN CONNECTION



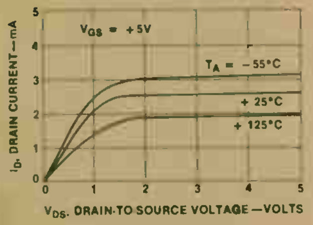
FEATURES

- Quiescent current — 0.5 nA typ/pkg @ 5 Vdc
- Noise immunity — 45% of V_{DD} typical
- Supply voltage range — 3 to 18 Vdc
- Double diode protection on all inputs

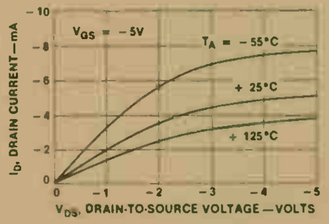
ABSOLUTE MAXIMUM RATINGS

DC Supply Voltage	– 0.5 to + 18 V
Input Voltage, All Inputs	– 0.5 to + 0.5 V
DC Current Drain per Pin	10 mA
Operating Temperature Range	– 40 to + 85°C
Storage Temperature Range	– 65 to + 150°C

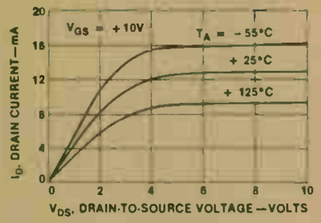
TYPICAL CHARACTERISTICS



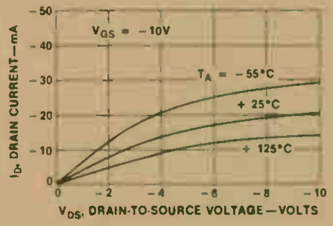
Drain Current vs
Drain-to-Source Voltage



Drain Current vs
Drain-to-Source Voltage

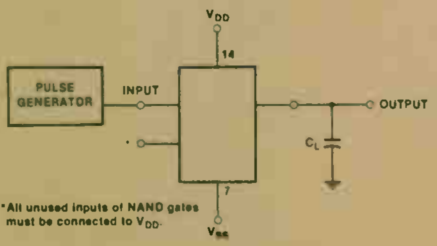


Drain Current vs
Drain-to-Source Voltage



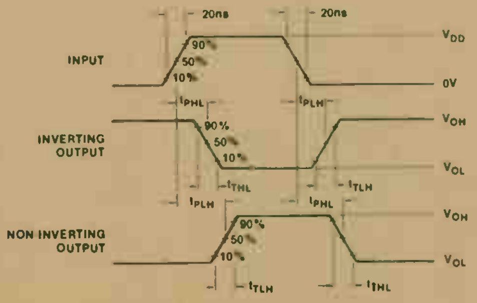
Drain Current vs
Drain-to-Source Voltage

SWITCH TIME TEST CIRCUIT

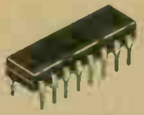


*All unused inputs of NAND gates must be connected to V_{DD}.

Test Circuit



Switching Time Waveforms



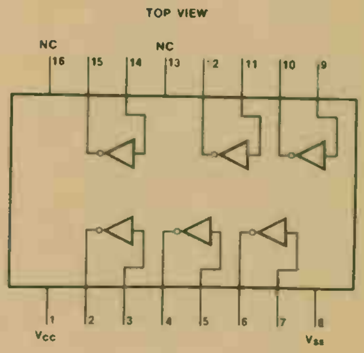
INVERTING HEX BUFFER

4049
276-2449

GENERAL DESCRIPTION

The 4049 hex inverter/buffer is constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. These complementary MOS devices find primary use where low power dissipation and/or high noise immunity is desired. These devices provide logic-level conversion using only one supply voltage, V_{CC}. The input-signal high level (V_{IH}) can exceed the V_{CC} supply voltage for logic-level conversions. Two TTL/DTL loads can be driven when the devices are used as CMOS-to-TTL/DTL converters ($V_{CC} = 5.0$ V, $V_{OL} \leq 0.4$ V, $I_{OL} \geq 3.2$ mA) Note that pin 16 is not connected internally on this device; consequently connections to this terminal will not affect circuit operation.

PIN CONNECTIONS



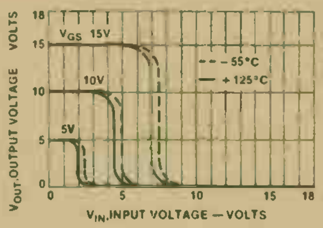
FEATURES

- High source and sink currents
- High-to-low level converter
- Quiescent current = 2.0 nA/package typical @ 5 Vdc
- Supply voltage range = 3.0 Vdc to 16 Vdc

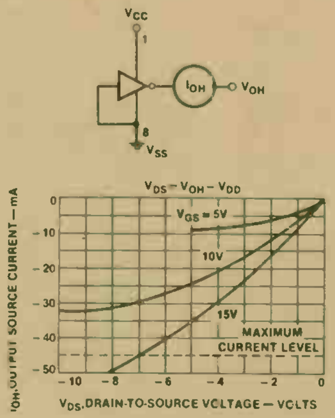
ABSOLUTE MAXIMUM RATINGS
(Voltages referenced to V_{SS}, Pin 8)

DC Supply Voltage	−0.5 to +16 Vdc
Input Voltage, All Inputs	−0.5 to V_{DD} +0.5 Vdc
DC Current Drain per Input Pin	10 mAdc
DC Current Drain per Output Pin	45 mAdc
Operating Temperature Range	−40 to +85°C
Storage Temperature Range	−65 to +150°C

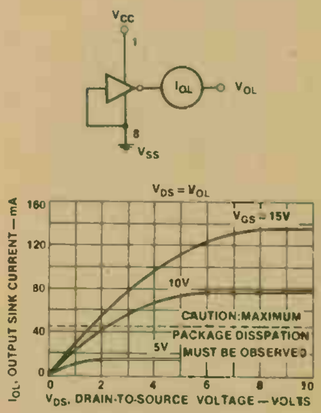
TYPICAL CHARACTERISTICS



Output Voltage
vs Input Voltage

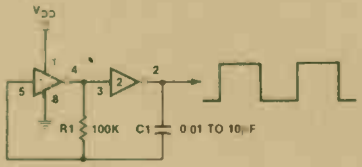


Output Source Current vs
Drain-To-Source Voltage



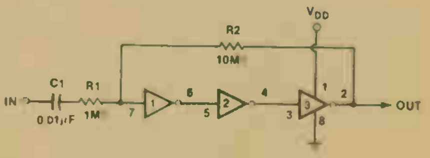
Output Sink Current vs
Drain-To-Source Voltage

TYPICAL APPLICATIONS



1,2 = 1/3 4049
Pulse Rate = 1/1.4R1C1

Clock Pulse Generator

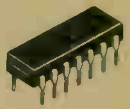


1,2,3 = 1/2 4049
Note that the inverters are used in a LINEAR mode
Gain = R2/R1

Linear 10X Amplifier

4066
276-2466

QUAD BILATERAL SWITCH



GENERAL DESCRIPTION

The 4066 consists of four independent switches capable of controlling either digital or analog signals. This Quad Bilateral Switch is useful in signal gating, chopper, modulator, demodulator, and CMOS logic implementation.

This device contains circuitry to protect the inputs against damage due to high static voltages or electrical fields; however, it is advised that normal precautions be taken to avoid applications of any voltage higher than maximum rated voltages to this high impedance circuit.

For proper operation it is recommended that V_{IN} and V_{OUT} be constrained to the range $V_{SS} \leq (V_{IN}$ or $V_{OUT}) \leq V_{DD}$.

Unused inputs must always be tied to the appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

FEATURES

- Wide supply voltage range—3V to 15V
- High noise immunity—0.45 V_{DD} typ
- Wide range of digital and analog switching—±7.5 V_{PEAK}
- "ON" resistance for 15V operation—80Ω typ
- Matched "ON" resistance over 15V signal input—ΔR_{ON} = 5Ω typ
- "ON" resistance flat over peak-to-peak signal range
- High "ON"/"OFF" output voltage ratio—65 dB typ
- High degree of linearity—<0.4% distortion typ
- Extremely low "OFF" switch leakage—0.1 nA typ
- Extremely high control input impedance—10^{12}Ω typ
- Low crosstalk between switches—−50 dB typ
- Frequency response, switch "ON"—40 MHz typ

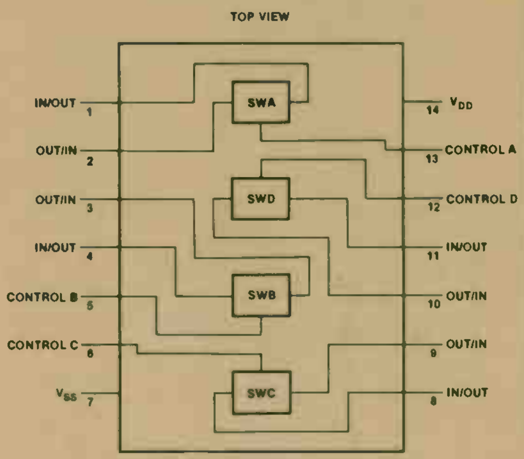
APPLICATIONS

- Analog signal switching/multiplexing
  Signal gating
  Squelch control
  Chopper
  Modulator/Demodulator
  Commutating switch
- Digital signal switching/multiplexing
- CMOS logic implementation
- Analog-to-digital/digital-to-analog conversion
- Digital control of frequency, impedance, phase, and analog-signal gain

ABSOLUTE MAXIMUM RATINGS

Supply Voltage	−0.5V to +18V
Input Voltage	−0.5 to V_{DD} +0.5V
Package Dissipation	500 mW
Operating Temperature Range	−40 to +85°C
Storage Temperature Range	−65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

PIN CONNECTION



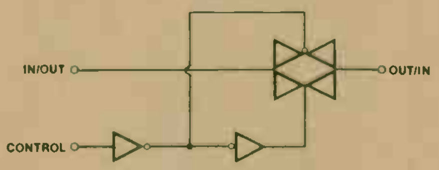
TRUTH TABLES

CONTROL	SWITCH
0	OFF
1	ON

$V_{CONTROL}$	V_{IN} TO V_{OUT} RESISTANCE
V_{SS}	$>10^9$ ohms typical
V_{DD}	3×10^2 ohms typical

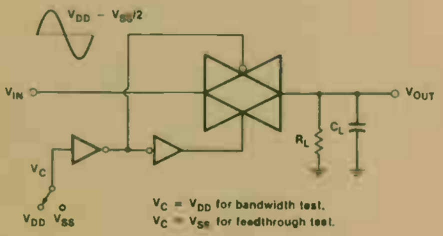
LOGIC DIAGRAM

1/4 OF 4066



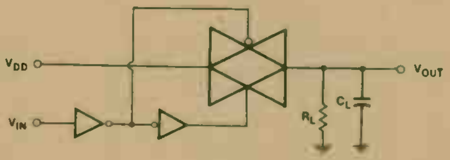
LOGIC DIAGRAM RESTRICTIONS
$V_{SS} < V_{IN} < V_{DD}$
$V_{SS} < V_{OUT} < V_{DD}$

TYPICAL APPLICATIONS

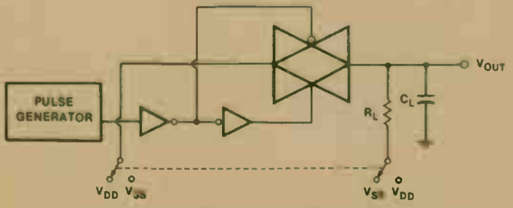


V_C = V_{DD} for bandwidth test.
V_C = V_{SS} for feedthrough test.

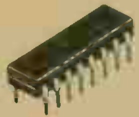
Bandwidth and Feedthrough Attenuation



Input Voltage



Propagation Delay Time, Control to Output



16K DYNAMIC RAM

4116
276-2505

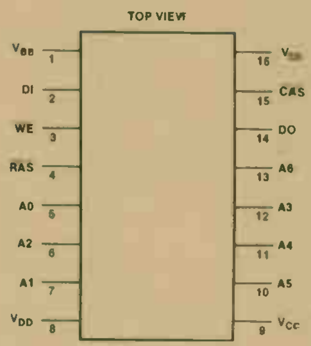
GENERAL DESCRIPTION

The 4116 is a 16,384 × 1 bit dynamic RAM. It features a multiplexed address input with separate row and column strobes. This added flexibility allows the 4116 to be used in page mode operation.

The 4116 must be refreshed every 2 ms. This can be accomplished by performing any cycle which brings the Row Address Strobe active including an RAS-only cycle at each of the 128 row addresses.

N-channel double-poly silicon gate technology is used in the manufacture of the 4116. This process combines high density and performance with reliability. Greater system densities are achievable by the use of a 16-pin dual-in-line package for the 4116.

PIN CONNECTION



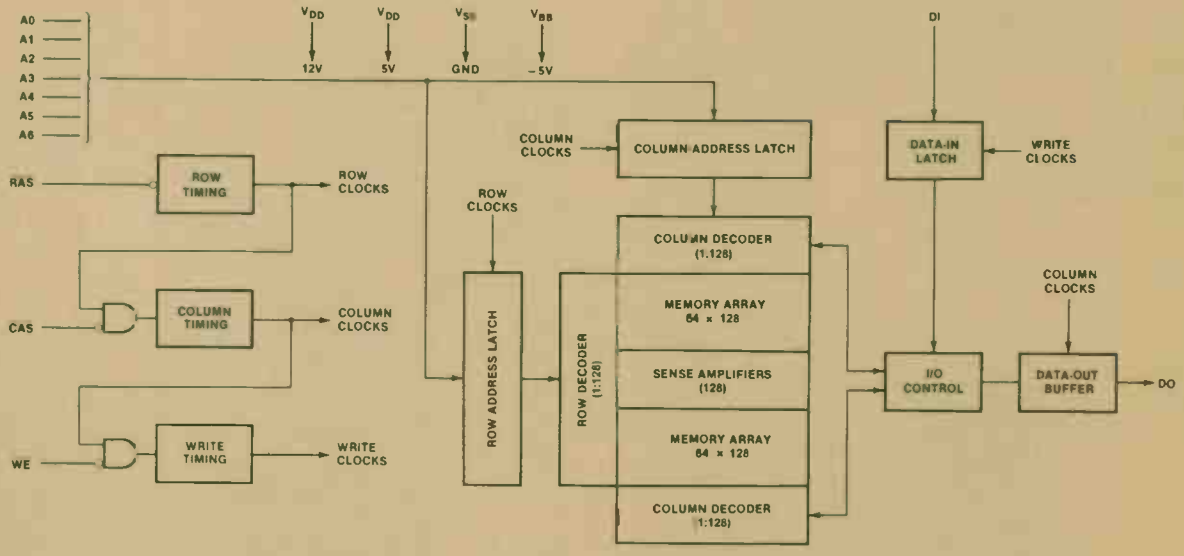
FEATURES

- Access times: 150 ns, 200 ns, 300 ns
- Low power: 462mW max
- TTL compatible: all inputs and output
- Gated CAS—noncritical timing
- Read, wire, read-modify-write and RAS-only refresh cycles
- Page mode operation

ABSOLUTE MAXIMUM RATINGS

Power Dissipation	1W
Supply Voltage V_{DD}	13.2V
Supply Voltage V_{CC}	5.5V
Voltage on Any Pin Relative to V_{BB} ($V_{SS} - V_{BB} > 4.5V$	−0.3 to +20V
Operating Temperature Range	0 to +70°C
Storage Temperature	−65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

INTERNAL CIRCUIT



Note: All voltages referenced to V_{SS}. When applying voltages to the devices V_{DD}, V_{CC}, or V_{SS} should never be 0.3V more negative than V_{BB}.

TL317
276-1762

POSITIVE VOLTAGE REGULATOR

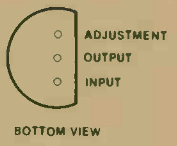
GENERAL DESCRIPTION

The TL317 is an adjustable 3-terminal positive voltage regulator capable of supplying 100 milliamperes over an output-voltage range of 1.2 volts to 32 volts. It is exceptionally easy to use and requires only two external resistors to set the output voltage. Both input and output regulation are better than standard fixed regulators.

In addition to higher performance than fixed regulators, this regulator offers full overload protection available only in integrated circuits. Included on the chip are current limit and thermal overload protection. All overload protection circuitry remains fully functional even if the adjustment terminal is disconnected. Normally, no capacitors are needed unless the device is situated far from the input filter capacitors in which case an input bypass is needed. An optional output capacitor can be added to improve transient response. The adjustment terminal can be bypassed to achieve very high ripple rejection, which is difficult to achieve with standard 3-terminal regulators.

Besides replacing fixed regulators, the regulator is useful in a wide variety of other applications. Since the regulator is floating and sees only the input-to-output differential voltage, supplies of several hundred volts can be regulated as long as the maximum input-to-output differential is not exceeded. Its primary application is that of a programmable output regulator, but by connecting a fixed resistor between the adjustment terminal and the output terminal, this device can be used as a precision current regulator. Supplies with electronic shutdown can be achieved by clamping the adjustment terminal to ground, which programs the output to 1.2 volts where most loads draw little current.

PIN CONNECTION



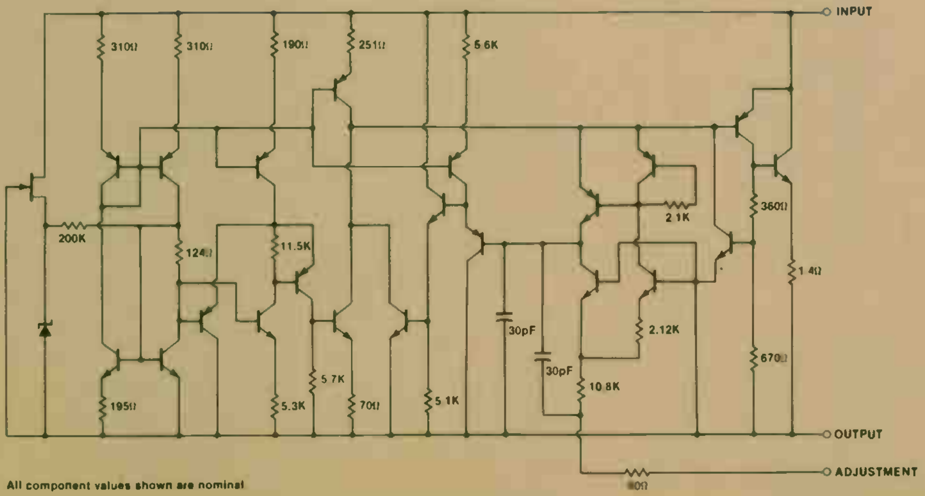
FEATURES

- Output voltage range adjustable from 1.2 V to 32 V
- Guaranteed I_O capability of 100 mA
- Input regulation typically 0.01% per input-volt change
- Output regulation typically 0.5%
- Ripple rejection typically 80 dB

ABSOLUTE MAXIMUM RATINGS

Input-to-Output Differential Voltage, V_I-V_O .... 35 V
Continuous Total Dissipation at (or below) 25°C
Free-Air Temperature .... 775 mW
Continuous Total Dissipation at (or below) 25°C Case Temperature . . 1600 mW
Operating Free-Air, Case, or Virtual Junction Temperature Range . . 0 to 150°C
Storage Temperature Range .... −65 to 150°C
Lead Temperature (1/16 inch from Case for 10 Sec.) .... 260°C

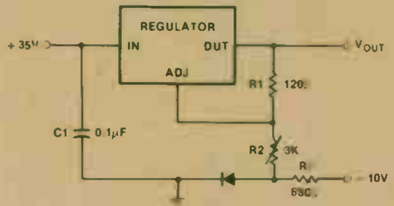
SCHEMATIC



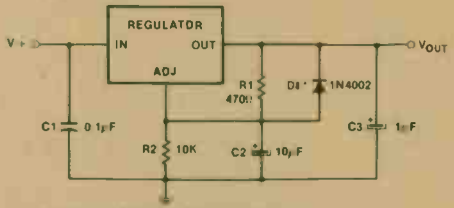
All component values shown are nominal

TL317 276-1762

TYPICAL APPLICATIONS

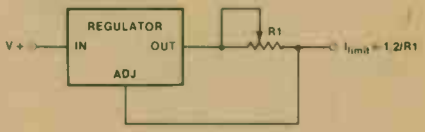


0 to 30 V
Regulator Circuit

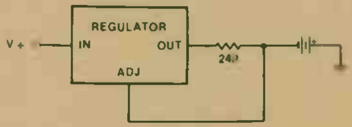


*D1 discharges C2 if output is shunted to ground

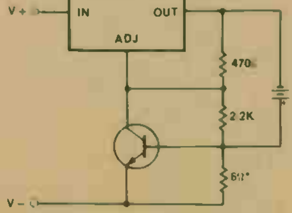
Adjustable Regulator Circuit with
Improved Ripple Rejection



Precision Current
Limiter Circuit

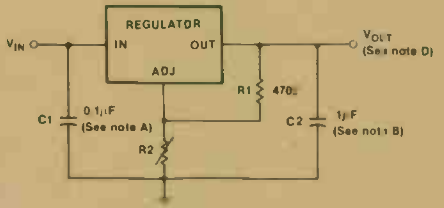


50 mA Constant-Current
Battery Charger Circuit



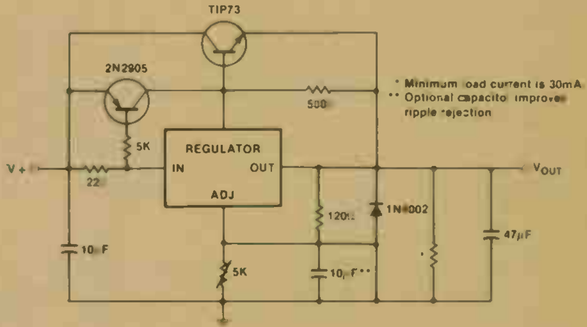
*This resistor set peak current (100mA for 6Ω)

Current-Limited
6V Charger



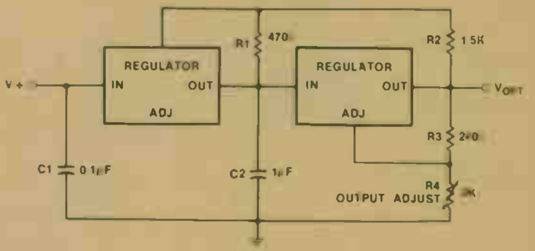
Notes A Use of an input bypass capacitor is recommended if regulator is far from filter capacitors
B Use of an output capacitor improves transient response but is optional
C V_{ref} equals the difference between the output and adjustment terminal voltages
D Output voltage is calculated from the equation $V_{OUT} = V_{ref}(1 + R2/R1)$

Adjustable
Voltage Regulator

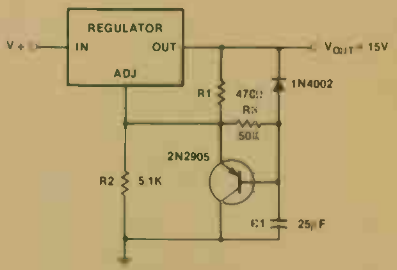


* Minimum load current is 30mA
** Optional capacitor improves ripple rejection

High-Current
Adjustable Regulator



Tracking
Preregulator Circuit



Slow-Turn-On 15 V
Regulator Circuit

317K
276-1777
317T
276-1778

3-TERMINAL ADJUSTABLE POSITIVE REGULATOR

GENERAL DESCRIPTION

The 317K and 317T are adjustable 3-terminal positive voltage regulators capable of supplying in excess of 1.5 A over a 1.2 V to 37 V output range. These devices are exceptionally easy to use and requires only two external resistors to set the output voltage.

In addition to higher performance than fixed regulators, the 317K and 317T offers full overload protection available only in IC's. Included on the chip are current limit, thermal overload protection and safe area protection. All overload protection circuitry remains fully functional even if the adjustment terminal is disconnected.

Normally, no capacitors are needed unless the device is situated far from the input filter capacitors in which case an input bypass is needed. An optional output capacitor can be added to improve transient response. The adjustment terminal can be bypassed to achieve very high ripple rejections ratios which are difficult to achieve with standard 3-terminal regulators.

Besides replacing fixed regulators, the 317K and 317T are useful in a wide variety of other applications. Since the regulator is "floating" and sees only the input-to-output differential voltage, supplies of several hundred volts can be regulated as long as the maximum input to output differential is not exceeded.

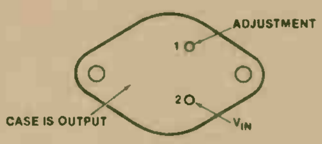
Also, they make especially simple adjustable switching regulators, programmable output regulators, or by connecting a fixed resistor between the adjustment and output, the 317K and 317T can be used as a precision current regulator. Supplies with electronic shutdown can be achieved by clamping the adjustment terminal to ground which programs the output to 1.2 V where most loads draw little current.

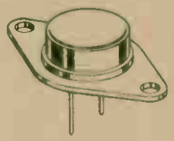
FEATURES

- Adjustable output down to 1.2V
- Guaranteed 1.5A outpput current
- Line regulation typically 0.01%/V
- Load regulation typically 0.1%
- Current limit constant with temperature
- 100% electrical burn-in
- Eliminates the need to stock many voltages
- Standard 3-lead transistor package
- 80 dB ripple rejection

PIN CONNECTIONS

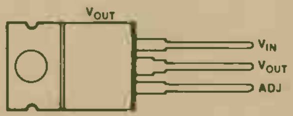
BOTTOM VIEW

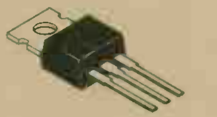




317K

FRONT VIEW



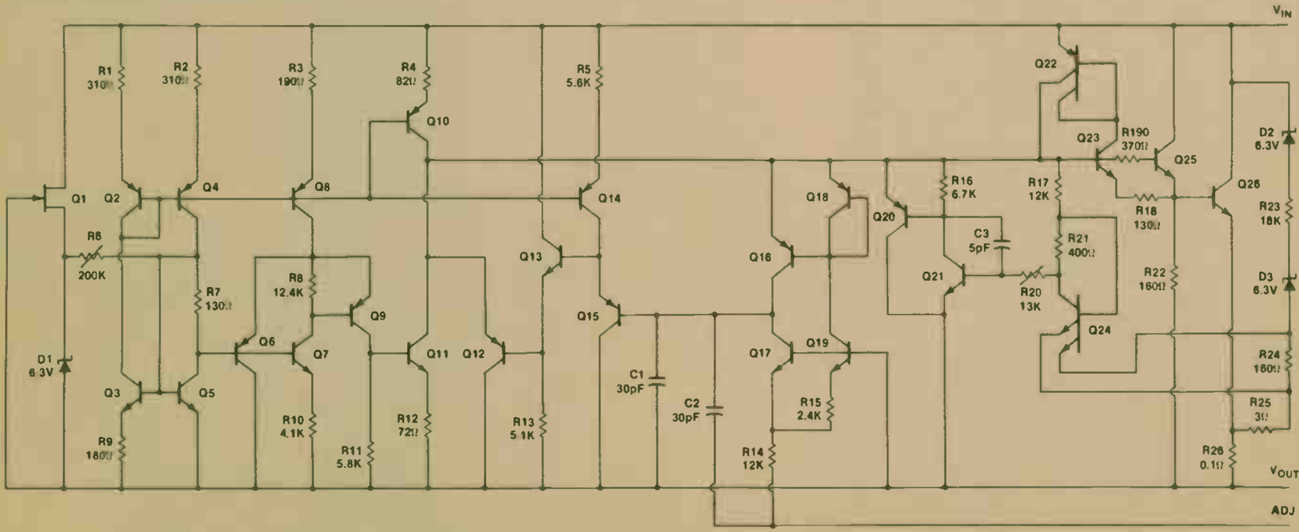


317T

ABSOLUTE MAXIMUM RATINGS

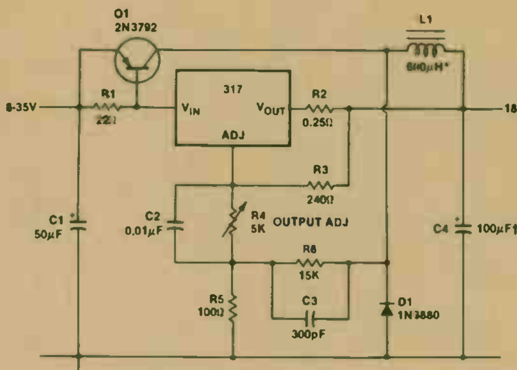
Power Dissipation	Internally limited
Input-Output Voltage Differential	40V
Operating Junction Temperature Range	0 to +125°C
Storage Temperature	−65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

INTERNAL CIRCUIT



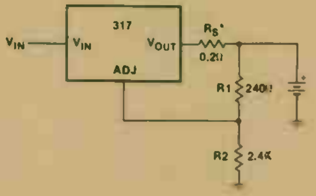
317K 276-1777 317T 276-1778

TYPICAL APPLICATIONS

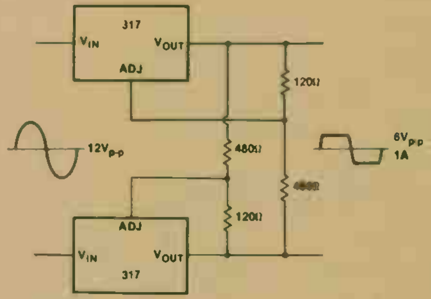


†Solid Tantalum
*Core—Arnold A-254168-2 60 turns

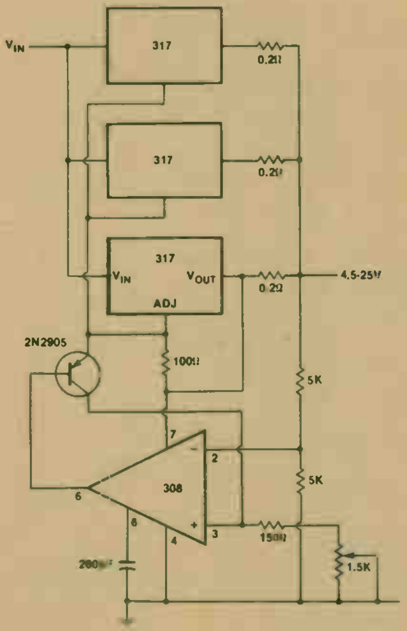
Low Cost 3A Switching Regulator



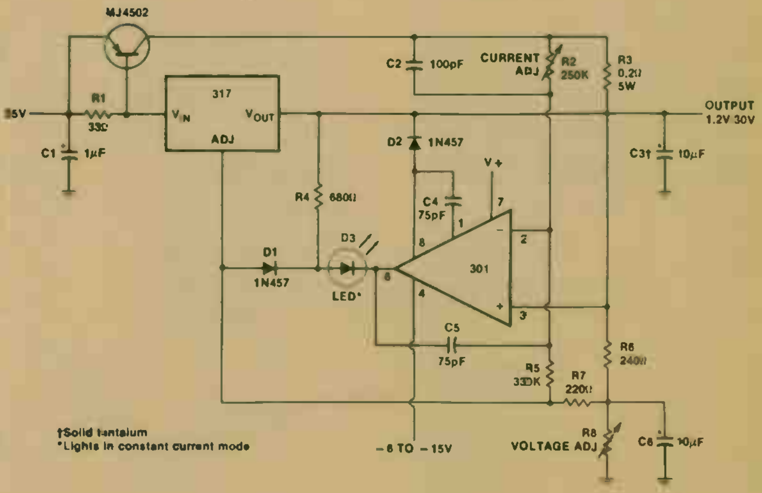
12V Battery Charger



AC Voltage Regulator



Adjustable 4A Regulator

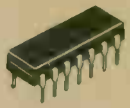


†Solid tantalum
*Lights in constant current mode

5A Constant Voltage/Constant Current Regulator

723
276-1740

ADJUSTABLE VOLTAGE REGULATOR



GENERAL DESCRIPTION

The 723 is a voltage regulator designed primarily for series regulator applications. By itself, it will supply output currents up to 150 mA; but external transistors can be added to provide any desired load current. The circuit features extremely low standby current drain, and provision is made for either linear or foldback current limiting.

FEATURES

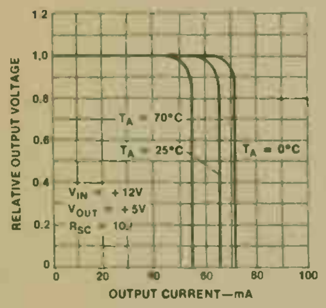
- 150 mA output current without external pass transistor
- Output currents in excess of 10A possible by adding external transistors
- Input voltage 40V max
- Output voltage adjustable from 2V to 37V
- Can be used as either a linear or a switching regulator

The 723 is also useful in a wide range of other applications such as a shunt regulator, a current regulator or a temperature controller.

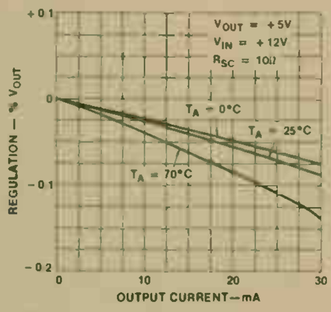
ABSOLUTE MAXIMUM RATINGS

Pulse Voltage from V+ to V− (50 ms)	50V
Continuous Voltage from V+ to V−	40V
Input-Output Voltage Differential	40V
Maximum Amplifier Input Voltage (Either Input)	7.5V
Maximum Amplifier Input Voltage (Differential)	5V
Current from V_Z	25 mA
Current from V_{REF}	15 mA
Internal Power Dissipation Metal Can	800 mW
Cavity DIP	900 mW
Molded DIP	660 mW
Operating Temperature Range	0 to +70°C
Storage Temperature Range Metal Can	−65 to +150°C
DIP	−55 to +125°C
Lead Temperature (Soldering, 10 sec)	300°C

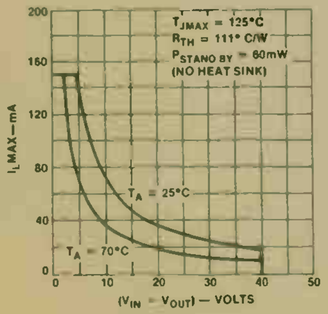
TYPICAL CHARACTERISTICS



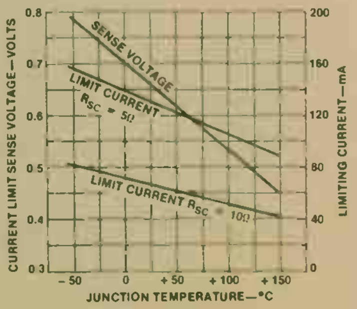
Relative Output Voltage vs Output Current



Load Regulation vs Output Current

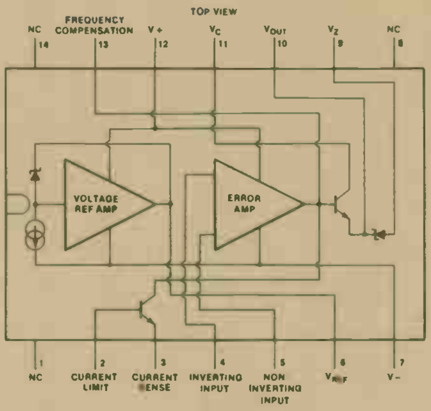


Maximum Load Current vs Input-Output Voltage Differential

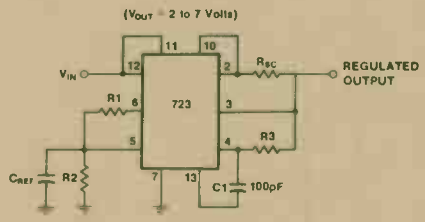


Current Limit Sense Voltage vs Junction Temperature

PIN CONNECTION



TYPICAL APPLICATIONS

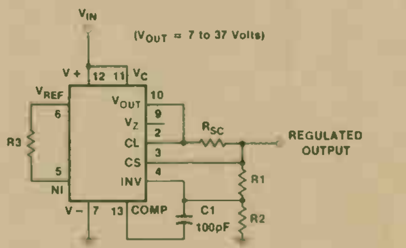


TYPICAL PERFORMANCE

Regulated Output Voltage	5V
Line Regulation (ΔV_{IN} = 3V)	0.5mV
Load Regulation (ΔI_L = 50mA)	1.5mV

Note: $R3 = \frac{R1\,R2}{R1 + R2}$ for minimum temperature drift.

Basic Low Voltage Regulator



TYPICAL PERFORMANCE

Regulated Output Voltage	15V
Line Regulation (ΔV_{IN} = 3V)	1.5mV
Load Regulation (ΔI_L = 50mA)	4.5mV

Note: $R3 = \frac{R1R2}{R1 + R2}$ for minimum temperature drift

Basic High Voltage Regulator

5V VOLTAGE REGULATOR
7805
276-1770

12V VOLTAGE REGULATOR
7812
276-1771

15V VOLTAGE REGULATOR
7815
276-1772

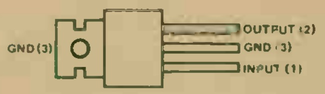
GENERAL DESCRIPTION

This series of three terminal regulators is available with several fixed output voltages making them useful in a wide range of applications. One of these is local on card regulation, eliminating the distribution problems associated with single point regulation. The voltages available allow these regulators to be used in logic systems, instrumentation, HiFi, and other solid state electronic equipment. Although designed primarily as fixed voltage regulators these devices can be used with external components to obtain adjustable voltages and currents.

This series will allow over 1.5A load current if adequate heat sinking is provided. Current limiting is included to limit the peak output current to a safe value. Safe area protection for the output transistor is provided to limit internal power dissipation. If internal power dissipation becomes too high for the heat sinking provided the thermal shutdown circuit takes over preventing the IC from overheating.

PIN CONNECTION

TOP VIEW



FEATURES

- Internal thermal overload protection
- No external components required
- Output transistor safe area protection
- Internal short circuit current limit

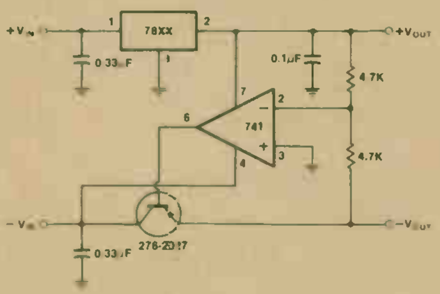
VOLTAGE RANGE

7805	5V
7812	12V
7815	15V

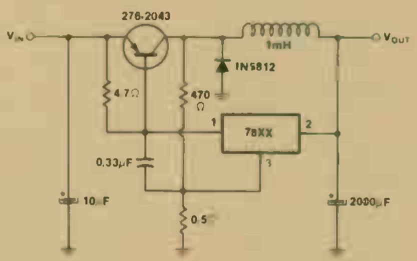
ABSOLUTE MAXIMUM RATINGS

Input Voltage	
(Output Voltage Options 5V through 18V)	35V
(Output Voltage Option 24V)	40V
Internal Power Dissipation	Internally Limited
Maximum Junction Temperature	150°C
Operating Temperature Range	0 to +70°C
Storage Temperature Range	−65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

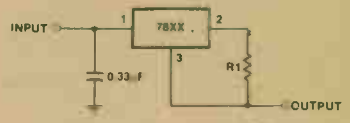
TYPICAL APPLICATIONS



±Tracking Voltage Regulator

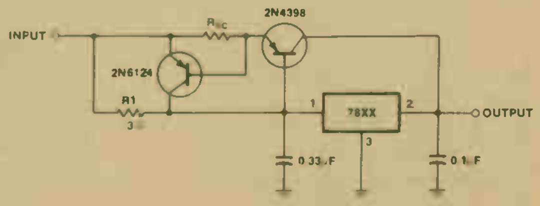


Switching Regulator

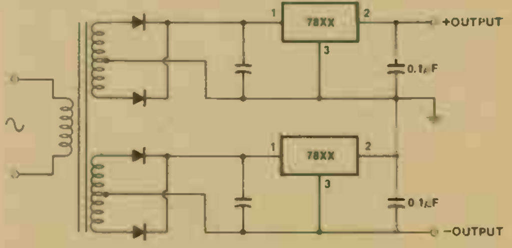


OUTPUT CURRENT $\frac{V_{OUT}}{R1}$

Current Regulator



High Output Current, Short Circuit Protected



Positive and Negative Regulator

7905
276-1773

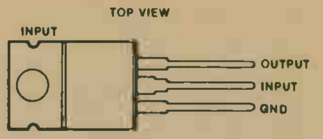
3-TERMINAL NEGATIVE REGULATOR

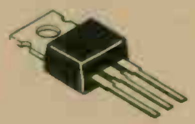
GENERAL DESCRIPTION

This regulator employs internal current limiting, safe area protection and thermal shutdown for protection against virtually all overload conditions.

Low ground pin current of the 7905 allows output voltage to be easily boosted above the preset value with a resistor divider. The low quiescent current drain of this device ensures good regulation in the voltage boosted mode.

PIN CONNECTION





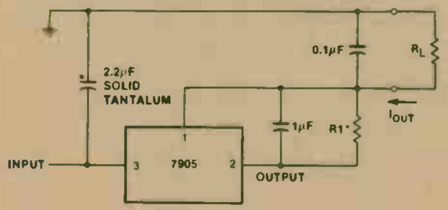
FEATURES

- Thermal, short circuit and safe area protection
- High ripple rejection
- 1.5A output current
- 4% preset output voltage

ABSOLUTE MAXIMUM RATINGS

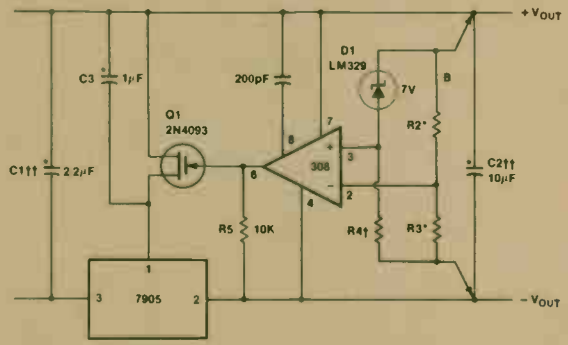
Input Voltage ($V_o = 5V$)	−35 V
Input/Output Differential ($V_o = 5V$)	25 V
Power Dissipation	Internally Limited
Operating Temperature Range	0 to +125°C
Storage Temperature Range	−65 to +150°C
Lead Temperature (Soldering, 10 seconds)	230°C

TYPICAL APPLICATIONS



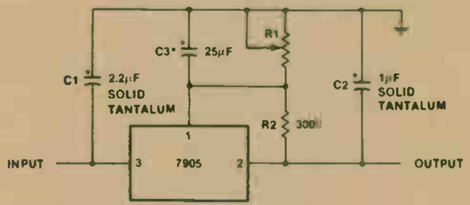
*I_{OUT} = 1mA + 5V/R1

Current Source



Load and line regulation ≤ 0.01%, temperature stability ≤ 0.2%
† Determines zener current.
†† Solid tantalum
*Select resistors to set output voltage 2ppm/°C tracking suggested

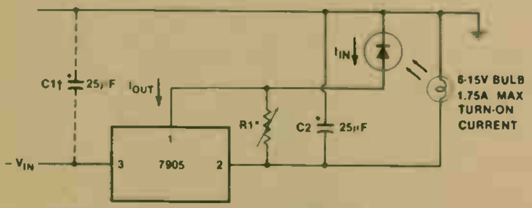
High Stability 1 Amp Regulator



*Improves transient response and ripple rejection
Do not increase beyond 50μF

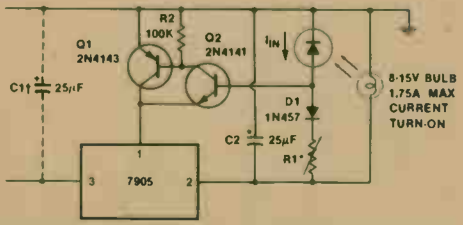
$V_{OUT} = V_{SET}(\frac{R1+R2}{R2})$

Variable Output



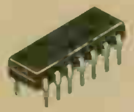
*Lamp brightness increases until $I_{IN} = I_{OUT}$ (≈ 1mA) + 5V/R1
† Necessary only if raw supply filter capacitor is more than 2" from LM7905CT

Light Controller Using a Silicon Photo Cell



*Lamp brightness increases until I_{IN} = 5V/R1 (I_{IN} can be set as low as 1μA).
† Necessary only if raw supply filter capacitor is more than 2" from LM7905CT

Light Controller Using a Silicon Photo Cell



QUAD BI-FET OPERATIONAL AMPLIFIER

TL084CN
276-1714

GENERAL DESCRIPTION

The TL084 JFET-input operational amplifier is designed to offer better performance than any previously developed quad-operational amplifier. Each of these JFET-input operational amplifiers incorporates well-matched, high-voltage JFET and bipolar transistors in a monolithic integrated circuit. The devices feature high slew rates, low input bias and offset currents, and low offset voltage temperature coefficient

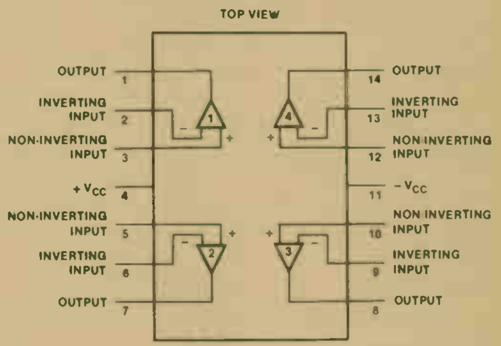
FEATURES

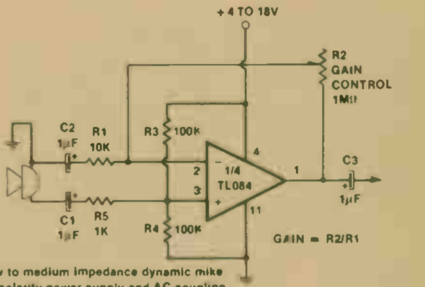
- Low power consumption
- Wide common-mode and differential voltage ranges
- Low input bias and offset currents
- Output short-circuit protection
- High input impedance—JFET-input stage
- Internal frequency compensation
- Latch-up-free operation
- High slew rate—13 V/μs Typ

ABSOLUTE MAXIMUM RATINGS

Supply Voltage, $V_{CC}+$	18V
Supply Voltage, $V_{CC}-$	−18V
Differential Input Voltage	±30V
Input Voltage	±15V
Duration of Output Short Circuit	Unlimited
Continuous Total Dissipation at (or Below) 25°C Free-Air Temperature	680 mW
Operating Free-Air Temperature Range	0 to +70°C
Storage Temperature Range	−65 to +150°C
Lead Temperature 1/16 inch from Case for 10 Seconds	260°C

PIN CONNECTION

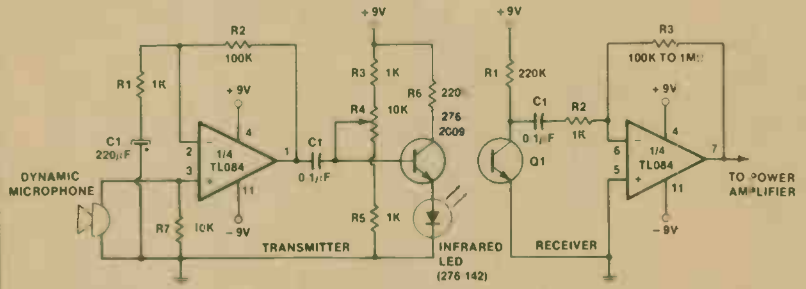




Note
Use low to medium impedance dynamic mike
Single polarity power supply and AC coupling

Microphone Preamplifier

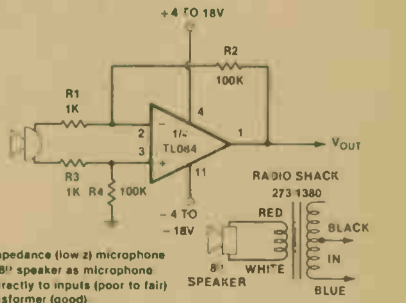
TYPICAL APPLICATIONS



Point the led at Q1 and adjust R4 until best voice quality is obtained (R4 applies prebias to LED.) R6 limits maximum led current to a safe 40mA

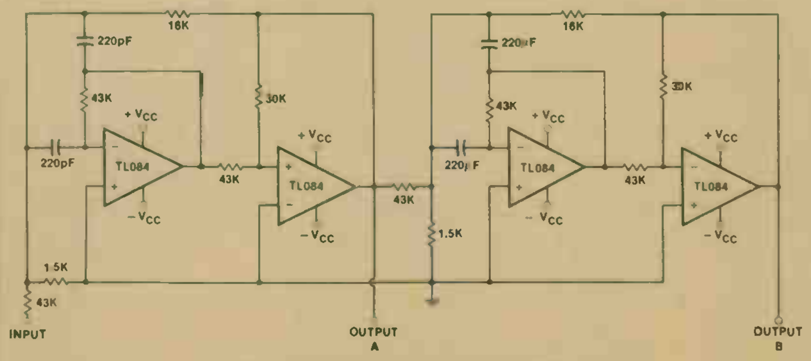
Use RADIO SHACK 276 130 phototransistor for Q1
Maximum range: Hundreds of feet at night with lenses at Q1 and LED
Power amp: See LM386

Infrared Voice Communicator

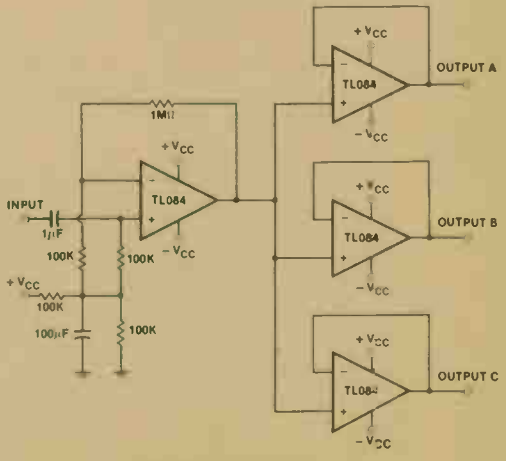


Use low impedance (low z) microphone
Ok to use 8Ω speaker as microphone
Connect directly to inputs (poor to fair)
or use transformer (good)

Low-Z Preamplifier



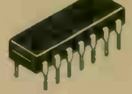
Positive—Feedback Bandpass Filter



Audio Distribution Amplifier

324
276-1711

QUAD OP AMP

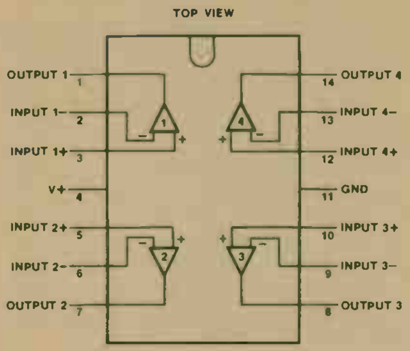


GENERAL DESCRIPTION

The 324 series consists of four independent, high gain, internally frequency compensated operational amplifiers which were designed specifically to operate from a single power supply over a wide range of voltages. Operation from split power supplies is also possible and the low power supply current drain is independent of the magnitude of the power supply voltage.

Application areas include transducer amplifiers, dc gain blocks and all the conventional op amp circuits which now can be more easily implemented in single power supply systems. For example, the 324 series can be directly operated off of the standard +5 V_{DC} power supply voltage which is used in digital systems and will easily provide the required interface electronics without requiring the additional +15 V_{DC} power supplies.

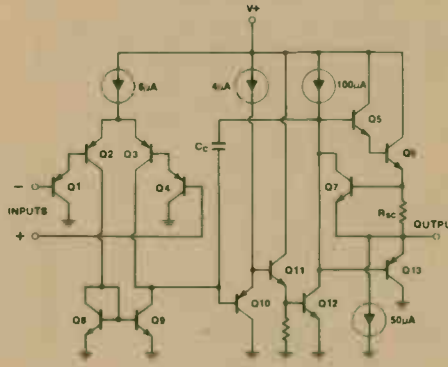
PIN CONNECTION



FEATURES

- Internally frequency compensated for unity gain
- Large dc voltage gain 100 dB
- Wide bandwidth (unity gain) 1 MHz (temperature compensated)
- Wide power supply range:
  Single supply 3 V_{DC} to 30 V_{DC}
  or dual supplies ±1.5 V_{DC} to ±15 V_{DC}
- Very low supply current drain (800 μA)—essentially independent of supply voltage (1 mW/op amp at +5 V_{DC})
- Low input biasing current 45 nA_{DC} (temperature compensated)
- Low input offset voltage 2 mV_{DC} and offset current 5 nA_{DC}
- Input common-mode voltage range includes ground
- Differential input voltage range equal to the power supply voltage
- Large output voltage swing 0 V_{DC} to $V^+ - 1.5$ V_{DC}

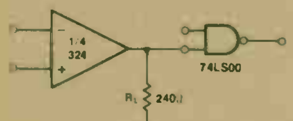
INTERNAL CIRCUIT
(Each Amplifier)



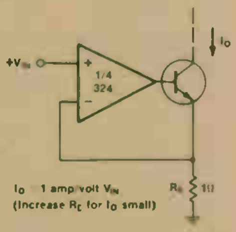
ABSOLUTE MAXIMUM RATINGS

Supply Voltage, V^+	32 V_{DC} or ±16 V_{DC}
Differential Input Voltage	32 V_{DC}
Input Voltage	−0.3 V_{DC} to +32 V_{DC}
Power Dissipation	
Molded DIP	570 mW
Cavity DIP	900 nW
Output Short-Circuit to GND (One Amplifier) $V^+ \leq 15$ V_{DC} and $T_A = 25°C$	Continuous
Input Current ($V_{IN} < -0.3$ V_{OL})	50 mA
Operating Temperature Range	0 to +70°C
Storage Temperature Range	−65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

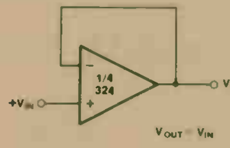
TYPICAL APPLICATIONS



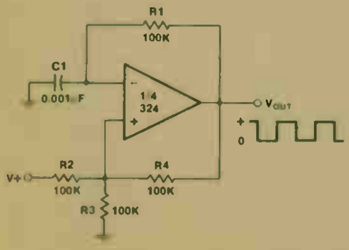
Driving TTL



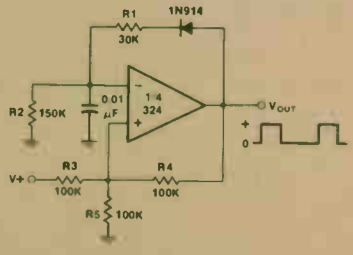
High Compliance Current Sink



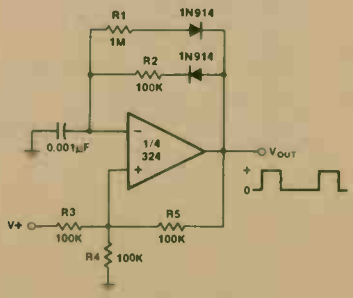
Voltage Follower



Squarewave Oscillator



Pulse Generator



Pulse Generator

WIDE BANDWIDTH DUAL JFET INPUT OPERATIONAL AMPLIFIER

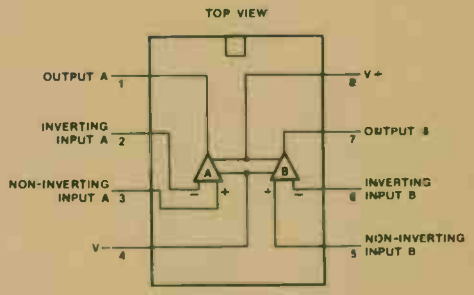
353
276-1715

GENERAL DESCRIPTION

These devices are low cost, high speed, dual JFET input operational amplifiers with an internally trimmed input offset voltage (BI-FET II™ technology). They require low supply current yet maintain a large gain bandwidth product and fast slew rate. In addition, well matched high voltage JFET input devices provide very low input bias and offset currents.

These amplifiers may be used in applications such as high speed integrators, fast D/A converters, sample and hold circuits and many other circuits requiring low input offset voltage, low input bias current, high input impedance, high slew rate and wide bandwidth. The devices also exhibit low noise and offset voltage drift.

PIN CONNECTION



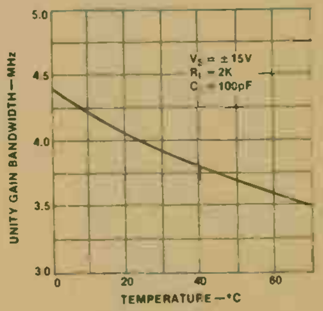
FEATURES

- Internally trimmed offset voltage = 2 mV
- Low input bias current = 50 pA
- Low input noise voltage = 16 nV/√Hz
- Low input noise current = 0.01 pA/√Hz
- Wide gain bandwidth = 4 MHz
- High slew rate = 13 V/µs
- Low supply current = 3.6 mA
- High input impedance = $10^{12}\Omega$
- Low total harmonic distortion $A_V = 10$, $R_L = 10k$, $V_O = 20$ Vp-p, BW = 20 Hz−20kHz = <0.02%
- Low 1/f noise corner = 50 Hz
- Fast settling time to 0.01% = 2 µs

ABSOLUTE MAXIMUM RATINGS

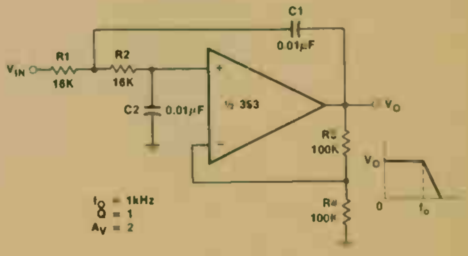
Supply Voltage	±18V
Power Dissipation	500 mW
Differential Input Voltage	±30V
Input Voltage Range	±15V
Output Short Circuit Duration	Continuous
$T_{J(MAX)}$	115°C
Operating Temperature Range	0 to +70°C
Storage Temperature Range	−65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

TYPICAL CHARACTERISTICS

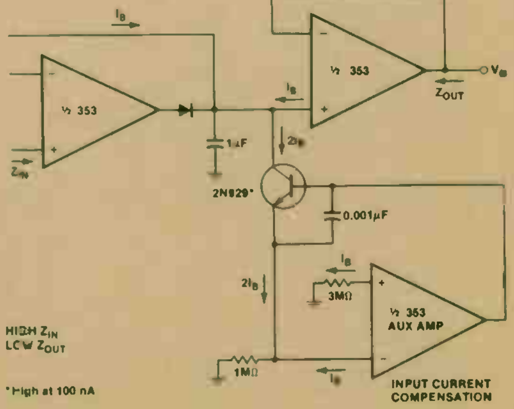


Unity Gain Bandwidth
vs Temperature

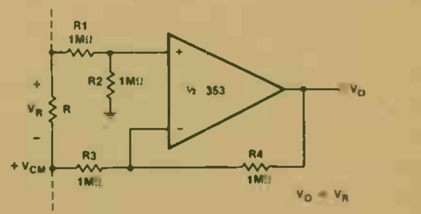
TYPICAL APPLICATIONS



DC Coupled Low-Pass RC Active Filter



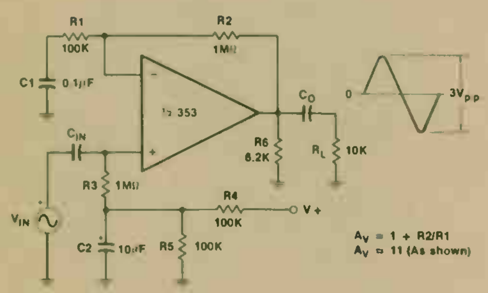
Low Drift Peak Detector



Ground Referencing A Differential Input Signal

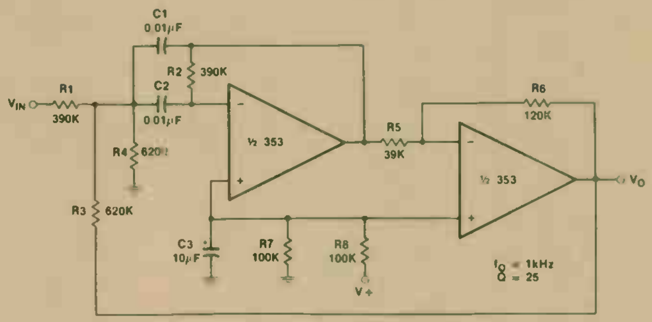
353 276-1715

TYPICAL APPLICATIONS (Cont'd)

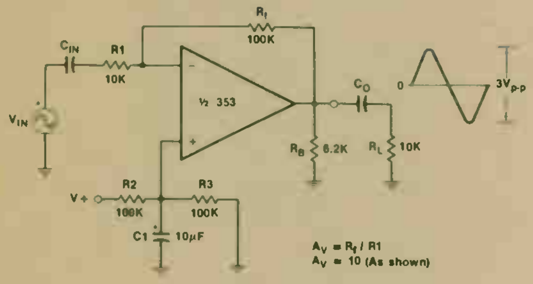


$A_V = 1 + R2/R1$
$A_V = 11$ (As shown)

AC Coupled Non-Inverting Amplifier

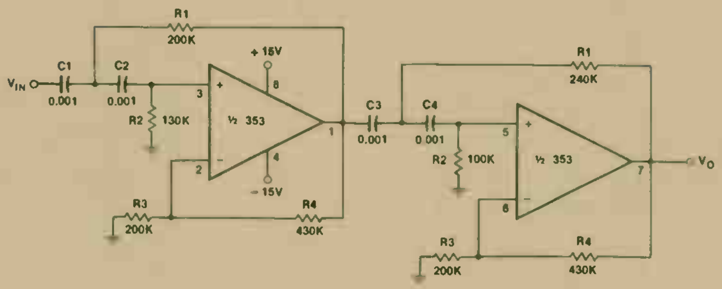


Bandpass Active Filter

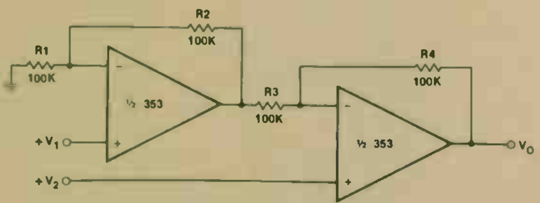


$A_V = R_f / R1$
$A_V = 10$ (As shown)

AC Coupled Inverting Amplifier

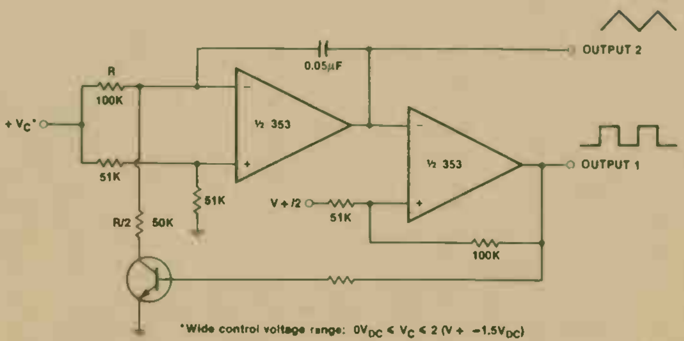


Fourth Order High Pass Butterworth Filter



For R1/R2 = R4/R3 (CMRR depends on this resistor ratio match)
$V_O = 1 + R4/R3\ (V_2 - V_1)$
As shown $V_O = 2(V_2 - V_1)$

High Input Z, DC Differential Amplifier



*Wide control voltage range: $0V_{DC} \leq V_C \leq 2\ (V+ \ -1.5V_{DC})$

Voltage Controlled Oscillator (VCO)

OPERATIONAL AMPLIFIER

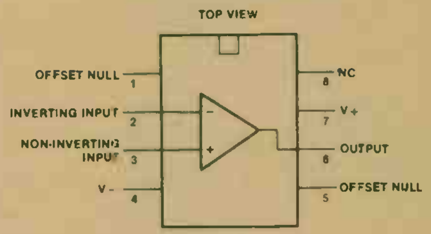
741
276-007

GENERAL DESCRIPTION

The 741 series are general purpose operational amplifiers which feature improved performance over industry standards.

The amplifiers offer many features which make their application nearly foolproof: overload protection on the input and output, no latch-up when the common mode range is exceeded, as well as freedom from oscillations.

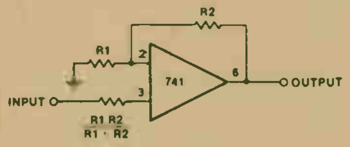
PIN CONNECTION



ABSOLUTE MAXIMUM RATINGS

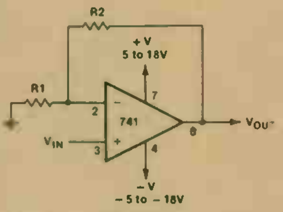
Supply Voltage	±16V
Power Dissipation	500 mW
Differential Input Voltage	±30V
Input Voltage	±15V
Output Short Circuit Duration	Indefinite
Operating Temperature Range	0 to +70°C
Storage Temperature Range	−65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

TYPICAL APPLICATIONS



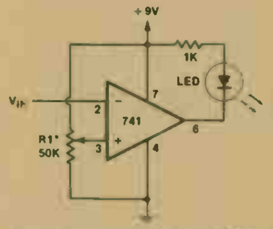
GAIN	R1	R2	BW	R_{IN}
10	1K	9K	100kHz	400MΩ
100	100Ω	9.9K	10kHz	280MΩ
1000	100Ω	99.9K	1kHz	80MΩ

Non-Inverting Amplifier



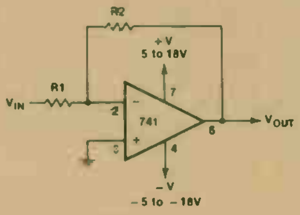
$V_{OUT} = V_{IN} (1 + R2/R1)$

Non-Inverting Amplifier



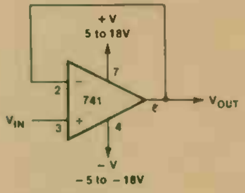
*R1 sets the voltage detection threshold (up to +9V). When V_{IN} exceeds the threshold (reference), the LED glows

Level Detector



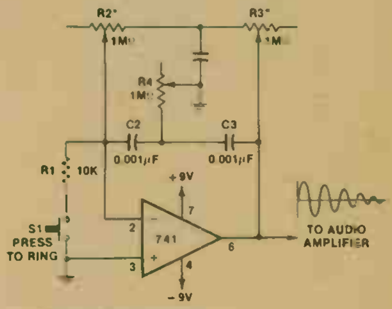
$V_{OUT} = -V_{IN} (R2/R1)$

Inverting Amplifier



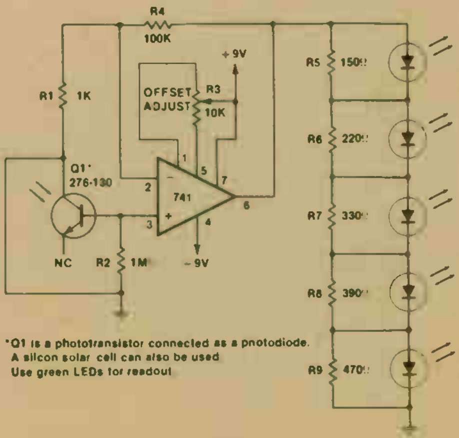
$V_{OUT} = V_{IN}$

Unity Gain Follower



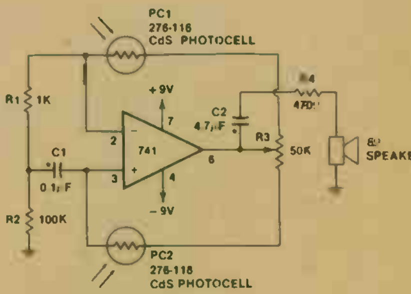
*Adjust R3 to just below oscillation point.
Adjust R2 and R3 for sounds such as bell, drum, tinkling, etc.

Electronic Bell



*Q1 is a phototransistor connected as a photodiode.
A silicon solar cell can also be used.
Use green LEDs for readout.

Bargraph Light Meter

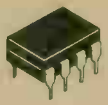


Light on PC1 decreases tone frequency
Light on PC2 increases tone frequency

Audible Light Sensor

1458
276-038

DUAL OPERATIONAL AMPLIFIER



GENERAL DESCRIPTION

The 1458 is a general purpose dual operational amplifier. The two amplifiers share a common bias network and power supply leads. Otherwise, their operation is completely independent.

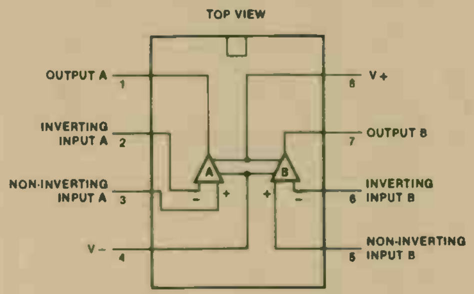
FEATURES

- No frequency compensation required.
- Short-circuit protection
- Wide common-mode and differential voltage ranges
- Low-power consumption
- No latch up when input common mode range is exceeded

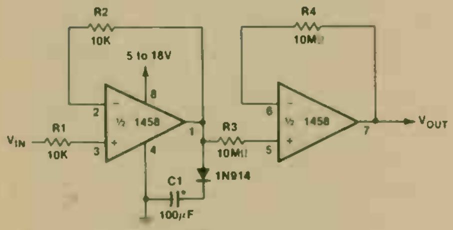
ABSOLUTE MAXIMUM RATINGS

Supply Voltage	±16V
Power Dissipation	400 mW
Differential Input Voltage	±30V
Input Voltage	±15V
Output Short-Circuit Duration	Indefinite
Operating Temperature Range	0 to +70°C
Storage Temperature Range	−65 to +150°C
Lead Temperature (Soldering, 10 sec)	300°C

PIN CONNECTION

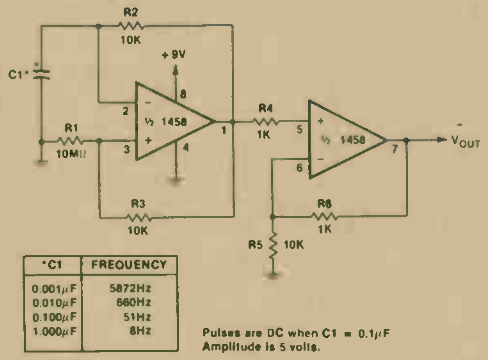


TYPICAL APPLICATIONS



C1 stores the peak voltage at V_{IN}

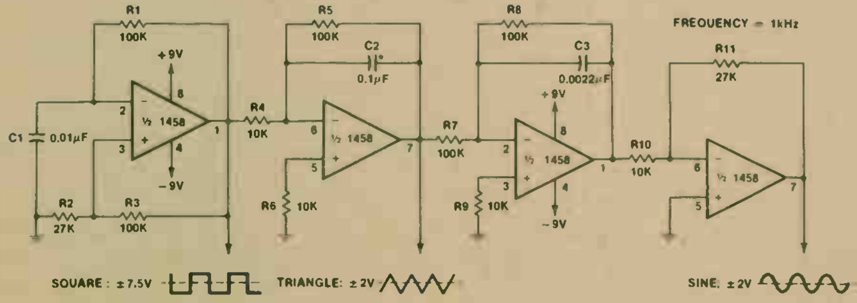
Peak Detector



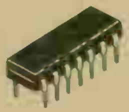
*C1	FREQUENCY
0.001μF	5872Hz
0.010μF	660Hz
0.100μF	51Hz
1.000μF	8Hz

Pulses are DC when C1 = 0.1μF
Amplitude is 5 volts.

Pulse Generator



Function Generator



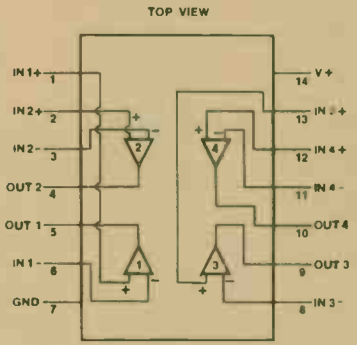
QUAD OPERATIONAL NORTON AMPLIFIER

3900
276-1713

GENERAL DESCRIPTION

The 3900 series consists of four independent, dual input, internally compensated amplifiers which were designed specifically to operate off of a single power supply voltage and to provide a large output voltage swing. These amplifiers make use of a current mirror to achieve the non-inverting input function. Application areas include: ac amplifiers, RC active filters, low frequency triangle, squarewave and pulse waveform generation circuits, tachometers and low speed, high voltage digital logic gates.

PIN CONNECTION



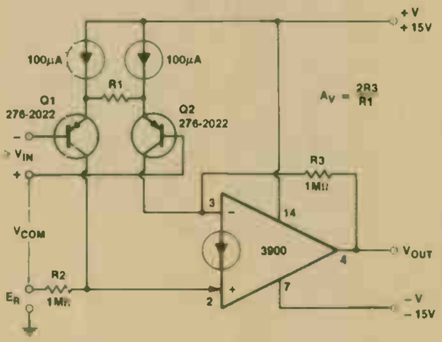
FEATURES

- Wide single supply voltage 4 V_{DC} to 36 V_{DC} range or dual supplies ±2 V_{DC} to ±18 V_{DC}
- Supply current drain independent of supply voltage
- Low input biasing current 30 nA
- High open-loop gain 70 dB
- Wide bandwidth 2.5 MHz (Unity Gain)
- Large output voltage swing $(V^{+} - 1)\ V_{p\text{-}p}$
- Internally frequency compensated for unity gain
- Output short-circuit protection

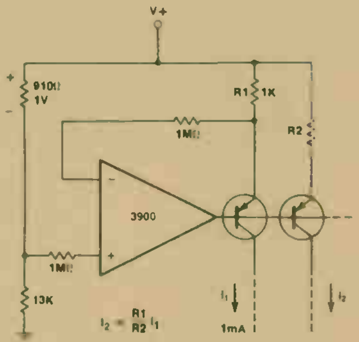
ABSOLUTE MAXIMUM RATINGS

Supply Voltage (Wide Range, Single Supply)	32 V_{DC}
Supply Voltage (Wide Range, Dual Supply)	±16 V_{DC}
Power Dissipation (T_A = 25°C)	
Flat Pack	570 mW
Input Currents, I_{IN}^{+} or I_{IN}^{-}	20 mA_{DC}
Output Short-Circuit Duration—One Amplifier T_A = 25°C (See Application Hints)	Continuous
Operating Temperature Range	0 to +70°C
Storage Temperature Range	−65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

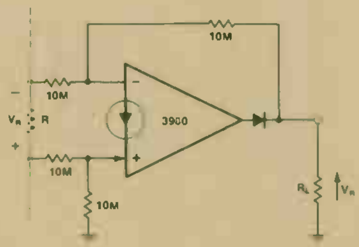
TYPICAL APPLICATIONS



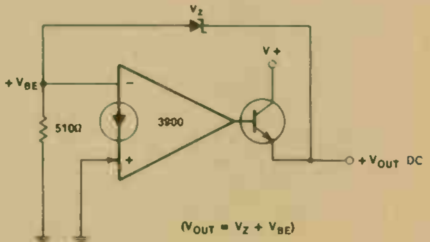
Basic Instrumentation Amplifier



Fixed Current Sources



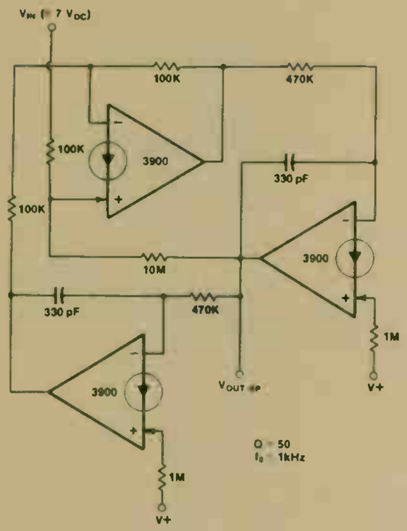
Ground-Referencing a
Differential Input Signal



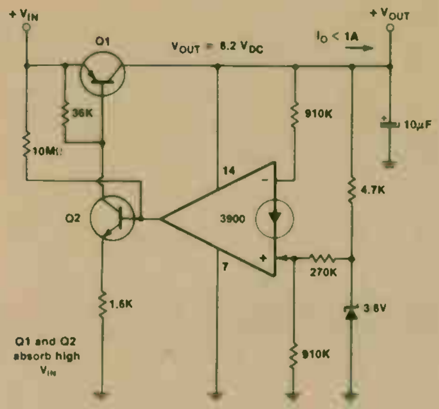
Voltage Regulator

3900 276-1713

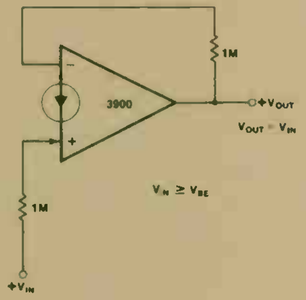
TYPICAL APPLICATIONS (Con't)



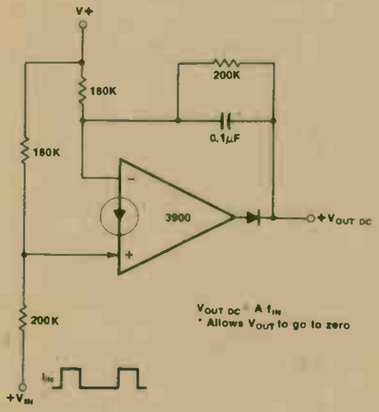
Bi-Quad Active Filter
(2nd Degree State-Variable Network)



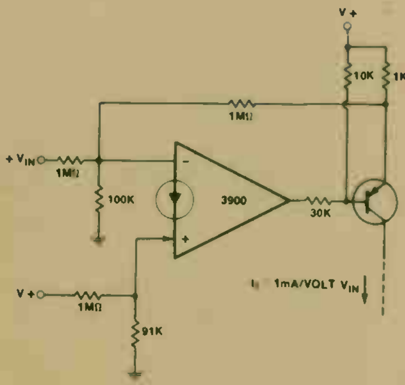
High V_{IN}, Low (V_{IN} − V_{OUT}) Self Regulator



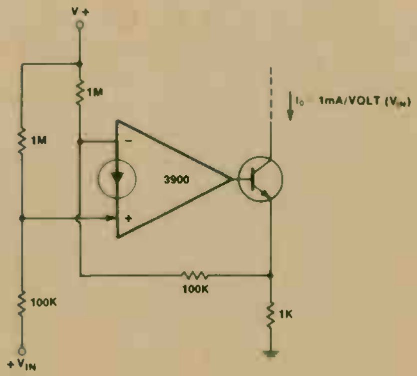
Buffer Amplifier



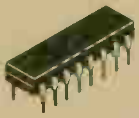
Tachometer



Voltage Controlled Current Source
(Transconductance Amplifier)



Voltage-Controlled Current Sink
(Transconductance Amplifier)



PROGRAMMABLE TIMER/COUNTER

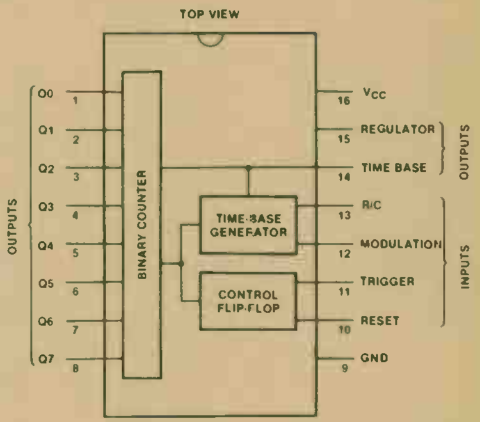
uA2240C
276-1735

GENERAL DESCRIPTION

These circuits consist of a time-base oscillator, an eight-bit counter, a control flip-flop, and a voltage regulator. The frequency of the time-base oscillator is set by the time constant of an external resistor and capacitor at pin 13 and can be synchronized or modulated by signals applied to the modulation input. The output of the time-base section is applied directly to the input of the counter section and also appears at pin 14 (time base). The time-base pin may be used to monitor the frequency of the oscillator, to provide an output pulse to other circuitry, or (with the time-base section disabled) to drive the counter input from an external source. The counter input is activated on a negative-going transition. The reset input stops the time-base oscillator and sets each binary output, Q0 through Q7, and the time-base output to a TTL high level. After resetting, the trigger input starts the oscillator and all Q outputs go low. Once triggered, the uA2240 will ignore any signals at the trigger input until it is reset.

This timer/counter may be operated in the free-running mode or with output-signal feedback to the reset input for automatic reset. Two or more binary outputs may be connected together to generate complex pulse patterns, or each output may be used separately to provide eight output frequencies. Using two circuits in cascade can provide precise time delays of up to three years.

PIN CONNECTION



ABSOLUTE MAXIMUM RATINGS

Supply Voltage, V_{CC}	18 V
Output Voltage: Q0 thru Q7	18 V
Output Current: Q0 thru Q7	10 mA
Regulator Output Current	−5 mA
Continuous Dissipation at (or below) 25°C Free-Air Temperature	650 mW
Operating Free-Air Temperature Range	0 to 70°C

RECOMMENDED OPERATING CONDITIONS

Supply Voltage	15 V
Timing Resistor	10 MΩ
Timing Capacitor	1000 μF
Counter Input Frequency (Pin 14)	1.5 MHz
Pull-Up Resistor, Time-Base Output	20 KΩ
Trigger and Reset Input Pulse Voltage	2 to 3 V
Trigger and Reset Input Pulse Width	2 μs
External Clock Input Pulse Voltage	3 V
External Clock Input Pulse Width	1 μs

TEST CIRCUITS

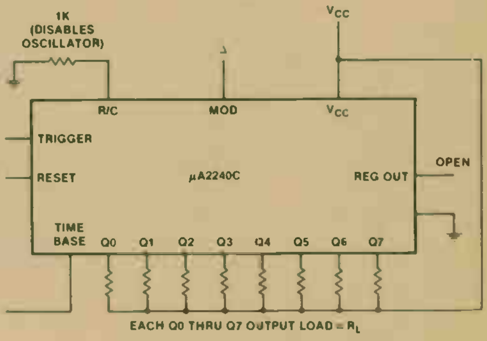


Figure 2—Counter Test Circuit

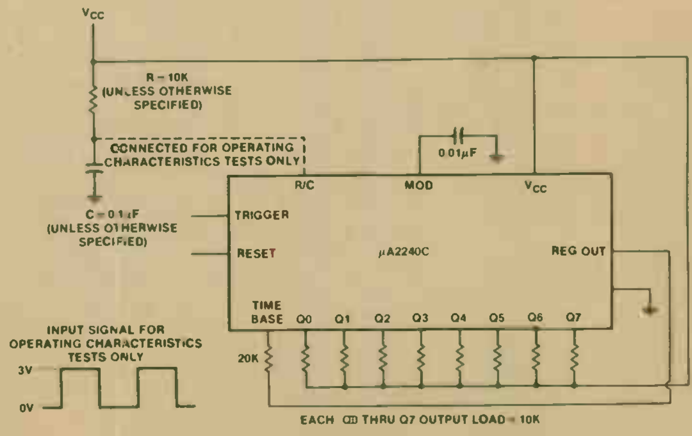

VCC
R = 10K
(UNLESS OTHERWISE SPECIFIED)
CONNECTED FOR OPERATING CHARACTERISTICS TESTS ONLY
0.01μF
C = 0.1μF
(UNLESS OTHERWISE SPECIFIED)
R/C
MOD
VCC
TRIGGER
RESET
μA2240C
REG OUT
TIME BASE
Q0
Q1
Q2
Q3
Q4
Q5
Q6
Q7
INPUT SIGNAL FOR OPERATING CHARACTERISTICS TESTS ONLY
3V
0V
20K
EACH Q0 THRU Q7 OUTPUT LOAD = 10K

Figure 1—General Test Circuit

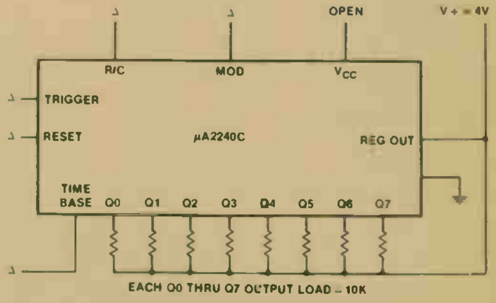
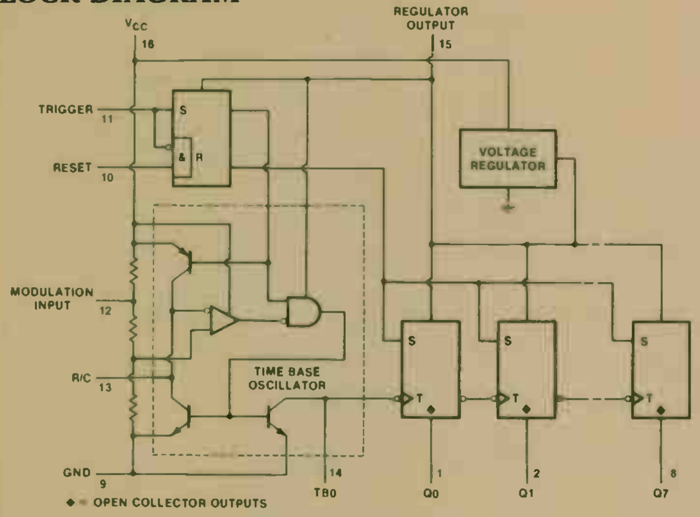


Figure 3—Reduced-Power Test Circuit (Time Base Disabled)

uA2240C 276-1735

BLOCK DIAGRAM



TYPICAL APPLICATIONS

These are voltage waveforms for typical operation of the uA2240. If both reset and trigger inputs are low during power-up, the timer/counter will be in a reset state with all binary (Q) outputs high and the oscillator stopped. In this state, a high level on the trigger input starts the time-base oscillator. The initial negative-going pulse from the oscillator sets the Q outputs to low logic levels at the beginning of the first time-base period. The uA2240 will ignore any further signals at the trigger input until after a reset signal is applied to the reset input. With the trigger input low, a high level at the reset input will set Q outputs high and stop the time-base oscillator. If the reset signal occurs while the trigger input is high, the reset is ignored. If the reset input remains high when the trigger input goes low, the uA2240 will reset.

In monostable application of the uA2240 one or more of the binary outputs will be connected to the reset terminal as shown in Figure 6. The binary outputs are open-collector stages that can be connected together to a common pull-up resistor to provide a "wired-OR" function. The combined output will be low as long as any one of the outputs is low. This type of arrangement can be used for time delays that are integer multiples of the time-base period. For example, if Q5 ($2^5 = 32$) only is connected to the reset input, every trigger pulse will generate a 32-period active-low output. Similarly, if Q0, Q4, and Q5 are connected to reset, each trigger pulse creates a 49-period delay.

In astable operation, the uA2240 will free-run from the time it is triggered until it receives an external reset signal.

The period of the time-base oscillator is equal to the RC time constant of an external resistor and capacitor connected as shown in Figure 6 when the modulation input is open (approximately 3.5 volts internal, see Figure 4). Under conditions of high supply voltage ($V_{CC} > 7$ V) and low value of timing capacitor ($C < 0.1\mu F$), the pulse width of the time-base oscillator may be too short to properly trigger the counters. This situation can be corrected by adding a 300-picofarad capacitor between the time-base output and ground. The time-base output (TBO) is an open-collector output that requires a 20-KΩ pull-up resistor to Pin 15 for proper operation. The time-base pin may also be used as an input to the counters for an external time-base or as an active-low inhibit input to interrupt counting without resetting.

The modulation input varies the ratio of the time-base period to the RC time constant as a function of the dc bias voltage (see Figure 4). It can also be used to synchronize the timer/counter to an external clock or sync signal.

The regulator output is used internally to drive the binary counters and the control logic. This terminal can also be used to supply voltage to additional uA2240 devices to minimize power dissipation when several timer circuits are cascaded. For circuit operation with an external clock, the regulator output can be used as the V_{CC} input terminal to power down the internal time base and reduce power dissipation. When supply voltages less than 4.5 volts are used with the internal time base, pin 15 should be shorted to pin 16.

TYPICAL CHARACTERISTICS

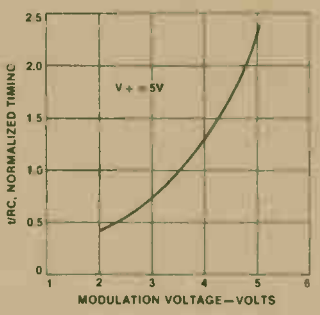


Figure 4—
Normalized Time-Base Period
Modulation Input Voltage

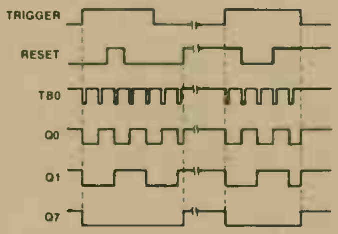


Figure 5—Timing Diagram of Output Waveforms

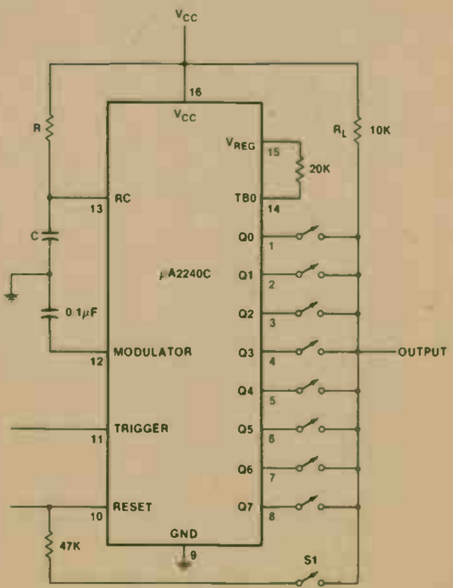


Figure 6—Basic Connections for Timing Applications

TIMER

555
276-1723

GENERAL DESCRIPTION

The 555 is a highly stable device for generating accurate time delays or oscillation. Additional terminals are provided for triggering or resetting if desired. In the time delay mode of operation, the time is precisely controlled by one external resistor and capacitor. For astable operation as an oscillator, the free running frequency and duty cycle are accurately controlled with two external resistors and one capacitor. The circuit may be triggered and reset on falling waveforms, and the output circuit can source or sink up to 200 mA or drive TTL circuits.

FEATURES

- Timing from microseconds through hours
- Operates in both astable and monostable modes
- Adjustable duty cycle
- Output can source or sink 200 mA
- Output and supply TTL compatible
- Temperature stability better than 0.005% per °C
- Normally on and normally off output

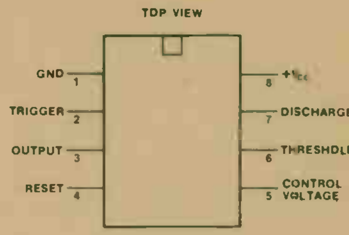
APPLICATIONS

- Precision timing
- Pulse generation
- Sequential timing
- Time delay generation
- Pulse width modulation
- Pulse position modulation
- Linear ramp generator

ABSOLUTE MAXIMUM RATINGS

Supply Voltage	+16V
Power Dissipation	600 mW
Operating Temperature Range	0 to +70°C
Storage Temperature Range	−65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

PIN CONNECTION

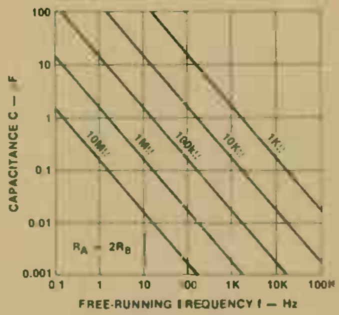


TRUTH TABLE

PIN 2 TRIGGER	PIN 6 THRESHOLD	PIN 4 RESET	PIN 3 OUTPUT
H	X	H	L
L	X	H	H
H	L	H	L
X	X	L	L

X = Don't Care L = Low Level H = High Level

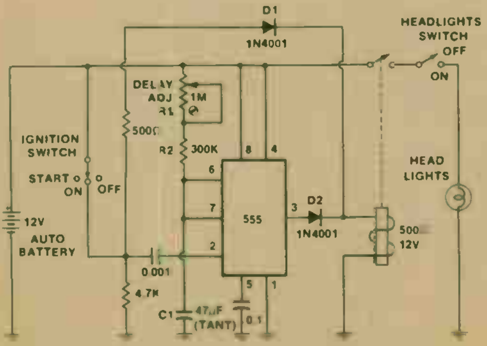
TYPICAL CHARACTERISTICS



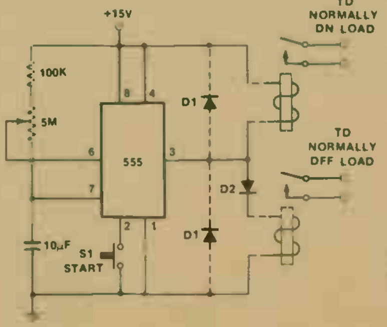
Capacitance vs Free-Running Frequency

The charge time (output high) is given by $t_1 = 0.693\,(R_A + R_B)\,C$
The discharge time (output low) is given by $t_2 = 0.693\,(R_B)\,C$
Thus the total period is $T = t_1 + t_2 = 0.693\,(R_A + 2R_B)\,C$
The frequency of oscillation is $f = 1/T = 1.44 / (R_A + 2R_B)\,C$

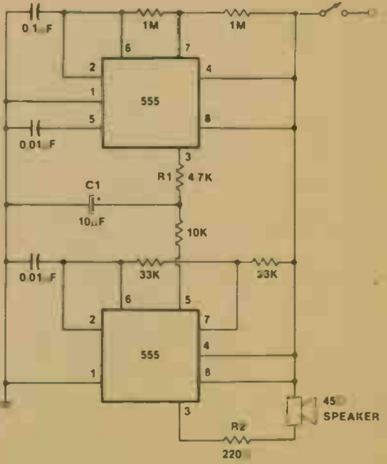
TYPICAL APPLICATIONS



Automatic Headlight Turn-Off Circuit



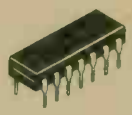
Relay Timer



Warble Alarm Circuit

556
276-1728

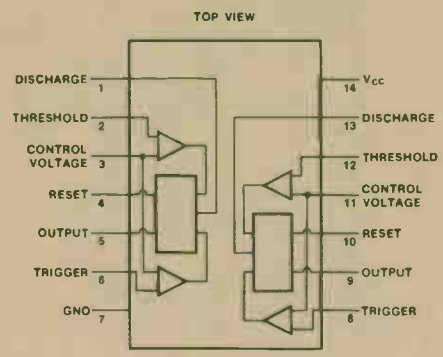
DUAL TIMER



GENERAL DESCRIPTION

The 556 dual timing circuit is a highly stable controller capable of producing accurate time delays or oscillation. The 556 is a dual 555. Timing is provided by an external resistor and capacitor for each timing function. The two timers operate independently of each other sharing only V_{CC} and ground. The circuits may be triggered and reset on falling waveforms. The output structures may sink or source 200 mA.

PIN CONNECTION



FEATURES

- Timing from microseconds through hours
- Operates in both astable and monostable modes
- Replaces two 555 timers
- Adjustable duty cycle
- Output can source or sink 200 mA
- Output and supply TTL compatible
- Temperature stability better than 0.005% per °C
- Normally on and normally off output

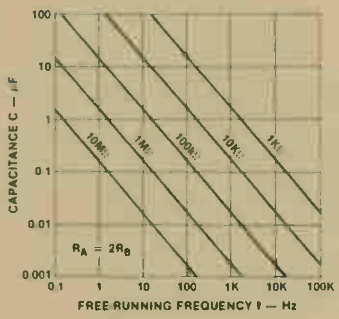
APPLICATIONS

- Precision timing
- Pulse generation
- Sequential timing
- Time delay generation
- Pulse width modulation
- Pulse position modulation
- Linear ramp generator

ABSOLUTE MAXIMUM RATINGS

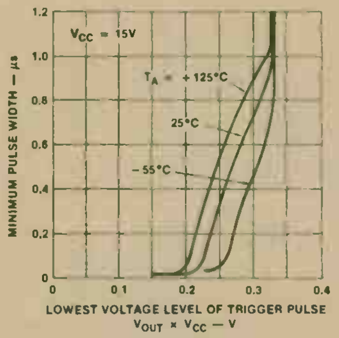
Supply Voltage	+16V
Power Dissipation	600 mW
Operating Temperature Range	0 to +70°C
Storage Temperature Range	−65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

TYPICAL CHARACTERISTICS

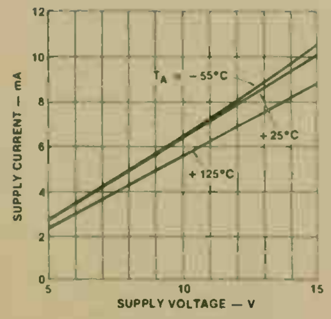


Capacitance vs
Free-Running Frequency

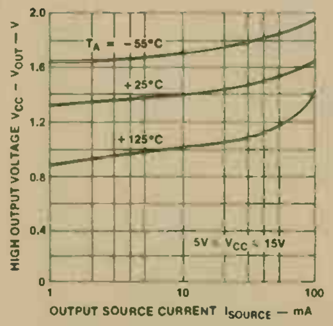
The charge time (output high) is given by
$t_1 = 0.693\,(R_A + R_B)\,C$
The discharge time (output low) is given by
$t_2 = 0.693\,(R_B)\,C$
Thus the total period is
$T = t_1 + t_2 = 0.693\,(R_A + 2R_B)\,C$
The frequency of oscillation is
$f = 1/T = 1.44\ /\,(R_A + 2R_B)\,C$



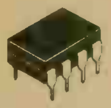
Minimum Pulse Width vs
Lowest Voltage Level of Trigger Pulse



Supply Current
vs Supply Voltage



High Output Voltage vs
Output Source Current



LOW POWER GENERAL PURPOSE TIMER

7555
276-1743

GENERAL DESCRIPTION

The 7555 is a CMOS RC timer providing significantly improved performance over standard timers. Improved parameters include the low supply current, wide operating supply voltage range, low THRESHOLD, TRIGGER and RESET currents, no crowbarring of the supply current during any output transition, higher frequency performance and no requirement to decouple CONTROL VOLTAGE for stable operation.

Specifically, the 7555 is a stable controller capable of producing accurate time delays or frequency. In the time delay one shot mode of operation for each circuit, the time is precisely controlled by one external resistor and capacitor. For astable operation as an oscillator, the free running frequency and the duty cycle are both accurately controlled by two external resistors and one capacitor.

The circuits are triggered and reset on falling (negative) waveforms, and the output inverter can source or sink large currents to drive TTL loads or provide minimal offsets to drive CMOS loads.

FEATURES

- Low Supply Current—80μA typical
- Extremely low trigger, threshold and reset currents—20pA typical
- High speed operation—500 kHz guaranteed
- Wide operation supply voltage range guaranteed 2 to 18 volts
- Well behaved reset function— no crowbarring of supply during output transition.
- Can be used with higher impedance timing elements than regular 555 for longer RC time constants.
- Timing from microseconds through hours
- Operates in both astable and monostable modes
- Adjustable duty cycle
- High output source/sink driver-can drive TTL/CMOS
- Typical temperature stability of 0.005% per °C at 25°C
- Normally on and normally off output with very low offsets
- Completely static protected—no special handling considerations.

APPLICATIONS

- Precision timing
- Pulse generation
- Sequential timing
- Time delay generation
- Pulse width modulation
- Pulse position modulation
- Missing pulse detector

ABSOLUTE MAXIMUM RATINGS

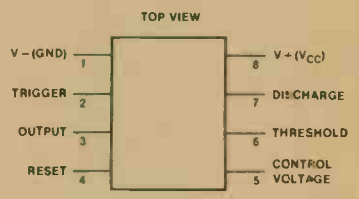
Supply Voltage, $V^+ - V^-$	+18V
Input Voltage, Trigger, Threshold, Reset, Control Voltage (see note)	$\leq V^+ + 0.3V$ to $\geq V^- - 0.3V$
Output Current	100 mA
Power Dissipation	200 mW
Operating Temperature Range	−20 to +70°C
Storage Temperature Range	−65 to +150°C
Lead Temperature (Soldering, 60 Seconds)	+300°C

Note: Due to the SCR structure inherent in the CMOS process used to fabricate these devices, connecting any terminal to a voltage greater than $V^+ + 0.3V$ or less than $V^- - 0.3V$ may cause destructive latchup. For this reason it is recommended that no inputs from external sources not operating from the same power supply be applied to the device before its power supply is established. In multiple systems, the supply of the 7555 must be turned on first.

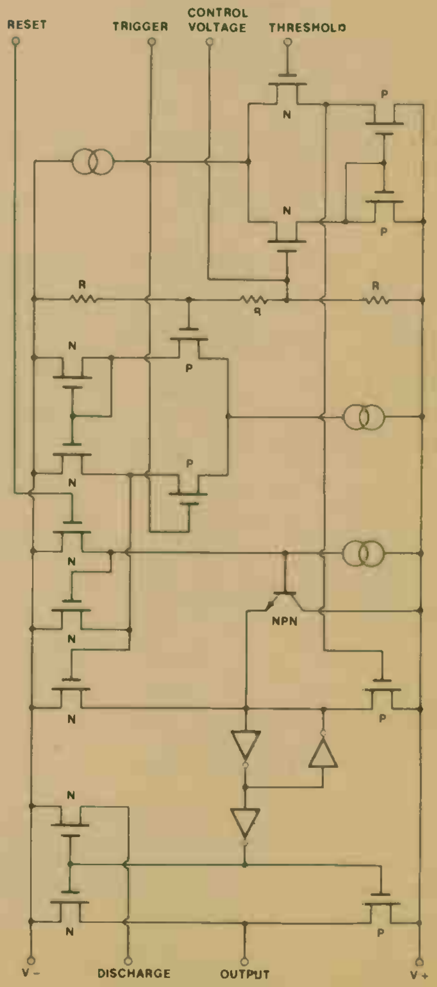
TRUTH TABLE

THRESHOLD VOLTAGE	TRIGGER VOLTAGE	RESET	OUTPUT	DISCHARGE SWITCH
DON'T CARE	DON'T CARE	LOW	LOW	ON
$>2/3(V^+ - V^-)$	$>2/3(V^+ - V^-)$	HIGH	LOW	ON
$1/3<V_{TH}<2/3$	$1/3<V_{TH}<2/3$	HIGH	?	?
$<1/3(V^+ - V^-)$	$<1/3(V^+ - V^-)$	HIGH	HIGH	OFF

PIN CONNECTION

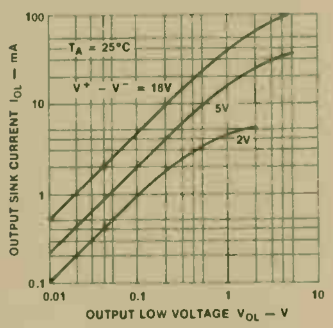


INTERNAL CIRCUIT

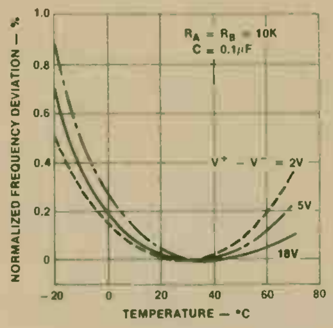


7555 276-1743

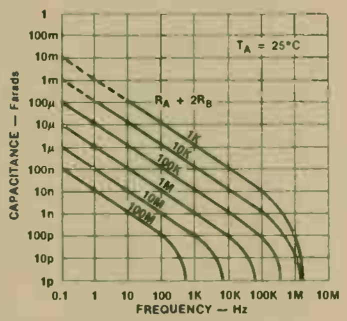
TYPICAL CHARACTERISTICS



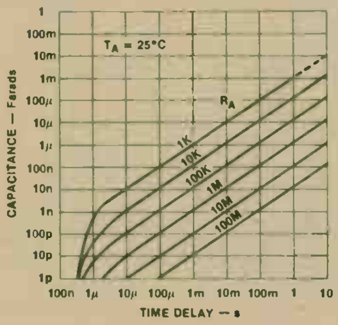
Output Sink Current
vs Output Low Voltage



Normalized Frequency Deviation
vs Temperature



Capacitance vs
Free-Running Frequency



Capacitance vs
Time Delay

TYPICAL APPLICATIONS

Astable Operation (Figure 1)

The circuit can be connected to trigger itself and free run as a multivibrator. The external capacitor charges through R_A and R_B and discharges through R_B only. Thus the duty cycle may be precisely set by the ratio of these two resistors. In this mode of operation, the capacitor charges and discharges between 1/3 and 2/3 $(V^+ - V^-)$. As in the triggered mode, the charge and discharge times, and therefore the frequency, are essentially independent of the supply voltage.

The frequency of oscillation is given by: $f = \frac{1}{t} = \frac{1.46}{(R_A + 2\ R_B)\ C}$

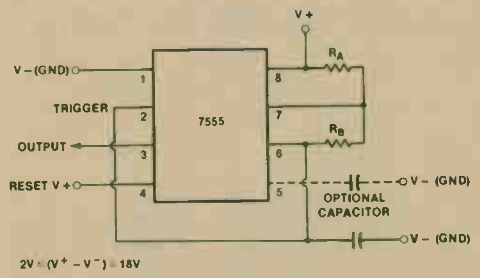


Figure 1—Astable Operation

Monostable Operation (Figure 2)

In this mode of operation, the timer functions as a one-shot. Initially the external capacitor (C) is held discharged by a transistor inside the timer. Upon application of a negative trigger pulse to pin 2, the flip flop is set which releases the short curcuit across the external capacitor and drives the output high. The voltage across the capacitor now increases exponentially with a time constant $\gamma = R_A C$. When the voltage across the capacitor equals 2/3 $(V^+ - V^-)$, the comparator resets the flip flop, which in turn discharges the capacitor rapidly and also drives the output to its low state.

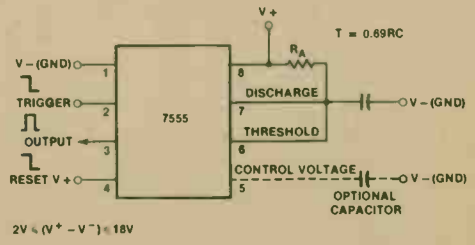
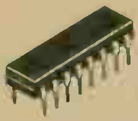


Figure 2—Monostable Operation



PROGRAMMABLE ANALOG COMPANDOR

NE572
276-1781

GENERAL DESCRIPTION

The NE572 is a dual channel, high performance gain control circuit in which either channel may be used for dynamic range compression or expansion. Each channel has a full wave rectifier to detect the average value of input signal; a linearized, temperature compensated variable gain cell (ΔG) and a dynamic time constant buffer. The buffer permits independent control of dynamic attack and recovery time with minimum external components and improved low frequency gain control ripple distortion over previous compandors.

FEATURES

- Independent control of attack and recovery time.
- Improved low frequency gain control ripple
- Complementary gain compression and expansion with external Op Amp
- Wide dynamic range — greater than 110 dB
- Temperature compensated gain control
- Low distortion gain cell
- Low noise — 6μV typical
- Wide supply voltage range — 6 to 22 V
- System level adjustable with external components.

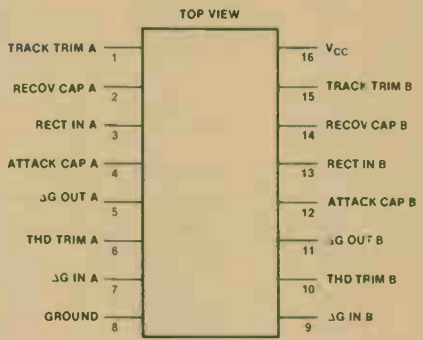
APPLICATIONS

- Dynamic noise reduction system
- Voltage control amplifier
- Stereo expandor
- Automatic level control
- High level limiter
- Low level noise gate
- State variable filter

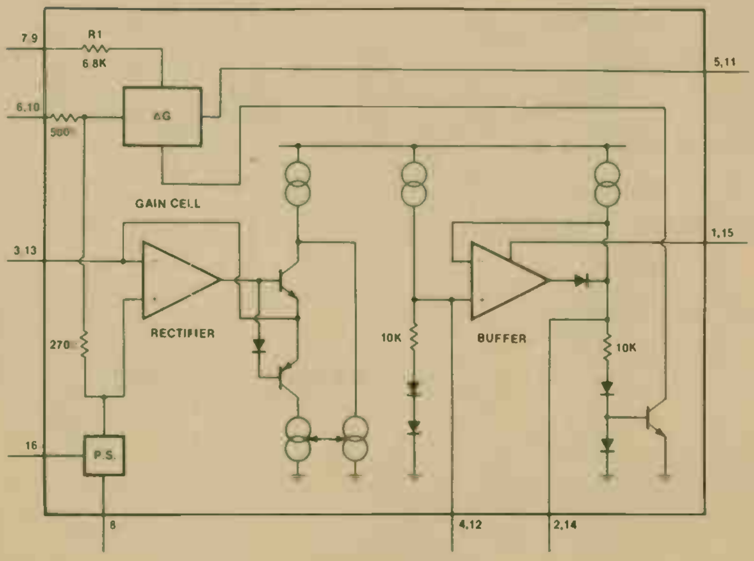
ABSOLUTE MAXIMUM RATINGS

Supply voltage	22 V
Operating temperature range	0 to 70°C
Power dissipation	500 mW

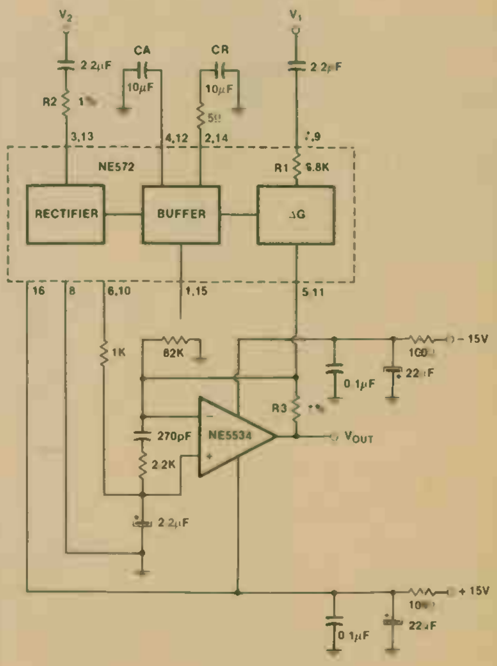
PIN CONNECTION



BLOCK DIAGRAM



TEST CIRCUIT



Test Circuit

NE572 276-1781

TYPICAL APPLICATIONS

Basic Expandor

Figure 1 shows an application of the circuit as a simple expandor. The gain expression of the system is given by

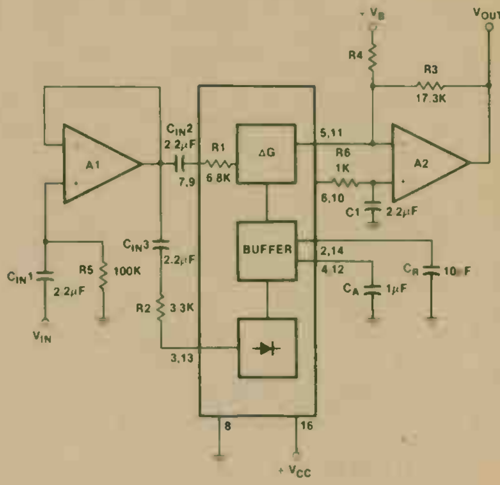
$$\frac{V_{OUT}}{V_{IN}} = \frac{2}{I_1} \times \frac{R3 \times V_{IN}\,(AVG)}{R2 \times R1} \quad - (1)$$

Both the Resistor R1 and R2 are tied to internal summing nodes. R1 is a 6.8 K internal resistor. The maximum input current into the gain cell can be as large as 140 μA. This corresponds to a voltage level of 140 μA × 6.8 K = 952 mV peak. The input peak current into the rectifier is limited to 300 μA by the internal bias system. Note that the value of R1 can be increased to accommodate higher input level. R2 and R3 are external resistors. It is easy to adjust the ratio of R3/R2 for desirable system voltage and current levels. A small R2 results in higher gain control current and smaller static and dynamic tracking error. However, an impedance buffer A1 may be necessary if the input is voltage drive with large source impedance.

The gain cell output current feeds the summing node of the external OPA A2. R3 and A2 convert the gain cell output current to the output voltage. In high performance applications, A2 has to be low noise, high speed and wide band so that the high performance output of the gain cell will not be degraded. The non-inverting input of A2 can be biased at the low noise internal reference pin 6 or 10. Resistor R4 is used to biased up the output DC level of A2 for maximum swing. The output DC level of A2 is given by

$$V_{ODC} = V_{REF}\left(1 + \frac{R3}{R4}\right) - V_B\left(\frac{R3}{R4}\right) \quad - (2)$$

V_B can be tied to a regulated power supply for a dual supply system and be grounded for a single supply system. CA sets the attack time constant and CR sets the recovery time constant.



Basic Expandor (Figure 1)

Basic Compressor

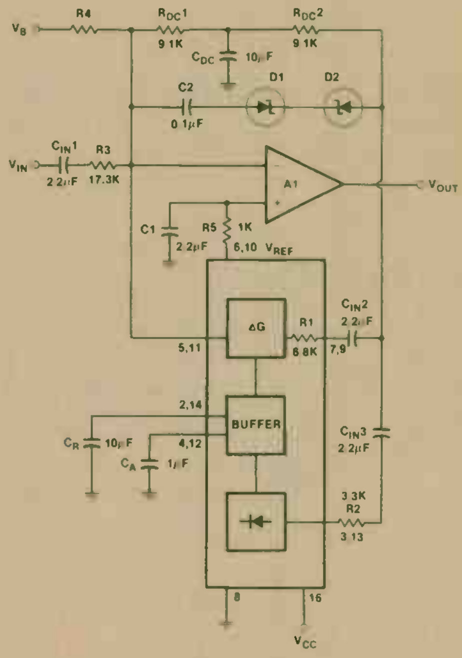
Figure 2 shows the hook-up of the circuit as a compressor. The IC is put in the feedback loop of the OPA A1. The system gain expression is as follows:

$$\frac{V_{OUT}}{V_{IN}} = \frac{I_1}{2} \times \frac{R2 \times R1}{R3 \times V_{OUT}\,(AVG)} \quad - (1)$$

R_{DC1}, R_{DC2}, and C_{DC} form a dc feedback for A1. The output DC level of A1 is given by

$$C_{DC} = V_{REF}\left(1 + \frac{R_{DC1} + R_{DC2}}{R4}\right) - V_B\left(\frac{R_{DC1} + R_{DC2}}{R4}\right) \quad - (2)$$

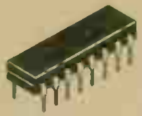
The zener diodes D1 and D2 are used for channel overload protection.



Basic Compressor (Figure 2)

Basic Compandor System

The above basic compressor and expandor can be applied to systems such as tape disc noise reduction, digital audio, bucket brigade delay lines. Additional system design techniques such as bandlimiting, band splitting, pre-emphasis, de-emphasis and equalization are easy to incorporate. The IC is a versatile functional block to achieve a high performance audio system.



COMPLEX SOUND GENERATOR

SN94281
276-1767

GENERAL DESCRIPTION

The SN94281 complex sound generator is a monolithic chip combining both analog (bipolar) and digital (I2L) circuitry. It includes a noise generator, a voltage-controlled oscillator (VCO), and a super-low-frequency oscillator (SLF) together with a noise filter, mixer, audio amplifier, and control circuitry to provide noise, tone, or low-frequency sounds and any combinations of these. Programming is accomplished via control inputs and user-defined external components, which allows a wide variety of sound to be created and tailored for particular applications. This device may be used in a variety of applications requiring audio feedback to the operator including entertainment equipment such as arcade or home video games, pinball games, toys; consumer-oriented equipment such as timers, alarms, and controls.

FEATURES

- Generates noise, tone, or low frequency based sounds, or combinations of these
- Sounds are defined by user via external components
- Allows custom sounds to be created easily
- Low power requirements
- Allows multiple sound system
- Compatible with microprocessor systems
- On board 125 MW audio amplifier

APPLICATIONS

- Home video games
- Pinball games
- Timers
- Alarms
- Toys

ABSOLUTE MAXIMUM RATINGS

Supply Voltage, V_{CC}	12 V
Input Voltage: Logic Input	12 V
Capacitor Input	5 V
Resistor Input	5 V
Operating Ambient Temperature Range	0 to +70°C
Storage Temperature Range	−65 to +150°C

OPERATION

Super Low Frequency Oscillator (SLF)

The SLF is normally operated in the range of 0.1 to 30 hertz, but will operate up to 20 kHz. The frequency is determined by two external components, the SLF control resistor (R_{SLF}) at pin 11 at ground and the SLF control capacitor (C_{SLF}) at pin 12 at ground according to the following equation:

Equation 1: SLF Frequency (Hz) $\cong 0.66 / (9K\Omega + R_{SLF}) \times C_{SLF}$ at $V_{REG} = 5V$

The SLF supplies two signals to other parts of the device. It feeds a 50% duty cycle square wave to the mixer, and it feeds a triangular wave to the external VCO of SLF select logic, where, if VCO select (pin 13) is at a low logic level, it is fed through to the VCO to modulate the frequency of that oscillator.

Voltage Controlled Oscillator (VCO)

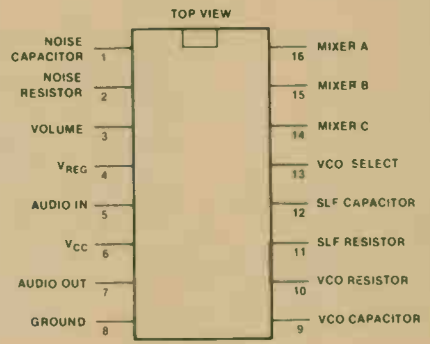
The VCO produces a tone output whose frequency is dependent upon the voltage at the input of the VCO. This controlling voltage may be either the SLF output described above, an internal voltage producing a constant tone, or externally by placing a voltage on the SLF capacitor pin. The higher the voltage applied to the VCO, the lower the frequency of the VCO output.

The first mode, VCO controlled by SLF is selected by placing the VCO select pin low and supplying both the VCO capacitor (CVCO) at pin 9 at ground and the VCO resistor (R_{VCO}) at pin 10 at ground. Minimum frequency of the VCO is determined by the following equation:

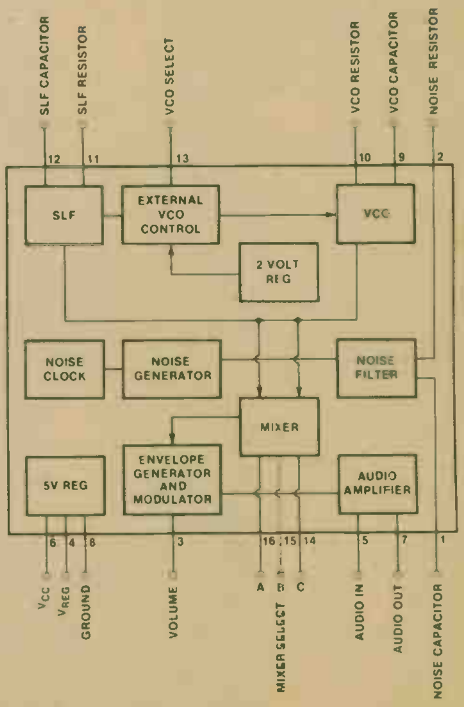
Equation 2: Minimum VCO Frequency (Hz) $\cong 0.60 / (9K\Omega + R_{VCO}) \times C_{VCO}$

The frequency range of the VCO is internally determined at an approximate ratio of 10:1, so that maximum frequency of the VCO will be approximately ten

PIN CONNECTION



BLOCK DIAGRAM



SN94281 276-1767

OPERATION (Cont'd)

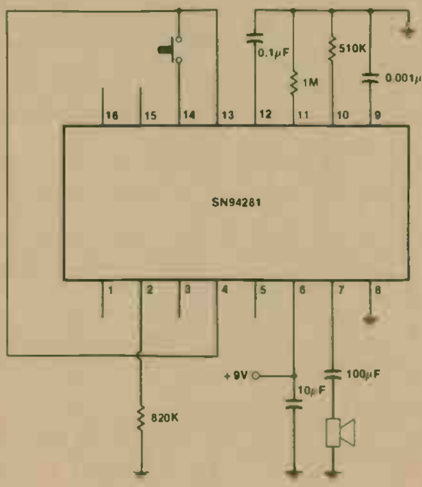
times the minimum frequency determined by the external components R_{VCO} and C_{VCO}.

The second method of supplying a control voltage for the VCO is to use an internal voltage preset at 1 volt. This mode is selected by taking VCO select to a high level. In this mode, the VCO puts out a constant tone determined by C_{VCO} and R_{VCO} in this relationship:

Equation 3: $f_{VCO} \cong 1.45 / (R_{VCO} + 9K\Omega) \times C_{VCO} \times 0.9V$ Hz

A third method of controlling the voltage to the VCO is to apply the controlling voltage (V_{EXT}) to the SLF capacitor pin. This voltage level (0 to 2.30 volts) will determine the output frequency of the VCO. Output frequency in this mode is determined by this relationship:

Equation 4: $f_{VCO} \cong 1.45 / (R_{VCO} + 9K\Omega) \times C_{VCO} \times (V_{EXT} - 0.1V)$ Hz



Train with Whistle

Mixer

To obtain two sounds occurring simultaneously (e.g., car engine and siren or steam engine and whistle), multiplexing is required. The multiplexing is accomplished by switching the mixer select lines at a sufficiently rapid rate that the two sounds seem to occur at the same time. The frequency of the multiplexing should be above the human hearing range. A multiplexing drive signal with a 50% duty cycle is required to provide equal amplitudes for both sound functions.

Volume

Output volume from the 94281 can be controlled by varying a voltage level on pin 3. This voltage level should range from 3.5 volts, for maximum volume, to 0.4 volts or below for no output. Under no circumstances should this pin be taken above 5 volts or below 0 volts. Voltages outside of this range could damage the unit.

Noise Generator/Filter

The noise generator produces psuedo-random white noise that passes through the noise filter before being applied to the mixer. The variable-bandwidth low-pass filter has its cutoff point defined by the noise filter control resistor (R_{NF}) at pin 2 and the noise filter control capacitor (C_{NF}) at pin 1 according to the following equation:

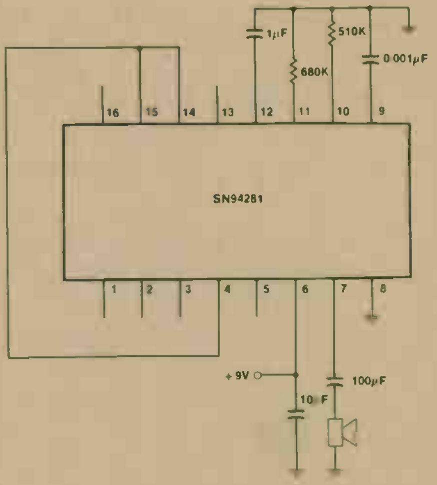
Equation 5: f_{CUTOFF} (Hz) $\cong 0.43 / (9K\Omega + R_{NF}) \times C_{NF}$

Output Amplifier

The output amplifier is contained entirely on chip. The amplifier operates in a transimpedance mode and has a push-pull output capable of delivering 125 mA into a capacitively coupled 8 ohm load. This produces a two volt peak-to-peak output signal. The amplifier input (pin 5) can be used to sum several external current signals. If the signals are composed of a varying voltage they must first be converted to current signals. This can be accomplished by using a resistor in series between the external source and the input (pin 5). The relationship of this resistor value (R_{SERIES}) to the external signal voltage (V_{MAX}) is given by the following equation:

$$-100\ \mu A < V_{MAX} - 3V / R_{SERIES} < 100\ \mu A$$

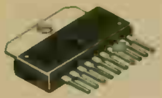
Gain of the amplifier can be controlled by adding a resistor in parallel to the internal 10 KΩ feedback resistor. This will decrease gain and allow a larger input current.



Bird Sound

Regulator

The circuit will operate from a single supply (pin 6). An internal 5 volt regulator allows the use of a 7.5 volt to 10.5 volt unregulated supply applied to V_{CC} (pin 6) and in addition to supplying power for the chip, the internal regulator will provide a 5 volt regulated supply of up to 5 mA from V_{REG} (pin 4) for use outside the integrated circuit.



5.8W AUDIO POWER AMPLIFIER

TA7205AP
276-705

GENERAL DESCRIPTION

The TA7205AP is a monolithic audio power amplifier with a built in thermal shut-down circuit designed for car radio and stereo applications.

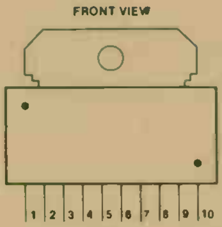
FEATURES

- Low distortion
  THD=0.15% (Typ.) (@ P_{OUT}=1W. G_V=55dB)
  THD=0.07% (Typ.) (@ P_{OUT}=1W. G_V=44dB)
- Operating supply voltage range: V_{CC}=9~18V
- 'PCT' process to insure low noise characteristic
- Current limiting for short-circuit protection
- Built in thermal shut-down circuit
- Built in surge voltage protection circuit

ABSOLUTE MAXIMUM RATINGS

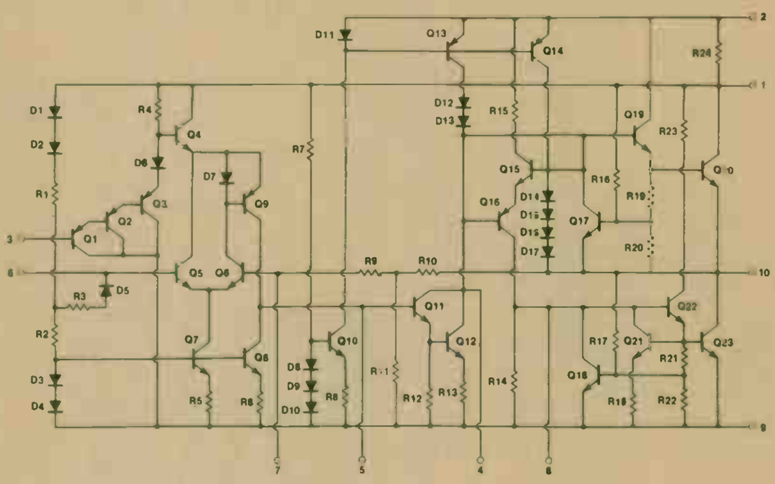
Operating Supply Voltage (V_{CC})	18V
Quiescent Supply Voltage (V_{CCQ})	25V
Output Peak Current (I_O)	4.5A
Quiescent Current (I_{CCQ})	80mA
Operating Temperature	−20 to +75°C
Storage Temperature	−55 to +150°C

PIN CONNECTION

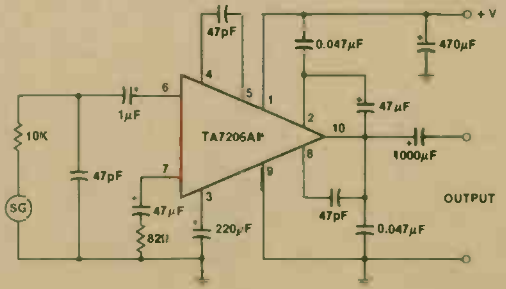


PIN	FUNCTION
1	V+
2	BOOTSTRAP
3	DECOUPLING
4	PHASE COMPENSATION
5	PHASE COMPENSATION
6	INPUT
7	NEGATIVE FEEDBACK
8	PHASE COMPENSATION
9	GROUND
10	OUTPUT

INTERNAL CIRCUIT

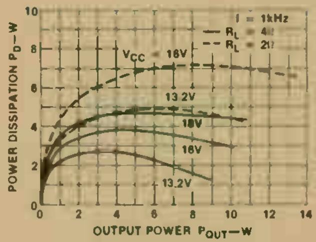


TYPICAL APPLICATION

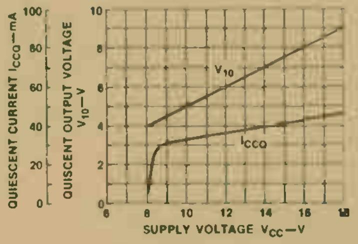


5 Watt Audio Amplifier

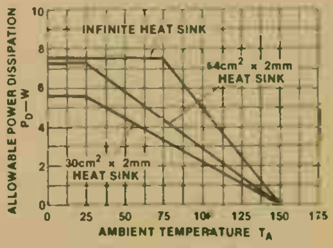
TYPICAL CHARACTERISTICS



Power Dissipation
vs Output Power



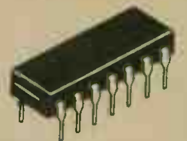
Quiescent Current and
Output Voltage vs
Supply Voltage



Allowable Power Dissipation
vs Ambient Temperature

380
276-706

AUDIO POWER AMPLIFIER

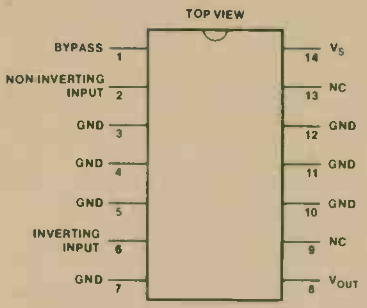


GENERAL DESCRIPTION

The 380 is a power audio amplifier for consumer application. In order to hold system cost to a minimum, gain is internally fixed at 34 dB. A unique input stage allows inputs to be ground referenced. The output is automatically self centering to one half the supply voltage.

The output is short circuit proof with internal thermal limiting. The package outline is standard dual-in-line. A copper lead frame is used with the center three pins on either side comprising a heat sink. This makes the device easy to use in standard p-c layout.

PIN CONNECTION



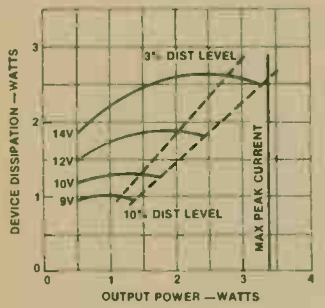
FEATURES

- Wide supply voltage range
- Low quiescent power drain
- High peak current capability
- Input referenced to GND
- High input impedance
- Low distortion
- Quiescent output voltage is at one-half of the supply voltage

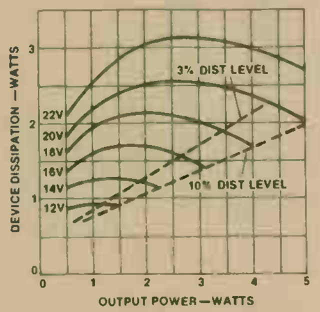
ABSOLUTE MAXIMUM RATINGS

Supply Voltage	22 V
Peak Current	1.3 A
Package Dissipation 14-Pin DIP	10 W
Input Voltage	±0.5 V
Storage Temperature	−65 to +150°C
Operating Temperature	0 to +70°C
Junction Temperature	+150°C
Lead Temperature (Soldering, 10 sec)	+300°

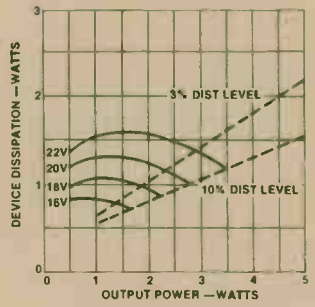
TYPICAL CHARACTERISTICS



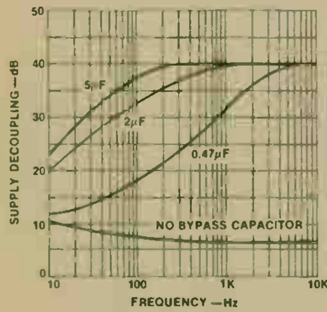
Device Dissipation vs Output Power — 4Ω Load



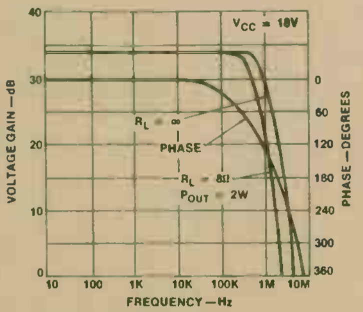
Device Dissipation vs Output Power — 8Ω Load



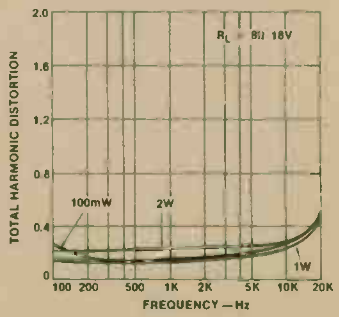
Device Dissipation vs Output Power — 16Ω Load



Supply Decoupling vs Frequency

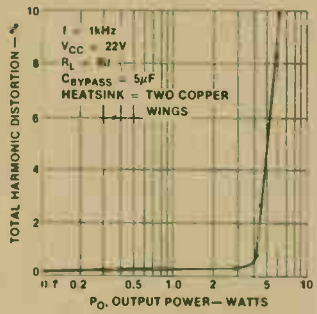


Output Voltage Gain and Phase vs Frequency

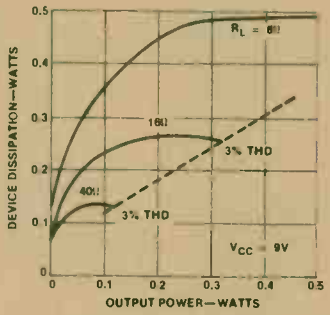


Total Harmonic Distortion vs Frequency

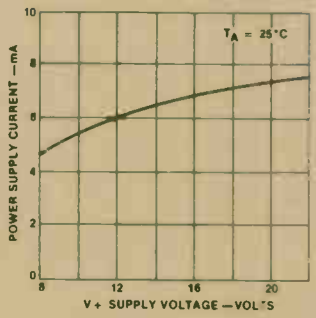
TYPICAL CHARACTERISTICS (Cont'd)



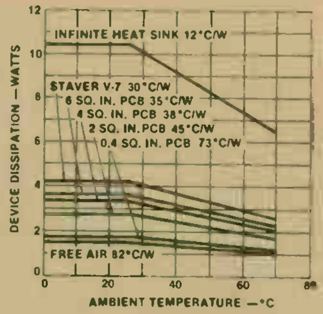
Total Harmonic Distortion
vs Output Power



Device Dissipation
vs Output Power

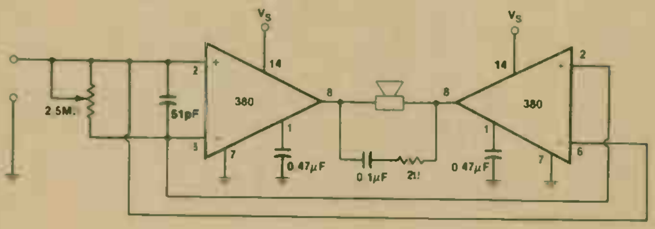


Power Supply Current
vs Supply Voltage

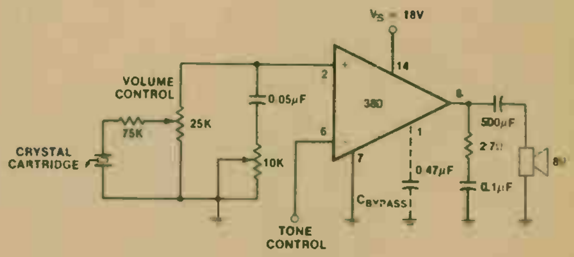


Device Dissipation vs
Ambient Temperature

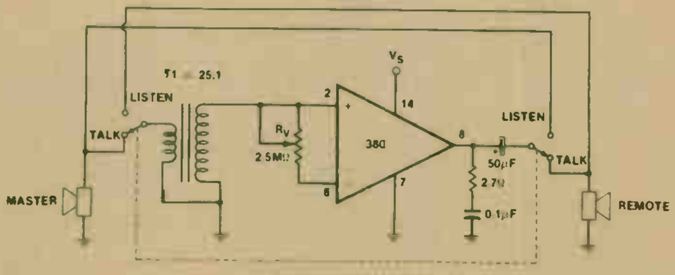
TYPICAL APPLICATIONS



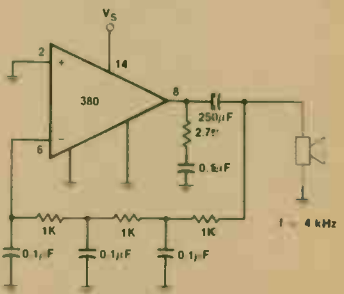
Bridge Amplifier



Phono Amplifier



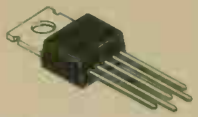
Intercom



Phase Shift Oscillator

383
276-703

8 WATT AUDIO POWER AMPLIFIER



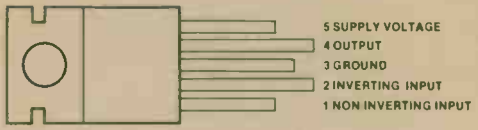
GENERAL DESCRIPTION

The 383 is a cost effective, high power amplifier suited for automotive applications. High current capability (3.5A) enables the device to drive low impedance loads with low distortion. The 383 is current limited and thermally protected. The 383 comes in a 5-pin TO-220 package.

FEATURES

- High peak current capability (3.5A)
- Large output voltage swing
- Externally programmable gain
- Wide supply voltage range (5V – 20V)
- Few external parts required
- Pin for pin compatible with TDA2002
- Low distortion
- High input impedance
- No turn-on transients
- Low noise
- Short circuit protected

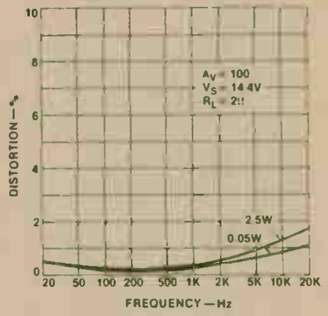
PIN CONNECTION



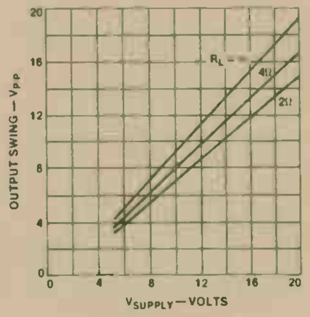
ABSOLUTE MAXIMUM RATINGS

Peak Supply Voltage (50 ms)	25V
Operating Supply Voltage	20V
Output Current	
Repetitive	3.5A
Non-repetitive	4.5A
Input Voltage	±0.5V
Power Dissipation	15W
Operating Temperature	0 to +70°C
Storage Temperature	−60 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

TYPICAL CHARACTERISTICS

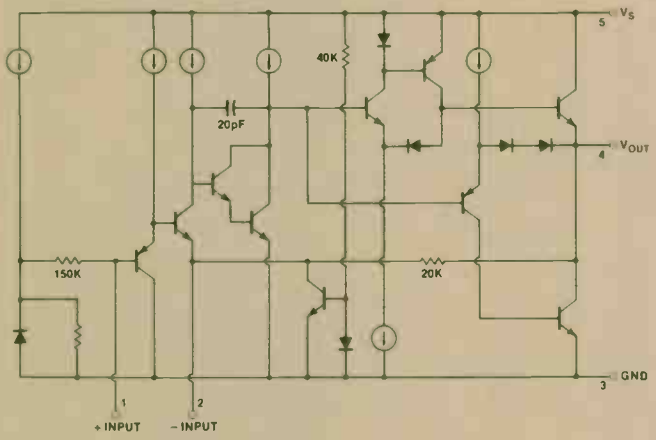


Distortion vs
Frequency

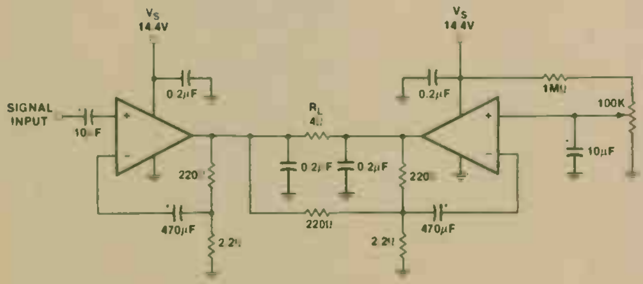


Output Swing vs
Supply Voltage

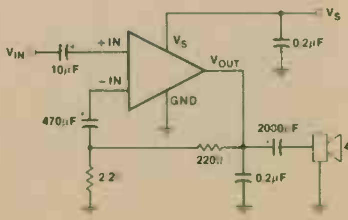
INTERNAL CIRCUIT



TYPICAL APPLICATIONS



16W Bridge Amplifier



Basic Audio Amp

LOW VOLTAGE AUDIO POWER AMPLIFIER

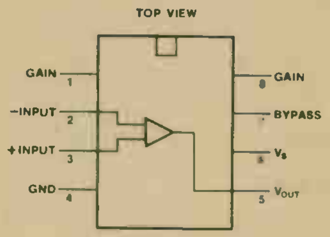
386
276-1731

GENERAL DESCRIPTION

The 386 is a power amplifier designed for use in low voltage consumer applications. The gain is internally set to 20 to keep external part count low, but the addition of an external resistor and capacitor between pins 1 and 8 will increase the gain to any value up to 200.

The inputs are ground referenced while the output is automatically biased to one half the supply voltage. The quiescent power drain is only 18 milli-watts when operating from a 6 volt supply, making the 386 ideal for battery operation.

PIN CONNECTION



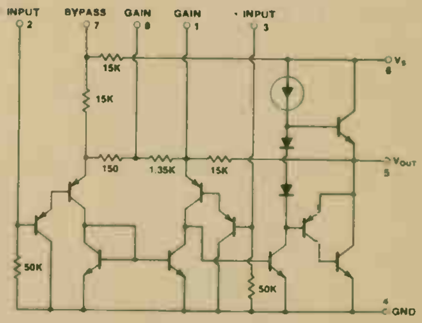
FEATURES

- Battery operation
- Minimum external parts
- Wide supply voltage range 4-12 volts
- Low quiescent current drain 3 mA
- Voltage gains from 20 to 200
- Ground referenced input
- Self-centering output quiescent voltage
- Low distortion
- Eight pin dual-in-line package

APPLICATIONS

- AM-FM radio amplifiers
- Portable tape player amplifiers
- Intercoms
- TV sound systems
- Line drivers
- Ultrasonic drivers
- Small servo drivers
- Power converters

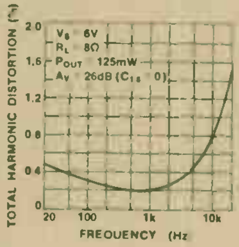
INTERNAL CIRCUIT



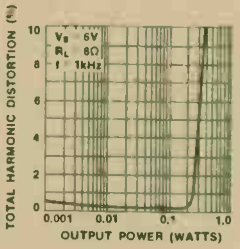
ABSOLUTE MAXIMUM RATINGS

Supply Voltage	15V
Package Dissipation 8 Pin DIP	660 mW
Input Voltage	±0.4V
Junction Temperature	+150°C
Operating Temperature	0 to +70°C
Storage Temperature	−65 to +150°C
Lead Temperature (Soldering, 10 seconds)	+300°C

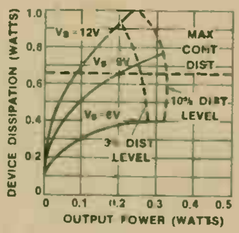
TYPICAL CHARACTERISTICS



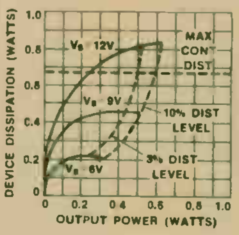
Distortion vs Frequency



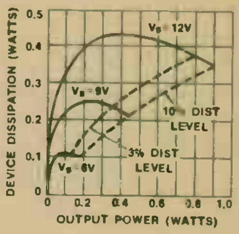
Distortion vs Output Power



Device Dissipation vs Output Power—4Ω Load

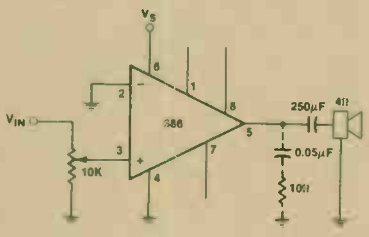


Device Dissipation vs Output Power—8Ω Load

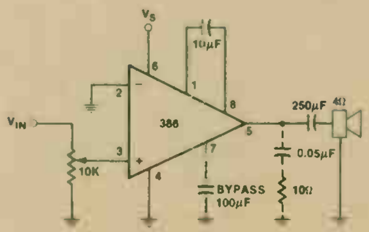


Device Dissipation vs Output Power—16Ω Load

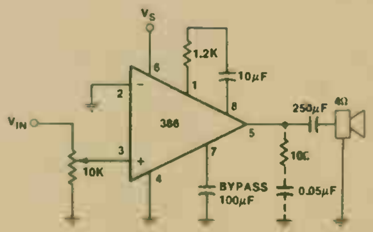
TYPICAL APPLICATIONS



Amplifier with Gain = 20
(Minimum Parts)



Amplifier with Gain = 50

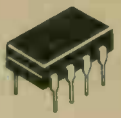


Amplifier with Gain = 200

387

276-1737

LOW NOISE DUAL PREAMPLIFIER



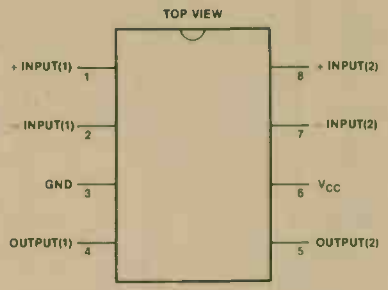
GENERAL DESCRIPTION

The 387 is a dual preamplifier for the amplification of low level signals in applications requiring optimum noise performance. Each of the two amplifiers is completely independent, with an internal power supply decoupler-regulator, providing 110 dB supply rejection and 60 dB channel separation. Other outstanding features include high gain (104 dB), large output voltage swing ($V_{CC} - 2$ V) $_{P\text{-}P}$, and wide power band width (75 kHz, 20 $V_{P\text{-}P}$). The 387 operates from a single supply across the wide range of 9 to 30 V.

FEATURES

- Low noise — 0.8 µV total input noise
- High gain — 104 dB open loop
- Wide supply range — 9 to 30 V
- Power supply rejection — 110 dB
- Large output voltage swing ($V_{CC} - 2$ V) $_{P\text{-}P}$
- Wide band width 15 MHz unity gain
- Power band width 75 kHz, 20 $V_{P\text{-}P}$
- Internally compensated
- Short circuit protected

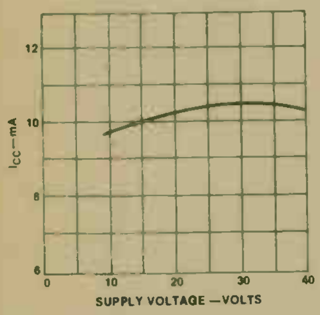
PIN CONNECTION



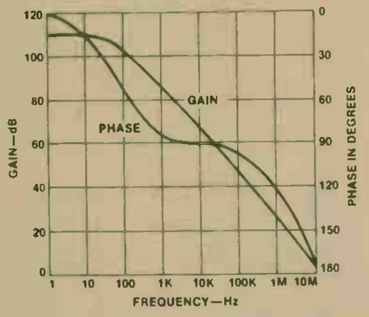
ABSOLUTE MAXIMUM RATINGS

Supply Voltage	+ 30 V
Operating Temperature Range	0 to + 70°C
Storage Temperature Range	– 65 to + 150°C
Lead Temperature (Soldering, 10 seconds)	300°C

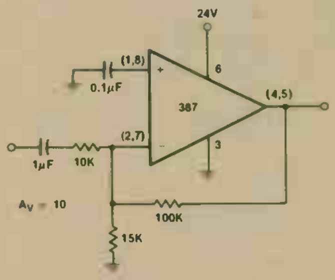
TYPICAL CHARACTERISTICS



Supply Current vs Supply Voltage

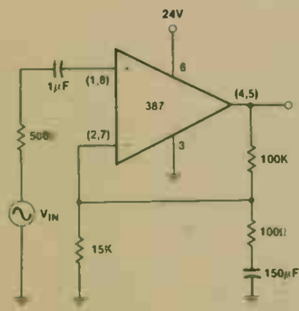


Gain and Phase Response vs Frequency

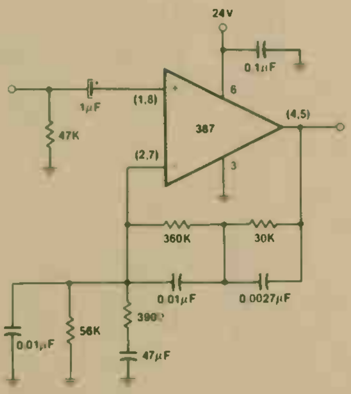


Ultra-Low Distortion Inverting Amplifier

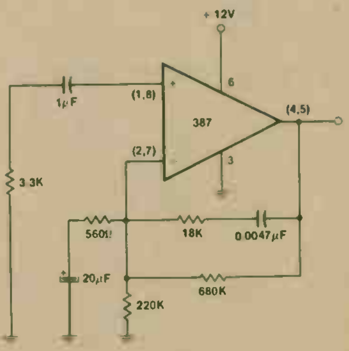
TYPICAL APPLICATIONS



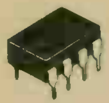
Flat Gain Circuit
(A_V = 1000)



Magnetic Phono Preamplifier



NAB Tape Circuit



LOW-LEVEL VIDEO DETECTOR

MC1330
276-1757

GENERAL DESCRIPTION

This is an integrated circuit featuring very linear video characteristics and wide bandwidth. Designed for color and monochrome television receivers, replacing the third IF, detector, video buffer and AFC buffer.

The MC1330A video detector is a fully balanced multiplier detector circuit that has linear amplitude and phase characteristics. The signal is divided into two channels, one a linear amplifier and the other a limiting amplifier that provides the switching carrier for the detector.

The switching carrier has a buffered output for use in providing the AFT function.

The video amplifier output is an improved design that reduces the differential gain and phase distortion associated with previous video output systems. The output is wide band, >8.0 MHz, with normal negative polarity. A separate narrow bandwidth, positive video output is also provided.

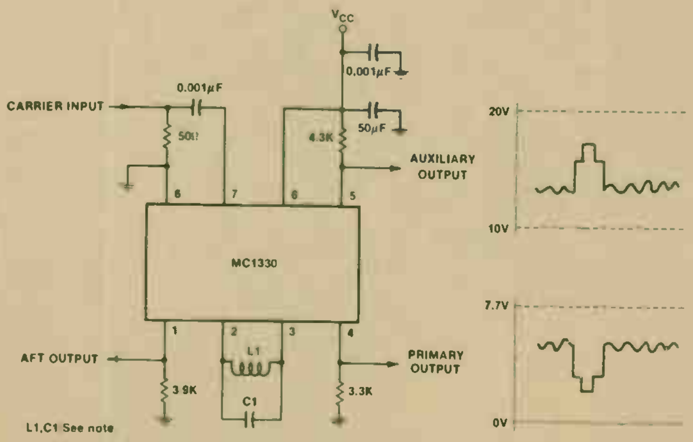
FEATURES

- Conversion gain—33 dB typical
- Excellent differential phase and gain
- High rejection of IF carrier feedthrough
- High video output—8.0 V p-p
- Fully balanced detector
- Output temperature compensated

ABSOLUTE MAXIMUM RATINGS

Power Supply Voltage	24 Vdc
DC Video Output Current	5mAdc
DC AFT Output Current	2mAdc
Zero Signal dc Output Voltage (V_{cc}=+20 Vdc, Q=40, f_c=45.75 MHz)	
MC1330A1P	8.2 Vdc
MC1330A2P	9.0 Vdc
Supply Current	20mA
Maximum Signal dc Output Voltage (Pin 4)	0.5 Vdc
Conversion Gain for 1Vp-p Output (30% Modulation)	65mVrms
AFT Buffer Output at Carrier Frequency	650mVp-p
Junction Temperature	150°C
Operating Temperature Range (Ambient)	0 to +75°C
Storage Temperature Range	−65 to +150°C

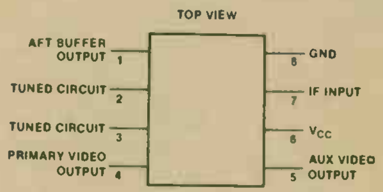
TYPICAL APPLICATIONS



NOTE The choice of Q for the tuned circuit of pins 2 and 3 is not critical. The higher the Q, the better the rejection of 920 kHz products but the more critical the tuning accuracy required. See Figure 3. Values of Q from 20 to 50 recommended. (Note the internal resistance.)

Test Fixture Circuit

PIN CONNECTION



TYPICAL CHARACTERISTICS (V_{cc}=+20 Vdc)

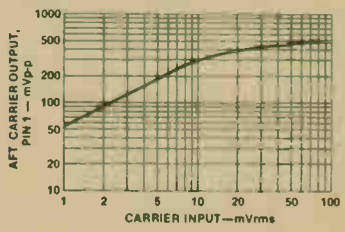


Figure 1

AFT Carrier Output vs Carrier Input

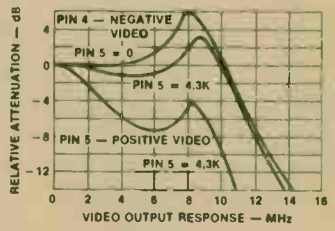
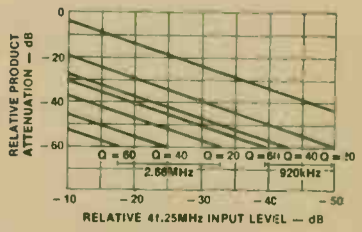


Figure 2

Relative Attenuation vs Video Output Response



REFERENCE = 3.58MHz OUTPUT
45.75MHz INPUT = 25mVrms
42.17MHz INPUT = 12.5mVrms
41.25MHz INPUT — RELATIVE TO
45.75 MHz INPUT = 4.5MHz

Figure 3

Relative Product Attenuation vs Relative 41.25 MHz Input Level

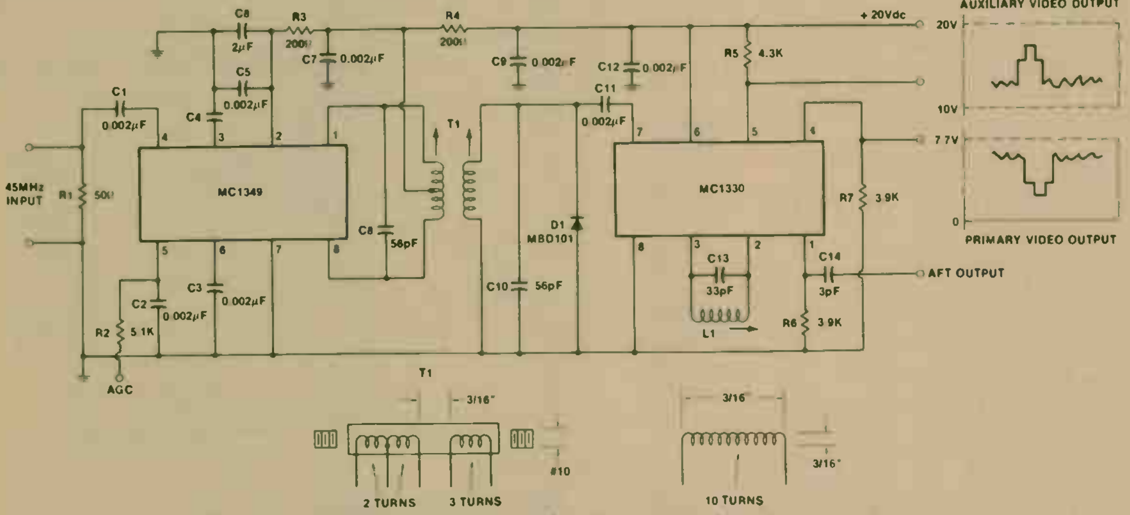
MC1330 276-1757

TYPICAL APPLICATIONS (Cont'd)

Alignment is most easily accomplished with an AM generator, set at a carrier frequency of 45.75 MHz, modulated with a video frequency sweep. This provides the proper realistic conditions necessary to operate to low-level detector (LLD). The detector tank is first adjusted for maximum detected dc (with a CW input), next, the video sweep modulation is applied and the interstage and input circuits aligned, step by step, as in a standard IF amplifier.

Note: A normal IF sweep generator, essentially an FM generator, will not serve properly without modification. The LLD tank attempts to "follow" the sweep input frequency, and results in variations of switching amplitude in the detector. Hence, the apparent overall response becomes modified by the response of the LLD tank, which a real signal doesn't do.

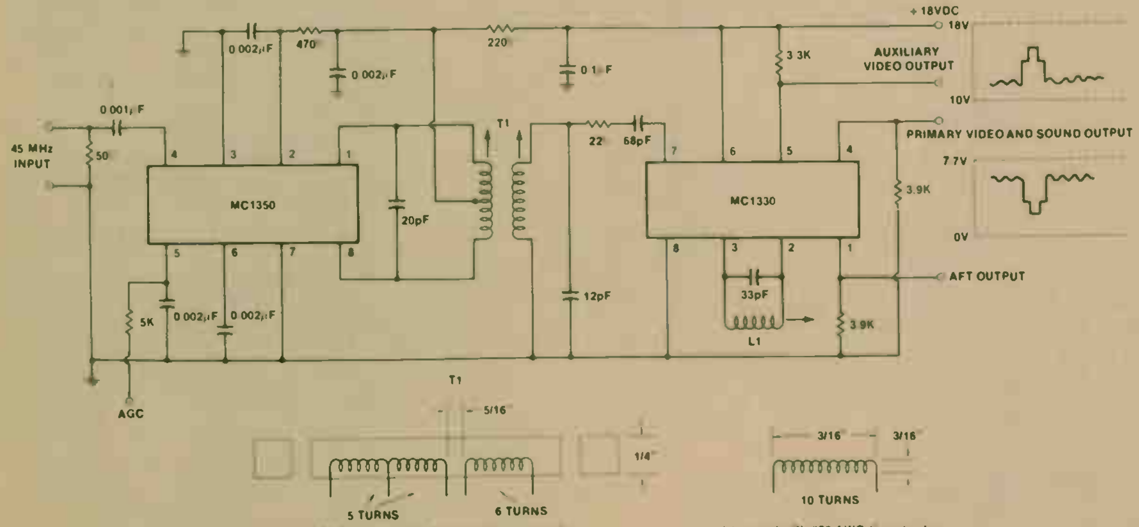
This effect can be prevented by resistively adding a 45.75 MHz CW signal to the output of the sweep generator approximately 3 dB greater than the sweep amplitude.



All windings 22 AWG tinned nylon acetate wire tuned with Coilcraft #61 slugs, size 10-32, or equivalent

L1 wound with 26 AWG tinned nylon acetate wire tuned by distorting winding

Video IF Amplifier and Low-Level Detector



All windings #30 AWG tinned nylon acetate wire tuned with Arnold Type TH slugs

L1 wound with #26 AWG tinned nylon acetate wire tuned by distorting winding

Typical MC1350 Video IF Amplifier and MC1330 Low-Level Video Detector Circuit

IF AMPLIFIER

MC1350
276-1758

GENERAL DESCRIPTION

This monolithic IF amplifier is an integrated circuit featuring wide range AGC for use as an IF amplifier in radio and TV.

The input amplifiers (Q1 and Q2) operate at constant emitter currents so that input impedance remains independent of AGC action. Input signals may be applied single-ended or differentially (for ac) with identical results. Terminals 4 and 6 may be driven from a transformer, but a dc path from either terminal to ground is not permitted.

AGC action occurs as a result of an increasing voltage on the base of Q4 and Q5 causing these transistors to conduct more heavily thereby shunting signal current from the interstage amplifiers Q3 and Q6. The output amplifiers are supplied from an active current source to maintain constant quiescent bias thereby holding output admittance nearly constant. Collector voltage for the output amplifier must be supplied through a center-tapped tuning coil to Pins 1 and 8. The 12-volt supply (V^+) at Pin 2 may be used for this purpose, but output admittance remains more nearly constant if a separate 15-volt supply (V^{++}) is used, because the base voltage on the output amplifier varies with AGC bias.

FEATURES

- Power gain — 50 dB typ at 45 MHz.
  — 48 dB typ at 58 MHz
- AGC range — 60 dB min. dc to 45 MHz
- Nearly constant input and output admittance over the entire AGC range
- y_{21} constant (− 3.0 dB) to 90 MHz
- Low reverse transfer admittance — < 1.0 μmho typ
- 12-volt operation, single-polarity-power supply

ABSOLUTE MAXIMUM RATINGS

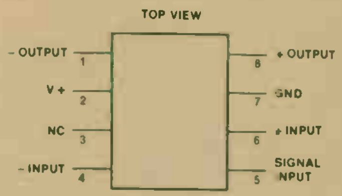
Power Supply Voltage	18Vdc
Power Dissipation	625mW
Operating Temperature Range	0 to + 75°C

ELECTRICAL CHARACTERISTICS

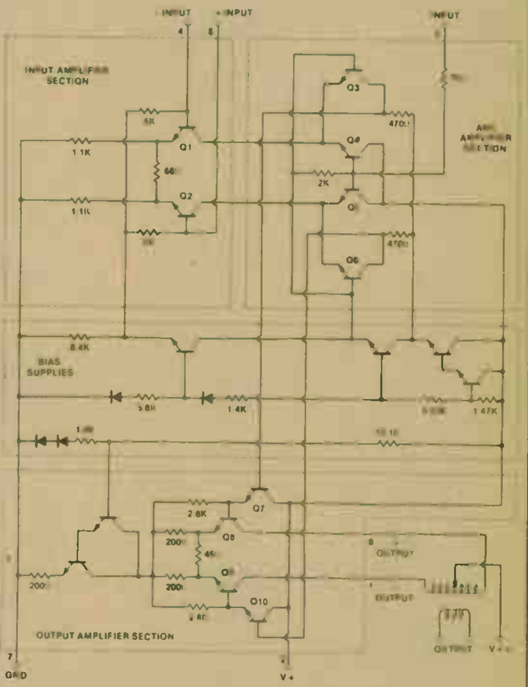
(V+ = +12 Vdc; T_A = + 25°C unless otherwise noted)

Power Gain (Pin 5 grounded via a 5.1k resistor)	
f = 58 MHz, BW = 4.5 MHz	48dB
f = 45 MHz, BW = 4.5 MHz	50dB
f = 10.7 MHz, BW = 350 kHz	58dB
f = 455 kHz, BW = 20 kHz	62dB
Power Dissipation	204mW

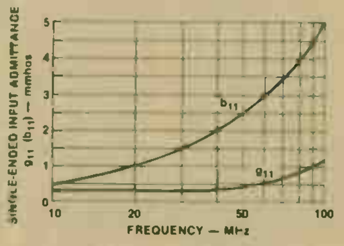
PIN CONNECTION



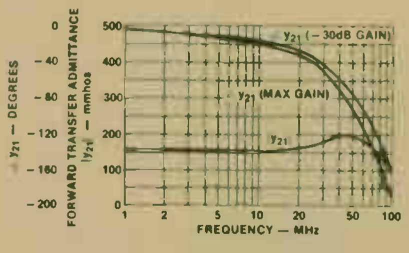
INTERNAL CIRCUIT



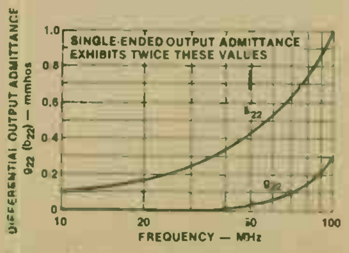
TYPICAL CHARACTERISTICS (V+=12V, T_A=+25°C)



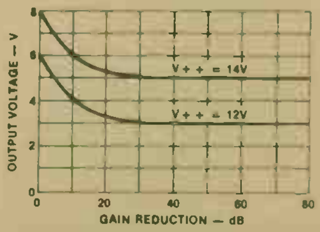
Input Admittance vs Frequency



Forward Transfer Admittance and Phase vs Frequency



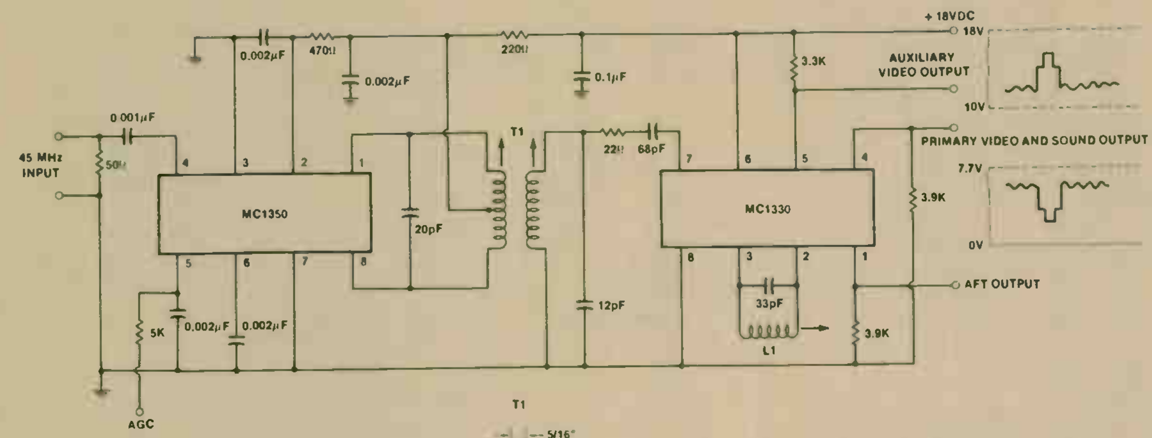
Differential Output Admittance vs Frequency

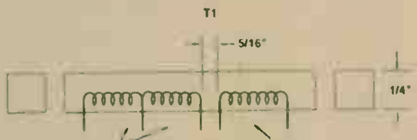


Differential Output Voltage vs Gain Reduction

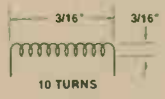
MC1350 276-1758

TYPICAL APPLICATIONS



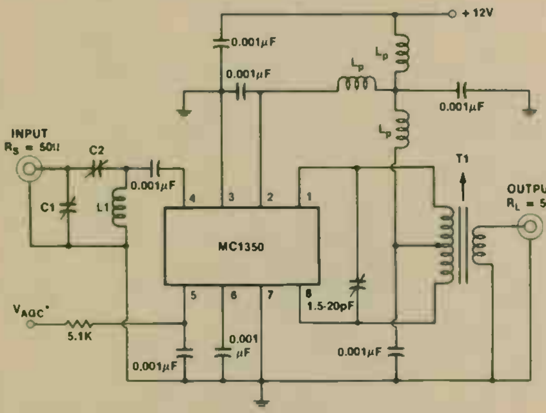


All windings #30 AWG tinned nylon acetate wire tuned with Arnold Type TH slugs



L1 wound with #26 AWG tinned nylon acetate wire tuned by distorting winding

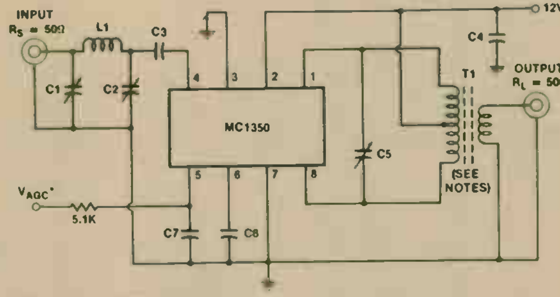
Typical MC1350 Video IF Amplifier and MC1330 Low-Level Video Detector Circuit



*Connect to ground for maximum power gain test.
All power-supply chokes (L_p), are self-resonate at input frequency. L_p ≥ 20K
L1 @ 45 MHz = 7¼ turns on a ¼" coil form.
@ 58 MHz = 6 turns on a ¼" coil form.
T1 primary winding = 18 turns on a ¼" coil form, center-tapped.
secondary winding = 2 turns centered over primary winding @ 45MHz
= 1 turn @ 58MHz
Core = Arnold TH material ½" long.

	45MHz		58MHz	
L1	0.4µH	Q ≥ 100	0.3µH	Q ≥ 100
T1	1.3-3.4µH	Q ≥ 100 @ 2µH	1.2-3.8µH	Q ≥ 100 @ 2µH
C1	50-160pF		8-60pF	
C2	8-60pF		3-35pF	

Power Gain, AGC, and Noise Figure Test Circuit (45 MHz and 58 MHz)

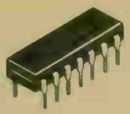


*Grounded for maximum power gain.

Note 1. Primary = 120µH, center-tapped.
Q_u = 140 at 455kHz.
Primary : Secondary turns ratio ≈ 13
2. Primary = 6.0µH
Primary winding = 24 turns #36 AWG, close wound on ¼" diameter form.
Secondary winding = 1½ turns #36 AWG, ¼" diameter, wound over center-tap.
Core = Arnold type TH, or equivalent.

COMPONENT	FREQUENCY	
	455kHz	10.7MHz
C1	—	80-450pF
C2	—	5-80pF
C3	0.05µF	0.001µF
C4	0.05µF	0.05µF
C5	0.001µF	36pF
C6	0.05µF	0.05µF
C7	0.05µF	0.05µF
L1	—	4.8µH
T1	NOTE 1	NOTE 2

Power Gain and AGC Test Circuit (455 kHz and 10.7 MHz)



IF AMPLIFIER, LIMITER, FM DETECTOR AUDIO DRIVER, ELECTRONIC ATTENUATOR

MC1358
276-1759

GENERAL DESCRIPTION

This TV sound IF amplifier is a versatile monolithic device incorporating IF limiting, detection, electronic attenuation, audio amplifier, and audio driver capabilities.

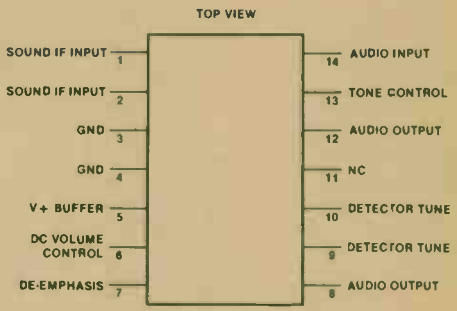
FEATURES

- Differential peak detector requiring a single tuned circuit
- Electronic attenuator replaces conventional ac volume control — Range > 60 dB
- Excellent AM rejection at 4.5 and 5.5 MHz
- High stability
- Low harmonic distortion
- Audio drive capability — 6.0 mAp-p
- Minimum undesirable output signal @ maximum attenuation

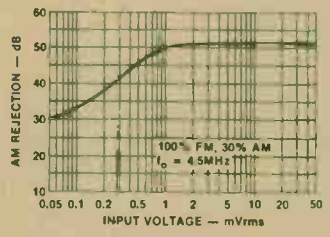
ABSOLUTE MAXIMUM RATINGS

Input Signal Voltage (Pins 1 and 2)	±3.0Vdc
Power Supply Current	50mA
Power Dissipation	625mW
Operating Temperature Range (Ambient)	−20 to +75°C
Storage Temperature Range	−65 to +150°C

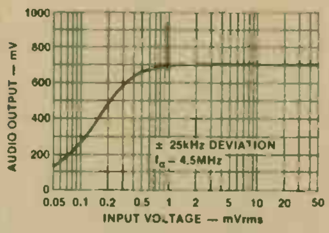
PIN CONNECTION



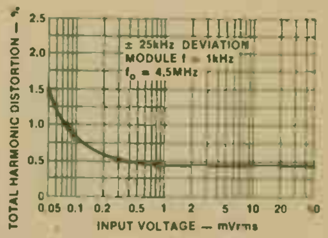
TYPICAL CHARACTERISTICS



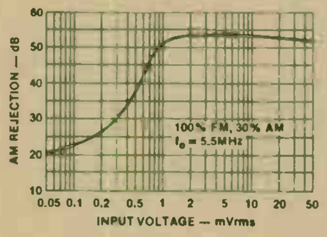
AM Rejection vs
Input Voltage



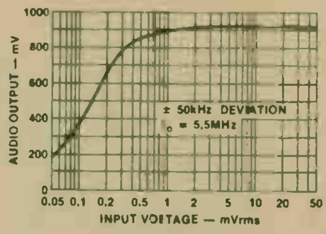
Audio Output vs
Input Voltage



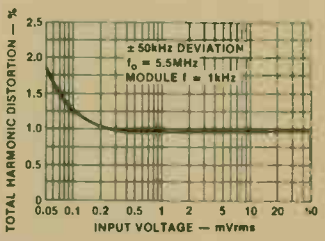
Total Harmonic Distortion
vs Input Voltage



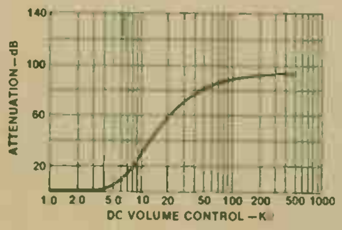
AM Rejection vs
Input Voltage



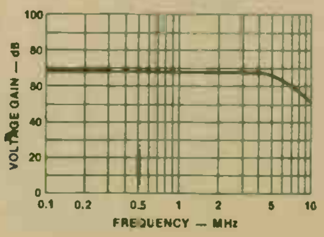
Audio Output vs
Input Voltage



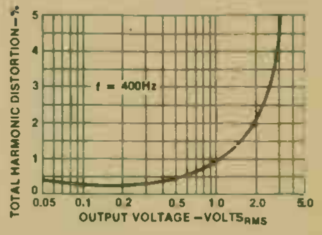
Total Harmonic Distortion
vs Input Voltage



Attenuation vs
DC Volume Control



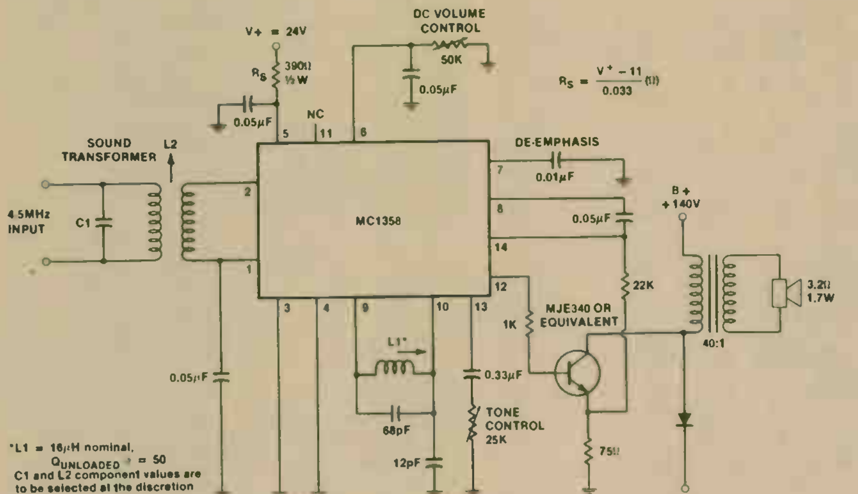
Voltage Gain vs
IF Frequency



Total Harmonic Distortion
vs Output Voltage

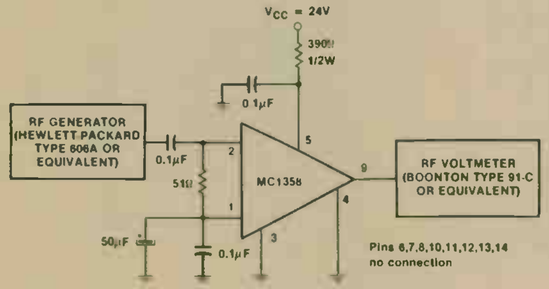
MC1358 276-1759

TYPICAL APPLICATIONS

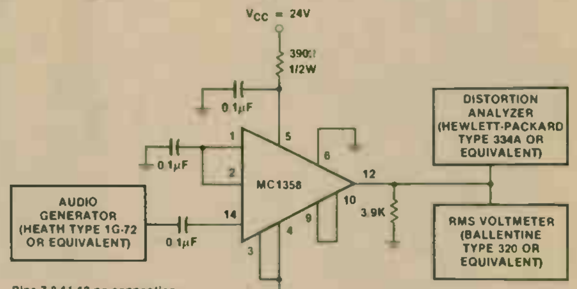


*L1 = 16µH nominal,
$Q_{UNLOADED} \geq 50$
C1 and L2 component values are to be selected at the discretion of the designer.

TV Application



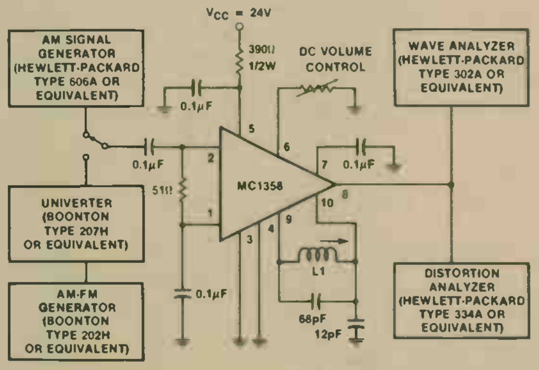
Pins 6,7,8,10,11,12,13,14 no connection



Pins 7,8,11,13 no connection.

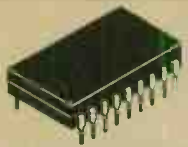
IF Frequency Response Test Circuit

Audio Voltage Gain,
Audio THD Test Circuit



L1 = 10 TO 16µH Q (unloaded) ≥ 50 Pins 11,12,13,14 no connection.

AM Rejection, Detected Audio,
THD, Attenuation Test Circuit



DOT/BAR DISPLAY DRIVER

3916
276-1709

GENERAL DESCRIPTION

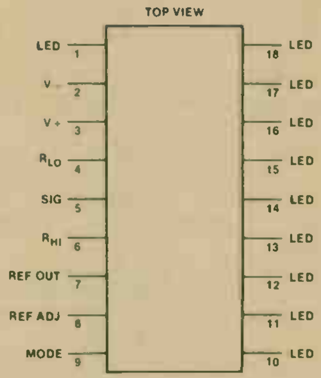
The 3916 is a monolithic integrated circuit that senses analog voltage levels and drives ten LEDs, LCDs or vacuum fluorescent displays, providing an electronic version of the popular VU meter. One pin changes the display from a bar graph to a moving dot display. LED current drive is regulated and programmable, eliminating the need for current limiting resistors. The whole display system can operate from a single supply as low as 3V or as high as 25V.

The IC contains an adjustable voltage reference and an accurate ten-step voltage divider. The high-impedance input buffer accepts signals down to ground and up to within 1.5V of the positive supply. Further, it needs no protection against inputs of ±35V. The input buffer drives 10 individual comparators referenced to the precision divider. Accuracy is typically better than 0.2 dB.

Audio applications include average or peak level indicators, and power meters. Replacing conventional meters with an LED bar graph results in a faster responding, more rugged display with high visibility that retains the ease of interpretation of an analog display.

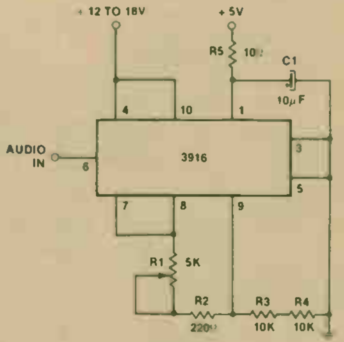
The 3916 is extremely easy to apply. A 1.2V full-scale meter requires only one resistor in addition to the ten LEDs. One more resistor programs the full-scale anywhere from 1.2V to 12V independent of supply voltage. LED brightness is easily controlled with a single pot.

PIN CONNECTION



FEATURES

- Fast responding electronic VU meter
- Drives LEDs, LCDs, or vacuum fluorescents
- Bar or dot display mode externally selectable by user
- Expandable to displays of 70 dB
- Internal voltage reference from 1.2V to 12V
- Inputs operate down to ground
- Output current programmable from 1 mA to 30 mA
- Input withstands ±35V without damage or false outputs
- Outputs are current regulated, open collectors
- Directly drives TTL or CMOS
- The internal 10-step divider is floating and can be referenced to a wide range of voltages

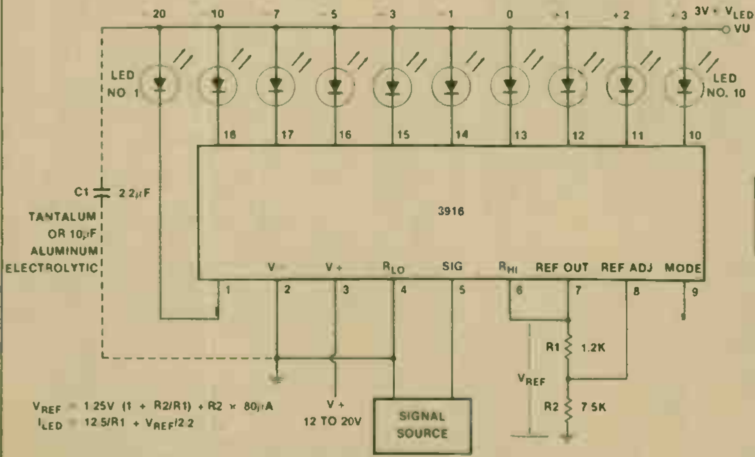


VU Bar Graph Display

ABSOLUTE MAXIMUM RATINGS

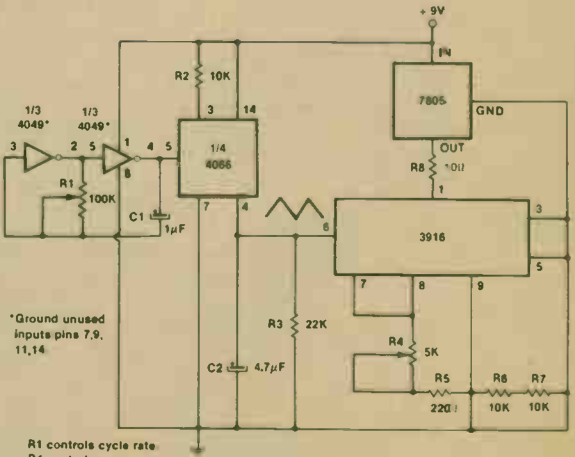
Supply Voltage	3 to 25 V
Input Signal Over Voltage	± 35 V
Storage Temperature	0 to 70°C

TYPICAL APPLICATIONS



Notes 1 Capacitor C1 is required if leads to the LED supply are 6" or longer
2 Circuit as shown is wired for dot anode. For bar mode, connect pin 9 to pin 3
L_{LED} must be kept below 7V or dropping resistor should be used to limit IC power dissipation

0V to 10V VU Meter

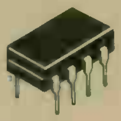


R1 controls cycle rate
R4 controls range
Two gate oscillator switches 4066 on and off
C2 is charged via R2 and discharged by R3 to give voltage ramp

Back and Forth Flasher

ICL7660
276-2335

VOLTAGE CONVERTER



GENERAL DESCRIPTION

The ICL7660 is a power supply circuit which offers unique performance advantages over previously available devices. The ICL7660 performs the complete supply voltage conversion from positive to negative for an input range of +1.5 to +10.0V, resulting in complementary output voltages of −1.5 to −10.0V with the addition of only 2 non-critical external capacitors needed for the charge pump and charge reservoir functions. Note that an additional diode is required for $V_{SUPPLY} > 6.5V$.

Contained on chip are a series DC power supply regulator, RC oscillator, voltage level translator, four output power MOS switches, and a unique logic element which senses the most negative voltage in the device and ensures that the output N-channel switches are not forward biased. This assures latch-up free operation.

The oscillator, when unloaded, oscillates at a nominal frequency of 10 kHz for an input supply voltage of 5.0 volts. This frequency can be lowered by the addition of an external capacitor to the "OSC" terminal, or the oscillator may be overdriven by an external clock.

The "LV" terminal may be tied to GROUND to bypass the internal series regulator and improve low voltage (LV) operation. At medium to high voltages (+3.5 to +10.0 volts), the LV pin is left floating to prevent device latchup.

Typical applications for the ICL7660 will be data acquisition and microprocessor based systems where there is a +5 volt supply available for the digital functions and an additional −5 volt supply is required for the analog functions. The ICL7660 is also ideally suited for providing low current, −5V body bias supply for dynamic RAMs.

FEATURES

- Simple conversion of +5V logic supply to ±5V supplies
- Simple voltage multiplication ($V_{OUT} = (-)\, nV_{IN}$)
- 99.9% typical open circuit voltage conversion efficiency
- 98% typical power efficiency
- Wide operating voltage range 1.5 to 10.0V
- Easy to use - requires only 2 external non-critical passive components

APPLICATIONS

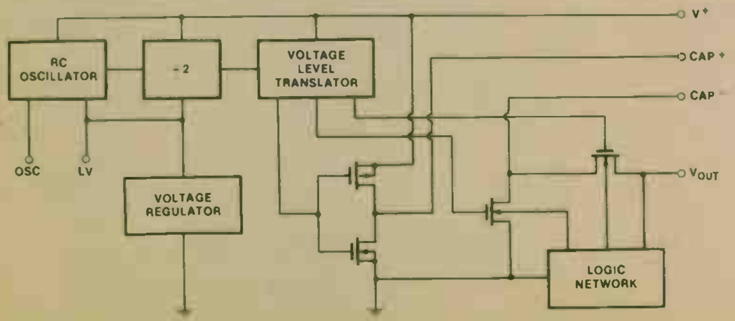
- On board negative supply for up to 64 dynamic RAMs.
- Localized μ-processor (8080 type) negative supplies
- Inexpensive negative supplies
- Data acquisition systems

ABSOLUTE MAXIMUM RATINGS

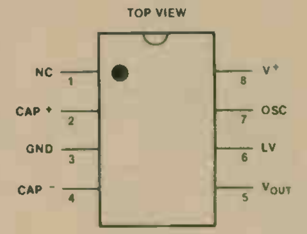
Supply Voltage 10.5V
Oscillator Input Voltage (Note 1) .... $-0.3V$ to $(V^+ + 0.3V)$ for $V^+ < 5.5V$
$(V^+ - 5.5V)$ to $(V^+ + 0.3V)$ for $V^+ > 5.5V$
$-0.3V$ to $(V^+ + 0.3V)$ for $V^+ < 3.5V$
LV (Note 1) .... No connection for $V^+ > 3.5V$
Output Short Duration ($V_{SUPPLY} \leq 5.5V$) .... Continuous
Power Dissipation (Note 2) ICL7660CPA 300mW

Notes: 1 Connecting any terminal to voltages greater than V^+ or less than GROUND may cause destructive latchup. It is recommended that no inputs from sources operating from external supplies be applied prior to "power up" of the ICL7660.
2. Derate linearly above 50°C by 5.5mW/°C.

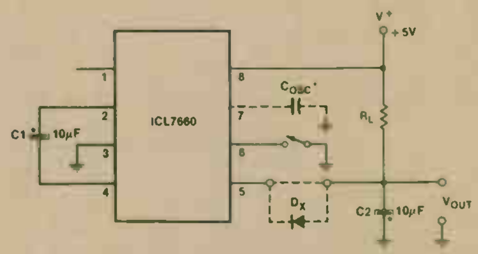
BLOCK DIAGRAM



PIN CONNECTION



TEST CIRCUIT



*Notes: 1. For large value of C_{OSC} (> 1000pF) the values of C1 and C2 should be increased to 100μF
2. D_X is required for supply voltages greater than 6.5V @ $-55°C \leq T_A \leq +70°C$; refer to performance curves for additional information.

Test Circuit

ICL7660 276-2335

THEORETICAL POWER EFFICIENCY CONSIDERATIONS

In theory a voltage multiplier can approach 100% efficiency if certain conditions are met:

A. The drive circuitry consumes minimal power

B. The output switches have extremely low ON resistance and virtually no offset.

C. The impedances of the pump and reservoir capacitors must be negligible at the pump frequency.

The ICL7660 approaches these conditions for negative voltage multiplication if large values of C1 and C2 are used. ENERGY IS LOST ONLY IN THE TRANSFER OF CHARGE BETWEEN CAPACITORS IF A CHANGE IN VOLTAGE OCCURS. The energy lost is defined by:

$$E = 1/2\ C1\ (V_1^2 - V_2^2)$$

Where V_1 and V_2 are the voltages on C1 during the pump and transfer cycles. If the impedances of C1 and C2 are relatively high at the pump frequency (refer to Fig. 1) compared to the value of R_L, there will be a substantial difference in the voltages V_1 and V_2. Therefore it is not only desirable to make C2 as large as possible to eliminate output voltage ripple, but also to employ a correspondingly large value for C1 in order to achieve maximum efficiency of operation.

DO'S AND DON'TS

1. Do not exceed maximum supply voltages.
2. Do not connect LV terminal to GROUND for supply voltages greater than 3.5 volts.
3. Do not short circuit the output to V^+ supply for supply voltages above 5.5 volts for extended periods, however, transient conditions including startup are okay.
4. When using polarized capacitors, the + terminal of C1 must be connected to pin 2 of the ICL7660 and the + terminal of C2 must be connected to GROUND.
5. Add diode D_X as shown in the test circuit for hi-voltage, elevated temperature applications.

CONSIDERATIONS FOR HI VOLTAGE & ELEVATED TEMPERATURE

The ICL7660 will operate efficiently over its specified temperature range with only 2 external passive components (charge & pump capacitors), provided the operating supply voltage does not exceed 6.5 volts at +70°C and 5.0 volts at +125°C. Exceeding these maximums at the temperatures indicated may result in destructive latch-up of the ICL7660. (Ref: Graph "Operating Voltage vs. Temperature")

Operation at supply voltages of up to 10.0 volts over the full temperature range without danger of latch-up can be achieved by adding a general purpose diode in series with the ICL7660 output, as shown by "D_X" in the circuit diagrams. The effect of this diode on overall circuit performance is the reduction of output voltage by one diode drop (approximately 0.6 volts).

TYPICAL APPLICATIONS

The majority of applications will undoubtedly utilize the ICL7660 for generation of negative supply voltages. Figure 2 shows typical connections to provide a negative supply where a positive supply is available. A similar scheme may be employed for supply voltages anywhere in the operating range of + 1.5V to + 10.0 volts, keeping in mind that pin 6 (LV) is tied to the supply negative (GND) only for supply voltages below 3.5 volts, and that diode D_X must be included for proper operation at higher voltages and/or elevated temperatures.

The output characteristics of the circuit in Figure 2 are those of a nearly ideal voltage source in series with 70 ohms. Thus for a load current of −10mA and a supply voltage of +5 volts, the output voltage will be −4.3 volts. The dynamic output impedance due to the capacitor impedances is 1/ωC where

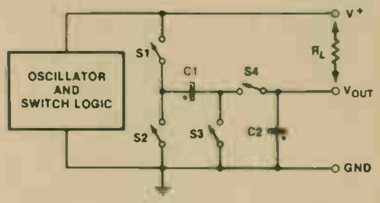
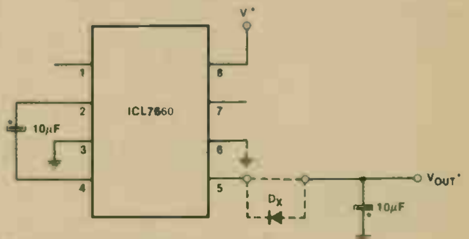


Figure 1—Idealized Voltage Doubler



*Note: 1. $V_{OUT} = -nV^+$ FOR $1.5V < V^+ < 6.5V$
2. $V_{OUT} = -n(V^+ - V_{FDX})$ FOR $6.5V \le V^+ < 10V$

Figure 2—Simple Negative Converter

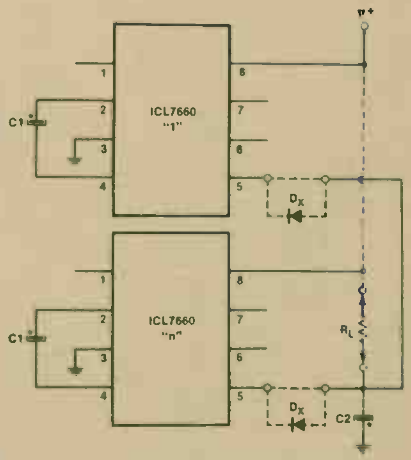
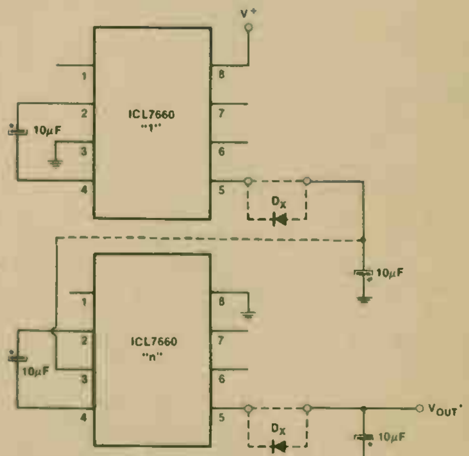


Figure 3—Paralleling Devices



Note: 1. $V_{OUT} = -nV^+$ $1.5V \le V^+ < 6.5V$
2 $V_{OUT} = -n(V^+ - V_{FDX})$ FOR $6.5V < V^+ \le 10.0V$

Figure 4—Cascading Devices for Increased Output Voltage

ICL7660 276-2335

TYPICAL APPLICATIONS (Cont'd)

$$C = C1 = C2$$

$$\text{giving} \quad \frac{1}{\omega C} = \frac{1}{2\pi\, f_{OSC} \times 10^{-5}} = 3\,\Omega$$

for C = 10μF and f_{OSC} = 5kHz (½ of oscillator frequency)

Any number of ICL7660 voltage convertors may be paralleled (Fig. 3) to reduce output resistance. The reservoir capacitor, C2, serves all devices while each device requires its own pump capacitor, C1. The resultant output resistance would be approximately:

$$R_{OUT} = \frac{R_{OUT}\text{ (of ICL7660)}}{\text{n (number of devices)}}$$

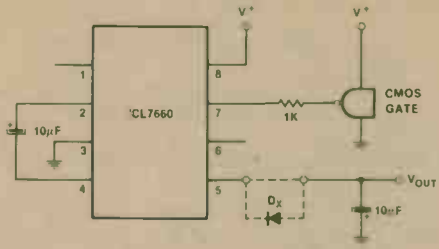


Figure 5—External Clocking

The ICL7660 may be cascaded as shown (Fig. 4) to produce larger negative multiplication of the initial supply voltage, however, due to the finite efficiency of each device, the practical limit is 10 devices for light loads. The output voltage is defined by:

$$V_{OUT} = -n\,(V_{IN}),$$

where n is an integer representing the number of devices cascaded. The resulting output resistance would be approximately the sum of the individual ICL7660 R_{OUTS}.

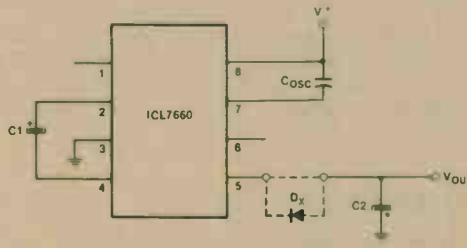
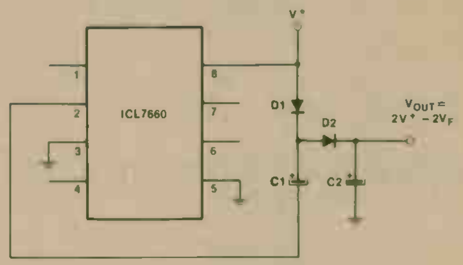


Figure 6—Lowering Oscillator Frequency

It may be desirable in some applications, due to noise or other considerations, to increase the oscillator frequency. This is achieved by overdriving the oscillator from an external clock, as shown in Figure 5. In order to prevent possible device latchup, a 1kΩ resistor must be used in series with the clock output. In the situation where the designer has generated the external clock frequency using TTL logic, the addition of a 10kΩ pullup resistor to V⁺ supply is required. note that the pump frequency with external clocking, as with internal clocking, will be 1/2 of the clock frequency.

It is also possible to maximize the conversion efficiency of the ICL7660 by lowering the oscillator frequency. This is achieved by connecting an additional capacitor C_{OSC} as shown in Figure 6, however.

Lowering the oscillator frequency will necessitate an undesirable increase in the impedance of the pump (C1) and reservoir (C2) capacitors; this is overcome by increasing the values of C1 and C2 by the same factor that the frequency has been reduced. For example, the addition of a 100pF capacitor between pin 7 (Osc) and V⁺ will lower the oscillator frequency to 1kHz from its nominal frequency of 10kHz (a multiple of 10), and thereby necessitate a corresponding increase in the value of C1 and C2 (from 10μF to 100μF).



Note: D1 & D2 can be any suitable diode

Figure 7—Positive Voltage Multiplier

The ICL7660 may be employed to achieve positive voltage multiplication using the circuit shown in Figure 7. In this application, the pump inverter switches of the ICL7660 are used to charge C1 to a voltage level of $V^+ - V_F$ (where V⁺ is the supply voltage and V_F is the forward voltage drop of diode D1). On the transfer cycle, the voltage on C1 plus the supply voltage (V⁺) is applied through diode D2 to capacitor C2. The voltage thus created on C2 becomes $(2V^+) - (2V_F)$ or twice the supply voltage minus the combined forward voltage drops of diodes D1 and D2.

The source impedance of the output (V_{OUT}) will depend on the output current, but for V⁺ = 5 volts and an output current of 10mA it will be approximately 60 ohms.

Figure 8 combines the functions shown in Figures 2 and 7 to provide negative voltage conversion and positive voltage multiplication simultaneously. This approach would be, for example, suitable for generating +9 volts and −5 volts from an existing +5 volt supply. In this instance capacitors C1 and C3 perform the pump and reservoir functions respectively for the generation of the negative voltage, while capacitors C2 and C4 are pump and reservoir respectively for the multiplied positive voltage. There is a penalty in this configuration which combines both functions, however, in that the source impedances of the generated supplies will be somewhat higher due to the finite impedance of the common charge pump driver at pin 2 of the device.

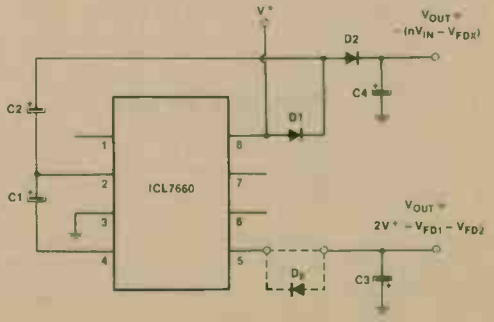
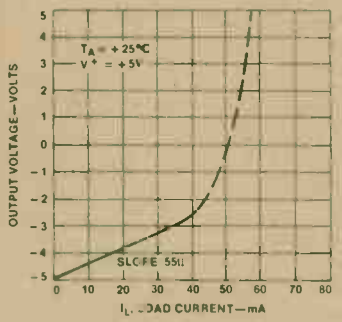

V+
$V_{OUT} = -(nV_{IN} - V_{FDX})$
D2
C4
C2
D1
1
2
3
4
8
7
6
5
ICL7660
C1
$V_{OUT} = 2V^+ - V_{FD1} - V_{FD2}$
D_X
C3

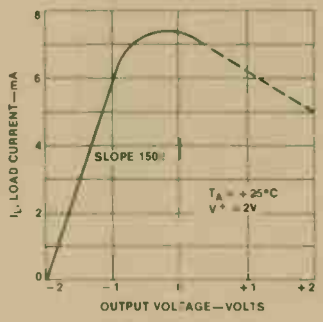
Figure 8—Combining Negative Converter and Positive Multiplier

ICL7660 276-2335

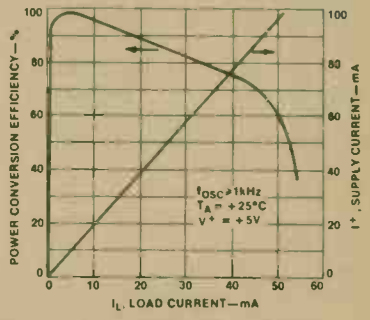
TYPICAL CHARACTERISTICS



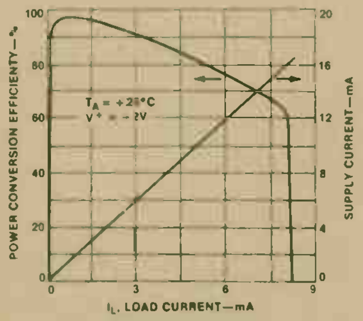
Output Voltage
vs Load Current



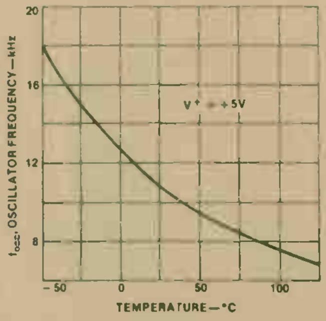
Output Voltage
vs Load Current



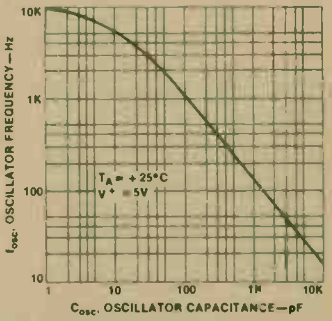
Power Conversion Efficiency
vs Load Current



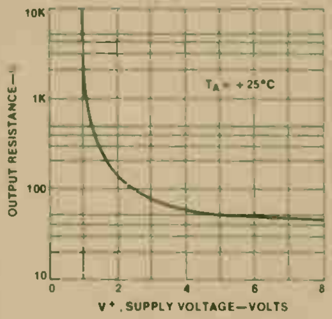
Power Conversion Efficiency
vs Load Current



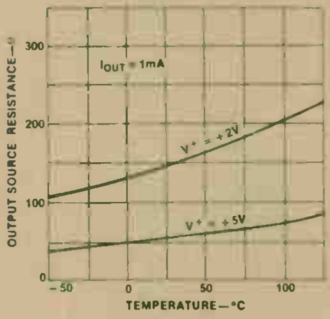
Oscillation Frequency
vs Temperature



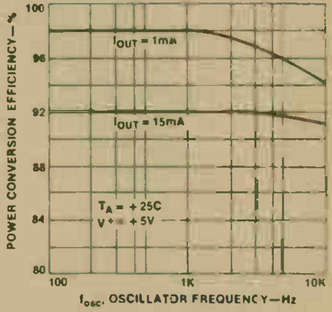
Oscillation Frequency vs
External Oscillation Capacitance



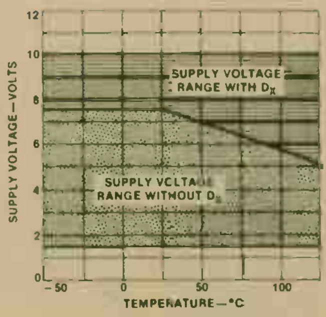
Output Source Resistance
vs Supply Voltage



Output Source Resistance
vs Temperature



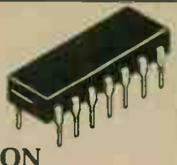
Power Conversion Efficiency
vs Oscillation Frequency



Supply Voltage
vs Temperature

ICL8038
276-2334

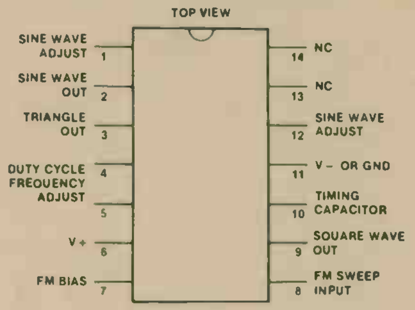
PRECISION WAVEFORM GENERATOR/ VOLTAGE CONTROLLED OSCILLATOR



GENERAL DESCRIPTION

The ICL8038 waveform generator is a monolithic integrated circuit capable of producing high accuracy sine, square, triangular, sawtooth and pulse waveforms with a minimum of external components. The frequency (or repetition rate) can be selected externally from 0.001Hz to more than 300kHz using either resistors or capacitors, and frequency modulation and sweeping can be accomplished with an external voltage. The ICL8038 is fabricated with advanced monolithic technology, using Schottky-barrier diodes and thin film resistors, and the output is stable over a wide range of temperature and supply variations.

PIN CONNECTION

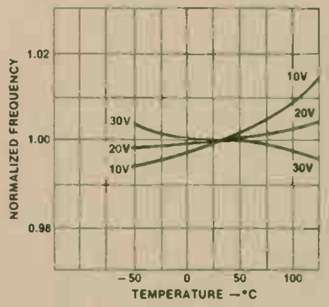


FEATURES

- Low frequency drift with temperature — 50ppm/°C
- Simultaneous sine, square, and triangle wave outputs
- Low distortion — 1% (sine wave output)
- High linearity — 0.1% (triangle wave output)
- Wide operating frequency range — 0.001Hz to 0.3MHz
- Variable duty cycle — 2% to 98%
- High level outputs — TTL to 28 V
- Easy to use — just a handful of external components required

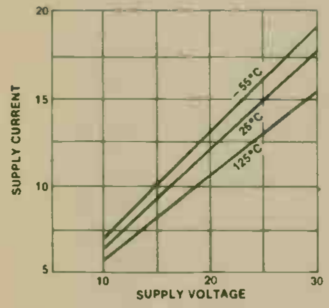
ABSOLUTE MAXIMUM RATINGS

Supply Voltage	±18 V or 36 V Total
Power Dissipation	750 mW
Input Voltage (any pin)	Not To Exceed Supply Voltages
Input Current (Pins 4 and 5)	25 mA
Output Sink Current (Pins 3 and 9)	25 mA
Storage Temperature Range	−65°C to +125°C
Lead Temperature (Soldering, 10 sec.)	300°C

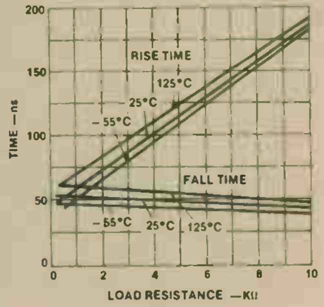


Normalized Frequency
vs Temperature

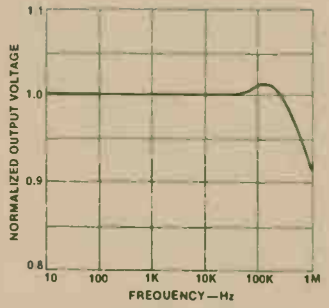
TYPICAL CHARACTERISTICS



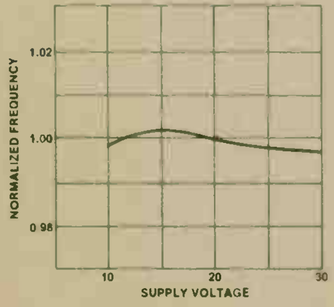
Supply Current
vs Supply Voltage



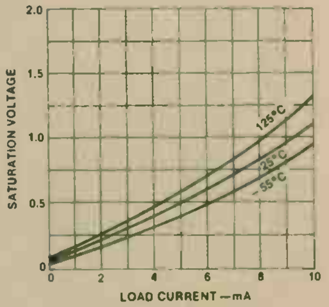
Time vs
Load Resistance



Normalized Output Voltage
vs Frequency

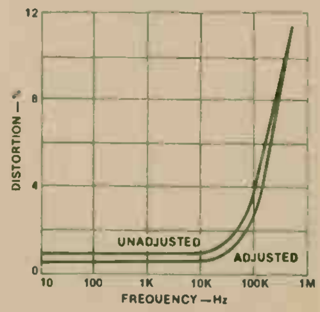


Normalized Frequency
vs Supply Voltage



Saturation Voltage
vs Load Current

Performance of the Square-Wave Output



Distortion vs
Frequency

Performance of the Sine-Wave Output

ICL8038 276-2334

TEST CIRCUIT

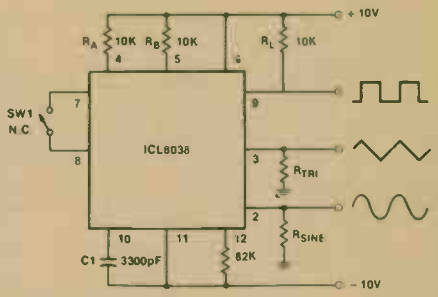
Selecting R_A, R_B AND C

For any given output frequency, there is a wide range of RC combinations that will work, however certain constraints are placed upon the magnitude of the charging current for optimum performance. At the low end, currents of less than 1μA are undesirable because circuit leakages will contribute significant errors at high temperatures. At higher currents (I > 5mA), transistor betas and saturation voltages will contribute increasingly larger errors. Optimum performance will, therefore, be obtained with charging currents of 10μA to 1mA. If pins 7 and 8 are shorted together, the magnitude of the charging current due to R_A can be calculated from:

$$I = \frac{R1 \times V_{SUPPLY}}{(R1 + R2)} \times \frac{1}{R_A} = \frac{V_{SUPPLY}}{5R_A}$$

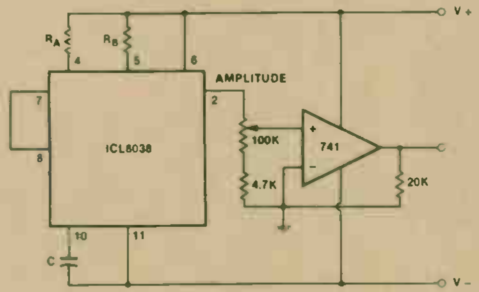
A similar calculation holds for R_B.

The capacitor value should be chosen at the upper end of its possible range.



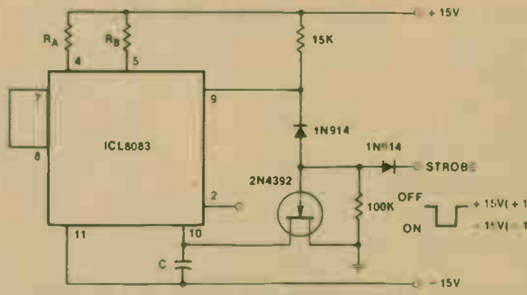
Test Circuit

TYPICAL APPLICATIONS



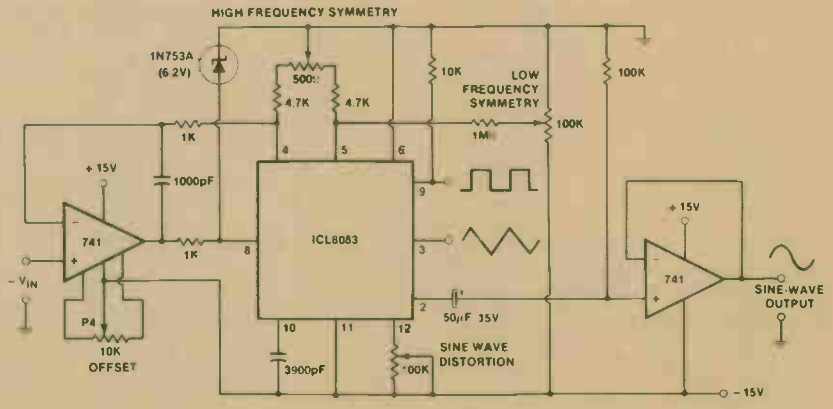
The sine wave output has a relatively high output impedance (1kΩ typical). This circuit provides buffering, gain and amplitude adjustment. A simple op amp follower could also be used.

Sine Wave Output Buffer Amplifier



With a dual supply voltage the external capacitor on pin 10 can be shorted to ground to halt the 8083 oscillation. This application uses a FET switch, diode ANDed with an input strobe signal to allow the output to always start on the same slope

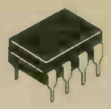
Strobe-Tone Burst Generator



Linear Voltage Controlled Oscillator

MC3423
276-1717

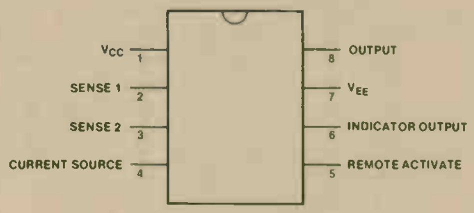
OVERVOLTAGE-SENSING CIRCUIT



GENERAL DESCRIPTION

These overvoltage-sensing circuits are designed to protect sensitive electronic circuitry by monitoring the supply rail and triggering an external "crowbar" SCR in the event of a voltage transient or loss of regulation. The protective mechanism may be activated by an overvoltage condition at the Sense 2 input or by application of a TTL high level to the remote activate terminal. Separate outputs are available to trigger the crowbar circuit and to provide a logic pulse to indicator or power supply control circuitry. The Sense 2 input provides a direct control of the output circuitry. The Sense 1 input controls an internal current source that may be utilized to implement a delayed trigger by connecting its output to an external capacitor and the Sense 2 input. This protects against false triggering due to noise at the Sense 1 input.

PIN CONNECTION



FEATURES

- Separate outputs for "crowbar" and logic circuitry
- Programmable time delay to eliminate noise triggering
- TTL-level activation isolated from voltage-sensing inputs
- 2.6-volt internal voltage reference with temperature coefficient typically 0.08%/°C

ABSOLUTE MAXIMUM RATINGS

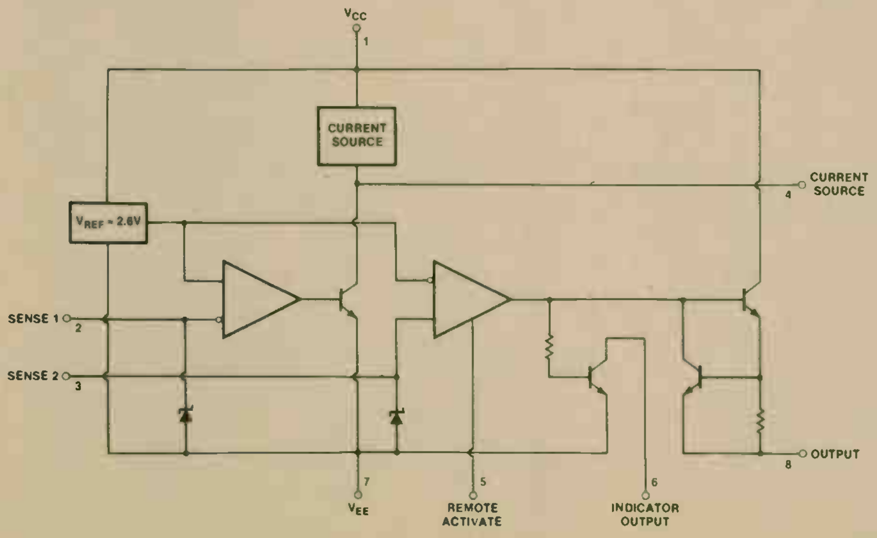
Supply Voltage, V_{CC} (See Note 1)	40 V
Sense 1 Voltage	6.5 V
Sense 2 Voltage	6.5 V
Remote Activate Input Voltage	7 V
Output Current, I_O	300 mA
Continuous Dissipation at (or below) 25°C Free-Air Temperature	1000 mW
Operating Free-Air Temperature Range	0 to 70°C
Storage Temperature Range	−65 to 150°C

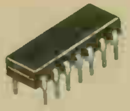
NOTES: 1. Voltage values are measured with respect to the V_{EE} terminal.

RECOMMENDED OPERATING CONDITIONS

	MIN	MAX	UNIT
Supply Voltage, V_{CC}	4.5	40	V
High-Level Input Voltage, Remote Activate Input	2		V
Low-Level Input Voltage, Remote Activate Input		0.5	V

BLOCK DIAGRAM





QUAD COMPARATOR

339
276-1712

GENERAL DESCRIPTION

The 339 series consists of four independent voltage comparators which were designed specifically to operate from a single power supply over a wide range of voltages. Operation from split power supplies is also possible and the low power supply current drain is independent of the magnitude of the power supply voltage. These comparators also have a unique characteristic in that the input common-mode voltage range includes ground, even though operated from a single power supply voltage.

FEATURES

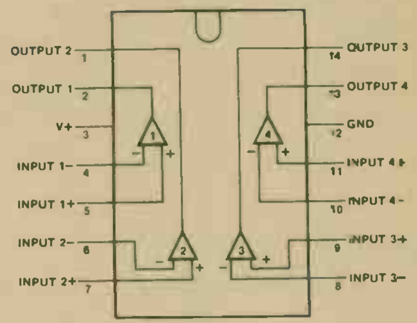
- Wide single supply:
  Voltage range 2 V_{DC} to 32 V_{DC} or dual supplies ±1 V_{DC} to ±16 V_{DC}
- Very low supply current drain (0.8 mA)—independent of supply voltage (1 mW/comparator at +5 V_{DC})
- Input common mode voltage range includes ground
- Differential input voltage range equal to the power supply voltage
- Low output 1 mV at 5 μA; saturation voltage 70 mV at 1 mA
- Output voltage compatible with TTL (fanout of 2), DTL, ECL, MOS and CMOS logic systems

ABSOLUTE MAXIMUM RATINGS

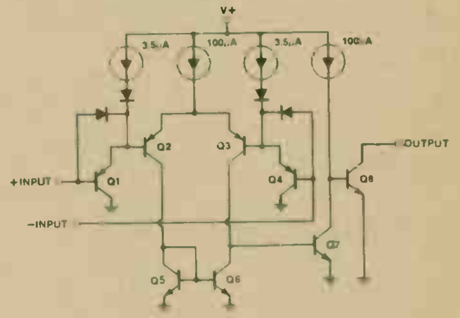
Supply Voltage, V+	32 V_{DC} or ±16 V_{DC}
Differential Input Voltage	36 V_{DC}
Input Voltage	−0.3 V_{DC} to +36 V_{DC}
Power Dissipation	
Molded DIP	570 mW
Cavity DIP	900 mW
Output Short-Circuit to GND	Continuous
Input Current (V_{IN} < −0.3 V_{DC})	50 mA
Operating Temperature Range	0 to +70°C
Storage Temperature Range	−65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

PIN CONNECTION

TOP VIEW

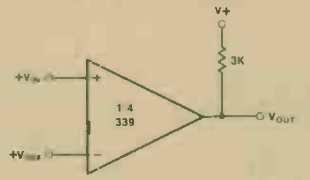


INTERNAL CIRCUIT

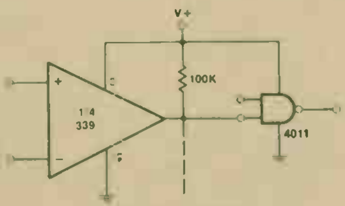


TYPICAL APPLICATIONS

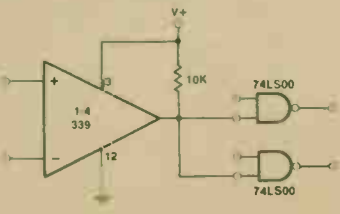
5 VOLT GROUP



Basic Comparator

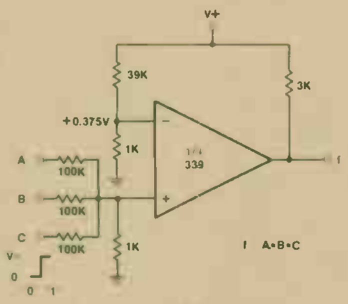


Driving CMOS

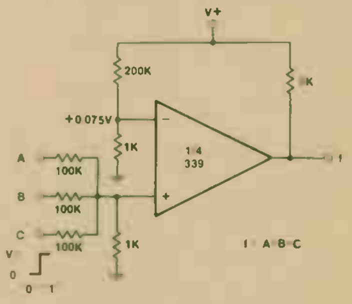


Driving TTL

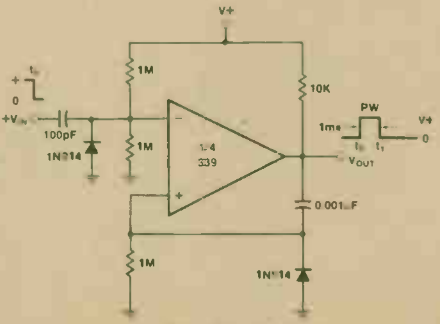
15V GROUP



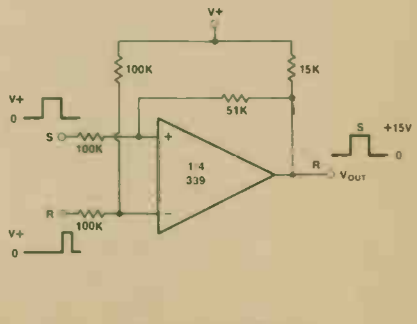
AND Gate



OR Gate



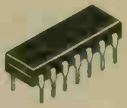
One-Shot Multivibrator



Bi-Stable Multivibrator

565
276-1720

PHASE LOCKED LOOP



GENERAL DESCRIPTION

The 565 phase-locked loop (PLL) is a self-contained, adaptable filter and demodulator for the frequency range from 0.001 Hz to 500kHz. The circuit comprises a voltage-controlled oscillator of exceptional stability and linearity, a phase comparator, an amplifier and a low-pass filter as shown in the block diagram. The center frequency of the PLL is determined by the free-running frequency of the VCO; this frequency can be adjusted externally with a resistor or a capacitor. The low-pass filter, which determines the capture characteristics of the loop, is formed by an internal resistor and an external capacitor.

FEATURES

- Highly stable center frequency (200ppm/°C typ.)
- Wide operating voltage range (±6 to ±12 volts)
- Highly linear demodulated output (0.2% typ.)
- Center frequency programming by means of a resistor or capacitor, voltage or current
- TTL and LS compatible square-wave output; loop can be opened to insert digital frequency divider.
- Highly linear triangle wave output
- Reference output for connection of comparator in frequency discriminator
- Bandwidth adjustable from < ±1% to > ±60%
- Frequency adjustable over 10 to 1 range with same capacitor

APPLICATIONS

- Frequency shift keying
- Modems
- Telemetry receivers
- Tone decoders
- SCA receivers
- Wideband FM discriminators
- Data synchronizers
- Tracking filters
- Signal restoration
- Frequehcy multiplication & division

ABSOLUTE MAXIMUM RATINGS

Maximum operating voltage	±12V
Input voltage	3Vp-p
Power dissipation	300mW
Operating temperature range	0 to +70°C
Storage temperature	−65 to +150°C

DESIGN FORMULAS (See Figure 1, Page 100)

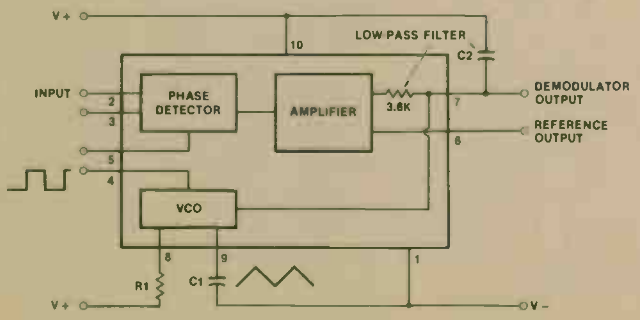
Free-running frequency of VCO: $f_o \cong \frac{1.2}{4R1C1}$ in Hz

Lock-range $f_L = \pm \frac{8f_o}{V_{CC}}$ in Hz

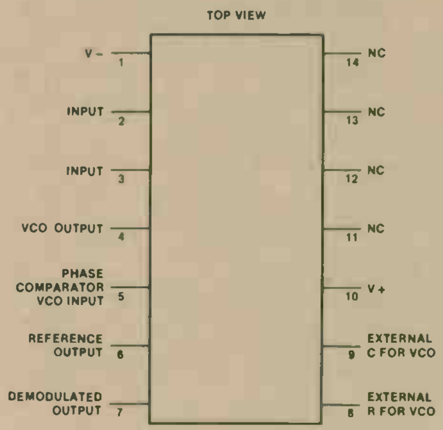
Capture-range: $f_C \cong \pm \frac{1}{2\pi}\sqrt{\frac{2\pi f_L}{\tau}}$

where $\tau = (3.6 \times 10^3) \times C2$

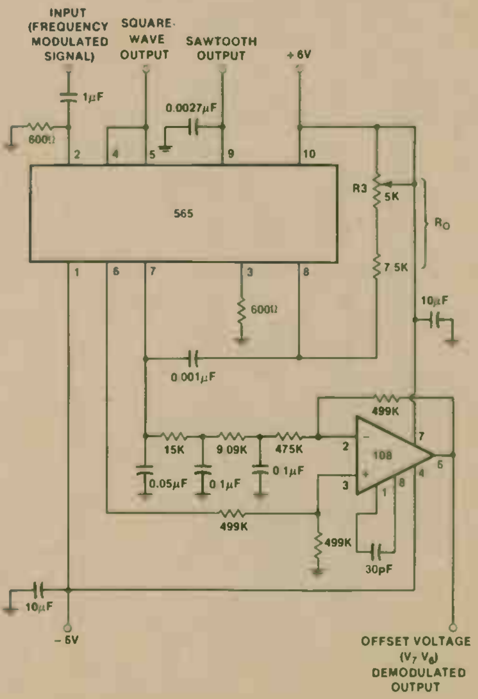
BLOCK DIAGRAM



PIN CONNECTION



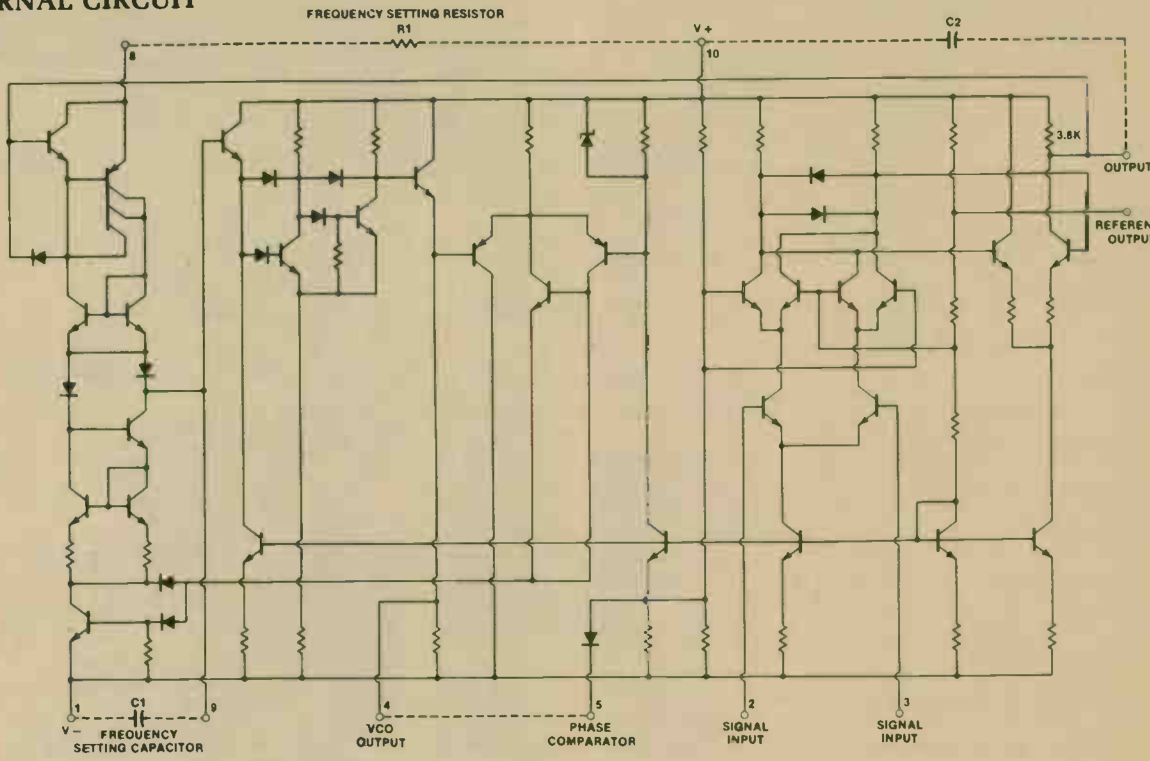
TEST CIRCUIT



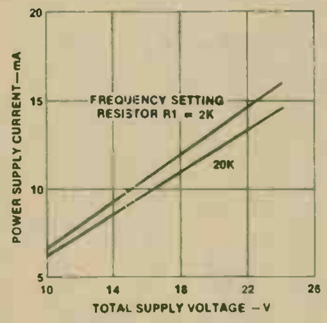
Test Circuit

565 276-1720

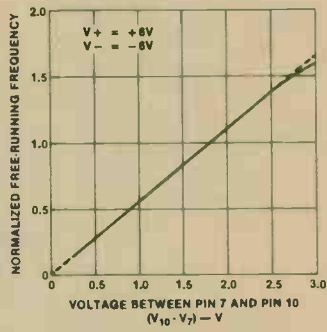
INTERNAL CIRCUIT



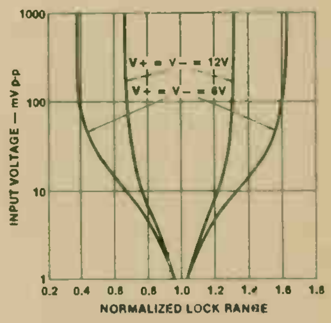
TYPICAL CHARACTERISTICS



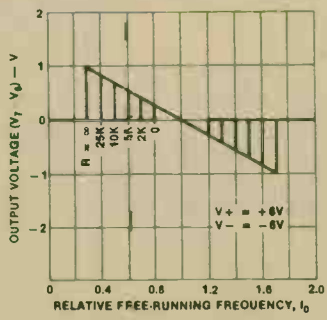
Power Supply Current vs Total Supply Voltage



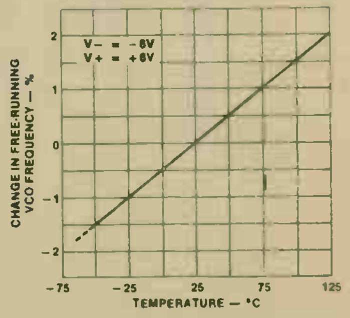
Normalized Free Running Frequency vs Voltage Between Pin 7 and Pin 10



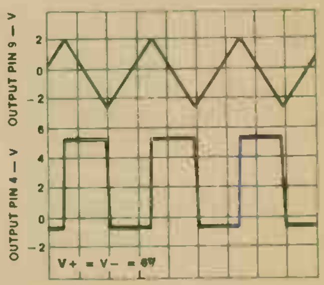
Input Voltage vs Normalized Lock Range



Output Voltage vs Relative Free Running Frequency



Change In Free-Running VCO Frequency vs Temperature



VCO Output Waveform

565 276-1720

TYPICAL APPLICATIONS

FM Demodulation

The 565 Phase Locked Loop is a general purpose circuit designed for highly linear FM demodulation. During lock, the average dc level of the phase comparator output signal is directly proportional to the frequency of the input signal. As the input frequency shifts, it is this output signal which causes the VCO to shift its frequency to match that of the input. Consequently, the linearity of the phase comparator output with frequency is determined by the voltage-to-frequency transfer function of the VCO.

Because of its unique and highly linear VCO, the 565 PLL can lock to and track an input signal over a very wide brandwidth (typically ±60%) with very high linearity (typically, within 0.5%).

A typical connection diagram is shown in Figure 1. The VCO free-running frequency is given approximately by

$$f_o = \frac{1.2}{4R1C1}$$

and should be adjusted to be at the center of the input signal frequency range. C1 can be any value, but R1 should be within the range of 2000 to 20,000 ohms with an optimum value on the order of 4000 ohms. The source can be direct coupled if the dc resistances seen from pins 2 and 3 are equal and there is no dc voltage difference between the pins. A short between pins 4 and 5 connects the VCO to the phase comparator. Pin 6 provides a dc reference voltage that is close to the dc potential of the demodulated output (pin 7). Thus, if a resistance is connected between pins 6 and 7, the gain of the output stage can be reduced with little change in the dc voltage level at the output. This allows the lock range to be decreased with little change in the free-running frequency. In this manner the lock range can be decreased from ±60% of f_o to approximately ±20% of f_o (at ±6V).

A small capacitor (typically 0.001 μF) should be connected between pins 7 and 8 to eliminate possible oscillation in the control current source.

A single-pole loop filter is formed by the capacitor C2, connected between pin 7 and the positive supply, and an internal resistance of approximately 3600 ohms.

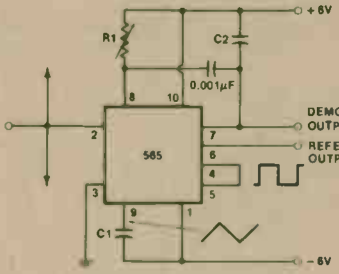


Figure 1 — FM Demodulation

Frequency Shift Keying (FSK)

FSK refers to data transmission by means of a carrier which is shifted between two preset frequencies. This frequency shift is usually accomplished by driving a VCO with the binary data signal so that the two resulting frequencies correspond to the "0" and "1" states (commonly called space and mark) of the binary data signal.

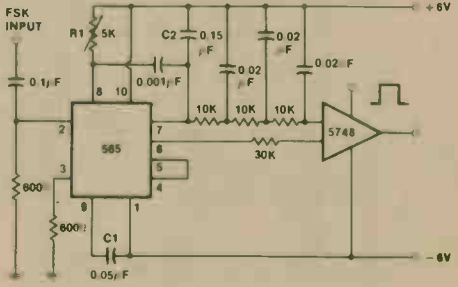


Figure 2 — Frequency Shift Keying (FSK)

SCA (Background Music) Decoder

Some FM stations are authorized by the FCC to broadcast uninterrupted background music for commercial use. To do this a frequency modulated subcarrier of 67kHz is used. The frequency is chosen so as not to interfere with the normal stereo or monaural program; in addition, the level of the subcarrier is only 10% of the amplitude of the combined signal.

The SCA signal can be filtered out and demodulated with the 565 Phase Locked Loop without the use of any resonant circuits.

A resistive voltage divider is used to establish a bias voltage for the input (pins 2 and 3). The demodulated (multiplex) FM signal is fed to the input through a two-stage high-pass filter, both to effect capacitive coupling and to attenuate the strong signal of the regular channel. A total signal amplitude, between 80mV and 300mV, is required at the input. Its source should have an impedance of less than 10,000 ohms.

The Phase Locked Loop is tuned to 67kHz with a 5000 ohm potentiometer, only approximate tuning is required, since the loop will seek the signal.

The demodulated output (pin 7) passes through a three-stage low-pass filter to provide de-emphasis and attenuate the high-frequency noise which often accompanies SCA transmission. Note that no capacitor is provided directly at pin 7; thus, the circuit is operating as a first-order loop. The demodulated output signal is in the order of 50mV and the frequency response extends to 7kHz.

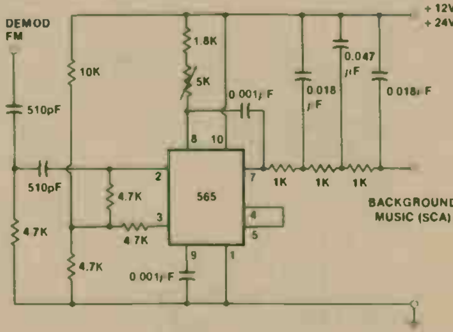


Figure 3 — SCA Decoder

TONE DECODER

567
276-1721

GENERAL DESCRIPTION

The 567 is a general purpose tone decoder designed to provide a saturated transistor switch to ground when an input signal is present within the passband. The circuit consists of an I and Q detector driven by a voltage controlled oscillator which determines the center frequency of the decoder. External components are used to independently set center frequency, bandwidth and output delay.

FEATURES

- 20 to 1 frequency range with an external resistor
- Logic compatible output with 100 mA current sinking capability
- Bandwidth adjustable from 0 to 14%
- High rejection of out of band signals and noise
- Immunity to false signals
- Highly stable center frequency
- Center frequency adjustable from 0.01 Hz to 500 kHz

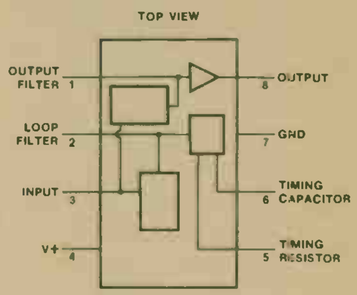
APPLICATIONS

- Touch tone decoding
- Precision oscillator
- Frequency monitoring and control
- Wide band FSK demodulation
- Ultrasonic controls
- Carrier current remote controls
- Communications paging decoders

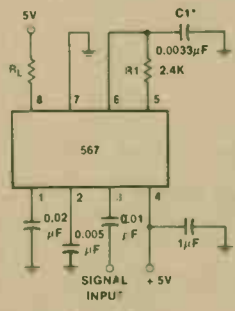
ABSOLUTE MAXIMUM RATINGS

Supply Voltage	9V
Power Dissipation	300 mW
V_8 (Output Voltage)	15V
V_3 (− Voltage at Input)	−10V
V_3 (+ Voltage at Input)	V_8 + 0.5V
Operating Temperature	0 to +70°C
Storage Temperature Range	−65 to +150°C

PIN CONNECTION



TYPICAL APPLICATIONS



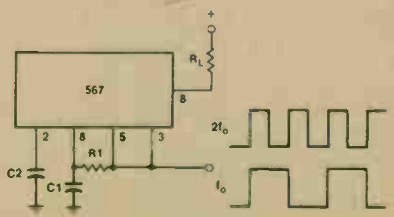
*Note: Adjust for f_o = 100kHz.
f_i = 100kHz +5V

The center frequency of the tone decoder is equal to the free-running frequency of the VCO.
This is given by $f_o \cong 1/R1C1$
The band width of the filter may be found from the approximation

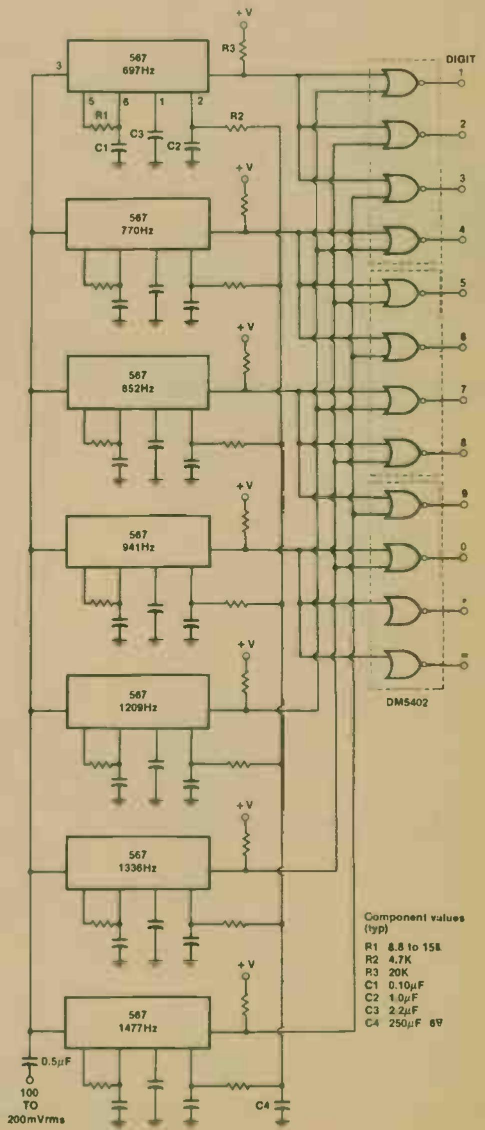
$$BW = 1070 \sqrt{\frac{V_{IN}}{f_o C2}} \text{ in \% of } f_o.$$

Where: V_{IN} = Input voltage (volts rms), $V_{IN} \leq 200mV$.
C2 = Capacitance at pin 2 in μF.

AC Test Circuit



Oscillator with Double Frequency Output



Component values (typ)
R1 6.8 to 15K
R2 4.7K
R3 20K
C1 0.10μF
C2 1.0μF
C3 2.2μF
C4 250μF 6V

Touch-Tone Decoder

3909
276-1705

LED FLASHER/OSCILLATOR

GENERAL DESCRIPTION

The 3909 is a monolithic oscillator specifically designed to flash light emitting diodes. By using the timing capacitor for voltage boost, it delivers pulses of 2 or more volts to the LED while operating on a supply of 1.5V or less. The circuit is inherently self-starting, and requires addition of only a battery and capacitor to function as a LED flasher.

It has been optimized for low power drain and operation from weak batteries so that continuous operation life exceeds that expected from battery rating.

Application is made simple by inclusion of internal timing resistors and an internal LED current limit resistor.

Timing capacitors will generally be of the electrolytic type, and a small 3V rated part will be suitable for any LED flasher using a supply up to 6V. However, when picking flash rates, it should be remembered that some electrolytics have very broad capacitance tolerances, for example −20% to +100%.

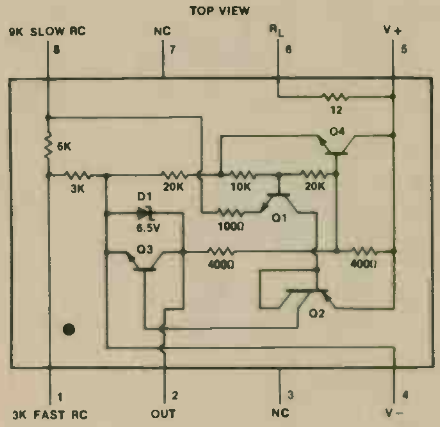
FEATURES

- Operation over one year from one C size flashlight cell
- Bright, high current LED pulse
- Minimum external parts
- Low voltage operation, from just over 1V to 5V
- Low current drain, averages under 0.5 mA during battery life
- Powerful; as an oscillator directly drives an 8Ω speaker

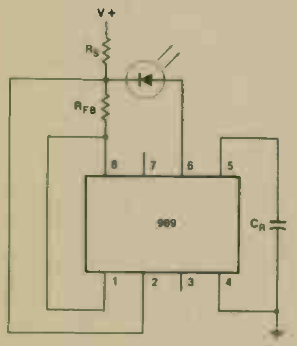
ABSOLUTE MAXIMUM RATINGS

Power Dissipation	500 mW
V+ Voltage	6.4V
Pulse Width	6 ms
Peak LED Current	45 mA
Operating Current	75 mA
Flash Frequency	1.3 Hz
High Flash Frequency	1.1 kHz
Operating Temperature Range	−25 to +70°C

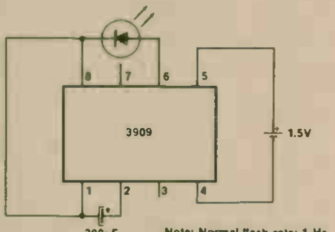
PIN CONNECTION



TYPICAL APPLICATIONS



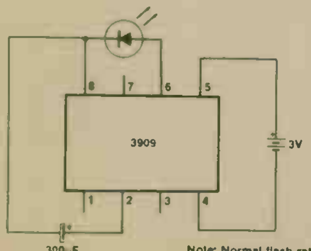
Warning Flasher High Voltage Powered



300µF
3V

Note: Normal flash rate: 1 Hz

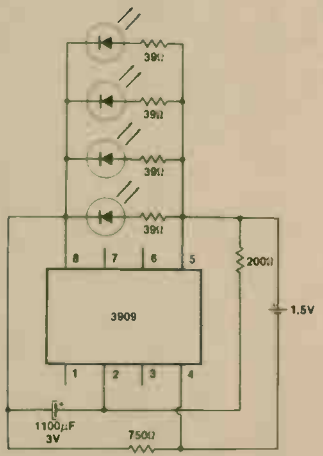
1.5V Flasher



300µF
3V

Note: Normal flash rate: 1Hz
Average I_{DRAIN} 0.77mA

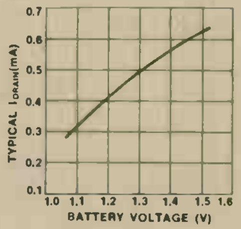
3V Flasher



Nominal flash rate: 1.3Hz Average I_{DRAIN} = 2mA

Parallel LED's

TYPICAL CHARACTERISTICS



Drain Current vs
Battery Voltage

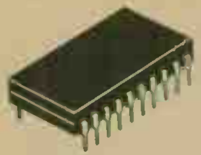
ESTIMATED BATTERY LIFE
(CONTINUOUS 1.5V FLASHER OPERATION)

SIZE CELL	TYPE	
	STANDARD	ALKALINE
AA	3 MONTHS	6 MONTHS
C	7 MONTHS	15 MONTHS
D	1.3 YEARS	2.6 YEARS

Note: Estimates are made from our tests and manufacturers data. Conditions are fresh batteries and room temperature. Clad or "leak-proof" batteries are recommended for any application of five months or more. Nickel Cadmium cells are not recommended.

TYPICAL OPERATING CONDITIONS

V+	NORMAL FLASH Hz	C_T	R_S 1W	R_{FB}	$V+_{RANGE}$
6V	2	400µF	1K	1.5K	5-25V
15V	2	180µF	3.9K	1K	13-50V
100V	1.7	180µF	43K	1K	85-200V



8-BIT MICROPROCESSOR COMPATIBLE A/D CONVERTER

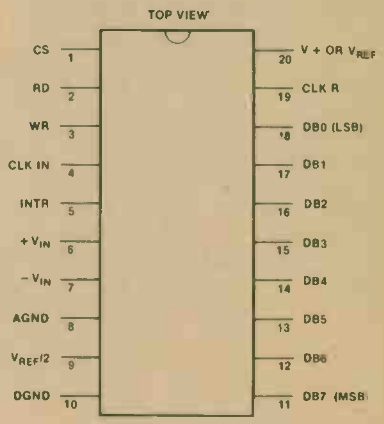
ADC0801
276-1792

GENERAL DESCRIPTION

The ADC0801 is a CMOS 8-bit successive approximation A/D converter which uses a modified potentiometric ladder and is designed to operate with the 8080A control bus via three-state outputs. This converter appears to the processor as memory locations or I/O ports, hence no interfacing logic is required.

The differential analog voltage input has good common-mode-rejection, and permits offsetting the analog zero-input-voltage value. In addition, the voltage reference input can be adjusted to allow encoding any smaller analog voltage span to the full 8 bits of resolution.

PIN CONNECTION



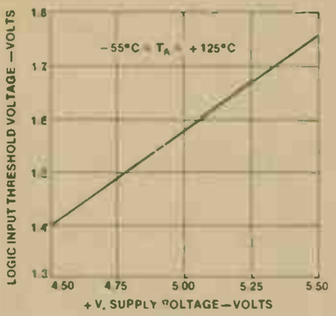
FEATURES

- MCS-48 and MCS-80/85 bus compatible — no interfacing logic required
- Conversion time <100μs
- Easy interface to all microprocessors
- Will operate "stand alone"
- Differential analog voltage inputs
- Works with bandgap voltage references
- TTL compatible inputs and outputs
- On-chip clock generator
- 0 to 5 V analog voltage input range (single +5 V supply)
- No zero-adjust required

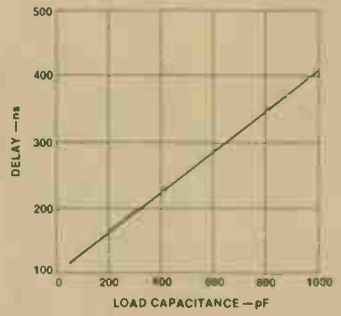
ABSOLUTE MAXIMUM RATINGS

Supply Voltage	6.5 V
Voltage at Any Input	−0.3 to +0.3 V
Storage Temperature Range	−65 to +150°C
Package Dissipation at T_A = +25°C	875 mW
Lead Temperature (Soldering, 10 seconds)	300°C

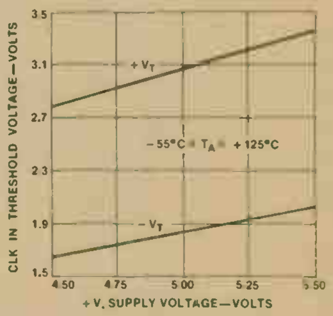
TYPICAL CHARACTERISTICS



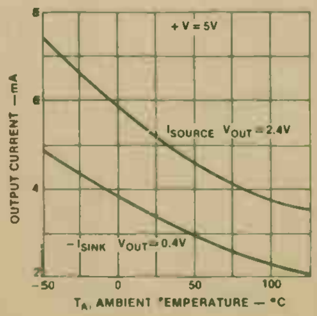
Logic Input Threshold Voltage vs Supply Voltage



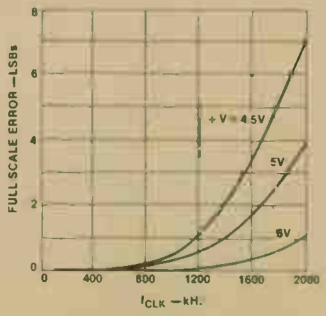
Delay from Falling Edge of RD to Output Data Valid vs Load Capacitance



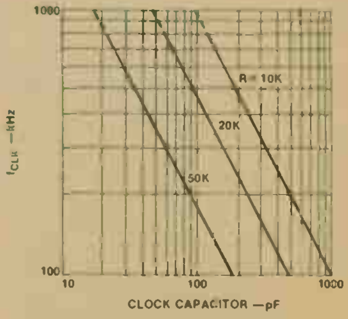
CLK IN Schmitt Trip Levels vs Supply Voltage



Output Current vs Ambient Temperature



Full-Scale Error vs Clock Frequency



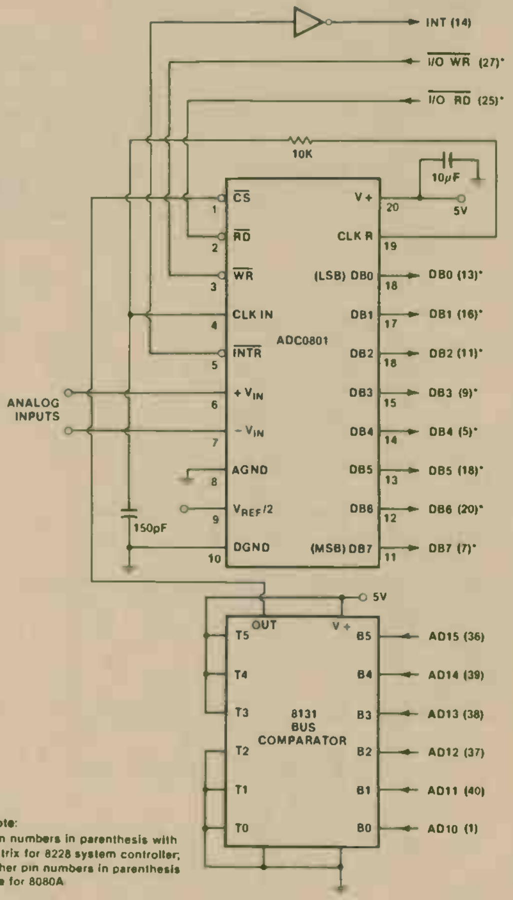
Clock Frequency vs Clock Capacitor

ADC0801 276-1792

TYPICAL APPLICATIONS

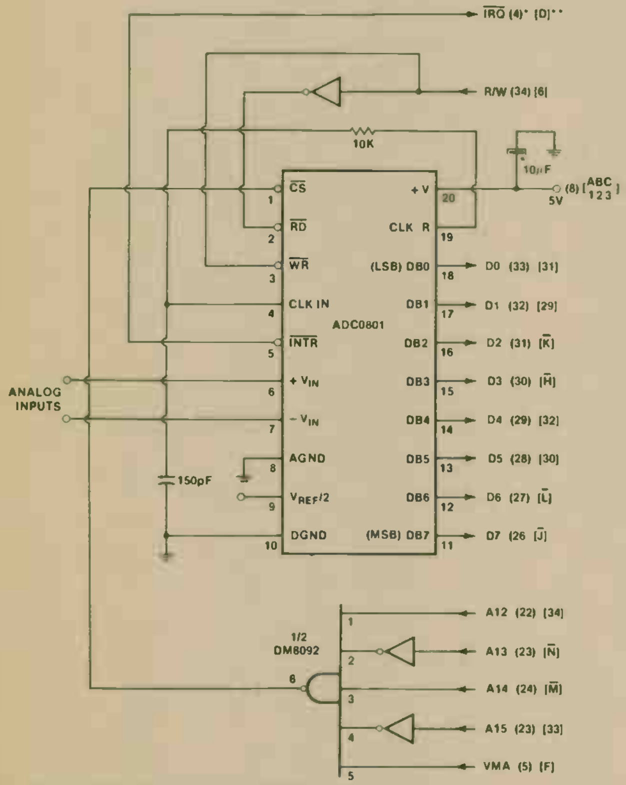
Interfacing MCS-48 and MSC-80/85 Processors

This converter has been designed to directly interface with an MCS-80/85 microprocessor or system. The 3-state output capability of the A/D eliminates the need for a peripheral interface device, although address decoding is still required to generate the appropriate $\overline{\text{CS}}$ for the converter. The A/D can be mapped into memory space (using standard memory-address decoding for $\overline{\text{CS}}$ and the $\overline{\text{MEMR}}$ and $\overline{\text{MEMW}}$ strobes) or it can be controlled as an I/O device by using the $\overline{\text{I/O R}}$ and $\overline{\text{I/O W}}$ strobes and decoding the address bits A0 - A7 (or address bits A8 - A15, since they will contain the same 8-bit address information) to obtain the $\overline{\text{CS}}$ input. Using the I/O space provides 256 additional addresses and may allow a simpler 8-bit address decoder, but the data can only be input to the accumulator. To make use of the additional memory reference instructions, the A/D should be mapped into memory space.



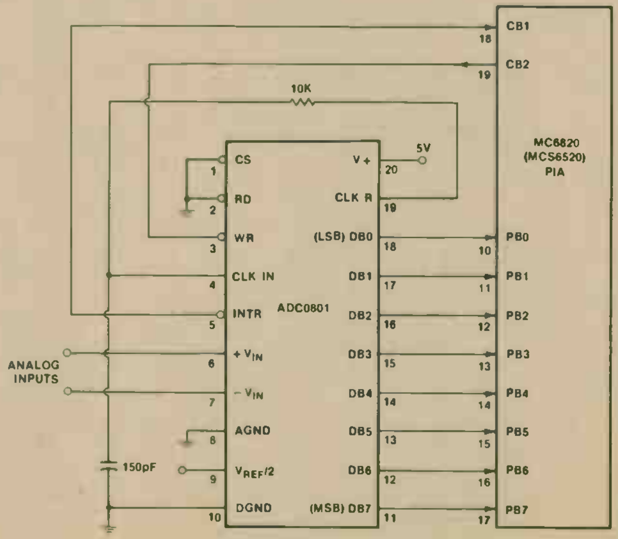
Note:
Pin numbers in parenthesis with astrix for 8228 system controller; other pin numbers in parenthesis are for 8080A.

ADC0801 to 8080A CPU Interface



*Note: Numbers in parenthesis refer to MC6800 CPU pin out.
** Note: Numbers and letters in brackets refer to standard MC6800 system common bus code.

ADC0801 to MC6800 CPU Interface



ADC0801 to MC6820 PIA Interface

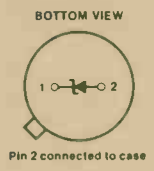
LOW VOLTAGE REFERENCE

ICL8069
276-1793

GENERAL DESCRIPTION

The ICL8069 is a 1.2 V temperature compensated voltage reference. It uses the band-gap principal to achieve excellent stability and low noise at reverse currents down to 50 μA. Applications include analog-to-digital converters, digital-to-analog converters, threshold detectors, and voltage regulators. Its low power consumption makes it especially suitable for battery operated equipment.

PIN CONNECTION



FEATURES

- Temperature coefficients guaranteed to 10 ppm/°C max.
- Low bias current . . . 50 μA min
- Low dynamic impedance
- Low reverse voltage
- Low cost

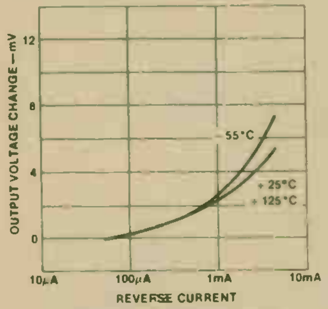
ABSOLUTE MAXIMUM RATINGS

Reverse Voltage (See Note 1)	1.25 V
Forward Current	10 mA
Reverse Current	10 mA
Power Dissipation	Limited by max forward/reverse current
Storage Temperature	− 65 to + 200°C
Operating Temperature	0 to + 70°C

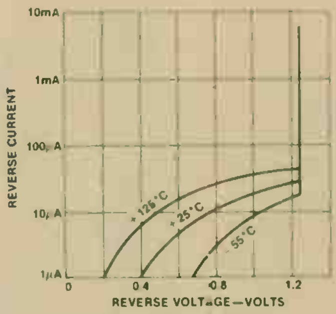
(1) In normal use, the reverse voltage cannot exceed the reference voltage. However when plugging units into a powered-up test fixture, an instantaneous voltage equal to the compliance of the test circuit will be seen. This should not exceed 20 V.

(2) The diode should not be operated with shunt capacitances between 200pF and 0.22 μF, as it may oscillate at some currents. If circuit strays in excess of 200pF are anticipated, a 4.7 μF shunt capacitor will ensure stability under all operating conditions.

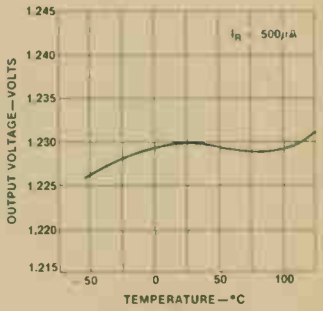
TYPICAL CHARACTERISTICS



Output Voltage Change vs Reverse Current

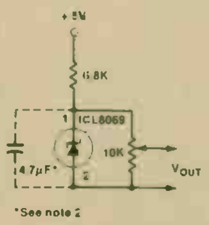


Reverse Current vs Reverse Voltage

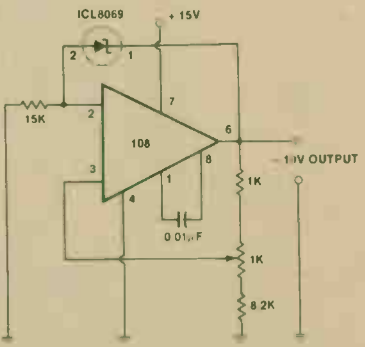


Output Voltage vs Temperature

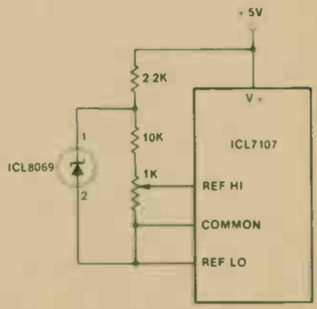
TYPICAL APPLICATIONS



Simple Reference (1.2 volts or less)



Buffered 10 V Reference Using a Single Supply



Double Regulated 100 mV Reference for ICL7107 One-Chip DPM Circuit

AY-3-1015
276-1794

UNIVERSAL ASYNCHRONOUS RECEIVER/TRANSMITTER

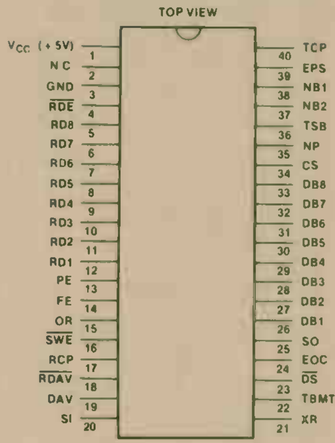
GENERAL DESCRIPTION

The Universal Asynchronous Receiver/Transmitter (UAR/T) is an LSI subsystem which accepts binary characters from either a terminal device or a computer and receives/transmits this character with appended control and error detecting bits. All characters contain a start bit, 5 to 8 data bits, one or two stop bits and either odd/even parity or no parity. In order to make the UAR/T universal, the baud, bits per word, parity mode, and the number of stop bits are externally selectable. The device is constructed on a single monolithic chip. All inputs and outputs are directly compatible with MTOS/MTNS logic, and also with TTL/DTL/CMOS logic without the need for interfacing components. All strobed outputs are three-state logic.

FEATURES

- DTL and TTL compatible — no interfacing circuits required — drives one TTL load
- Fully Double Buffered — eliminates need for system synchronization, facilitates high-speed operation
- Full Duplex Operation — can handle multiple bauds (receiving-transmitting) simultaneously
- Start Bit Verification — decreases error rate with center sampling
- Receiver center sampling of serial input; 48% distortion immunity
- High Speed Operation
- Three-State Outputs — bus structure capability
- Low Power — minimum power requirements
- Input Protected — eliminates handling problems
- GIANT P-channel nitride process
- 0 to 40kbaud
- Pull up resistors to V_{CC} on all inputs

PIN CONNECTION

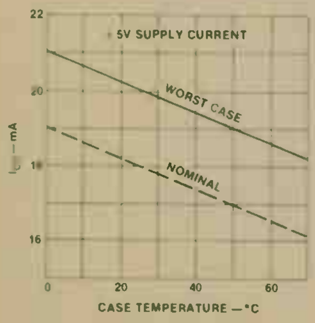


PIN	ABREVIATION	DESCRIPTION
1	V_{CC}	POWER SUPPLY
2	N C	
3	GND	GROUND
4	$\overline{\text{RDE}}$	RECEIVED DATA ENABLE
5 12	RD8 RD1	RECEIVED DATA BITS
13	PE	PARITY ERROR
14	FE	FRAMING ERROR
15	OR	OVER-RUN
16	$\overline{\text{SWE}}$	STATUS WORD ENABLE
17	RCP	RECEIVER CLOCK
18	$\overline{\text{RDAV}}$	RESET DATA AVAILABLE
19	DAV	DATA AVAILABLE
20	SI	SERIAL INPUT
21	XR	EXTERNAL RESET
22	TBMT	TRANSMITTER BUFFER EMPTY
23	$\overline{\text{DS}}$	DATA STROBE
24	EOC	END OF CHARACTER
25	SO	SERIAL OUTPUT
26-33	DB1 DB8	DATA BIT INPUTS
34	CS	CONTROL STROBE
35	NP	NO PARITY
36	TSB	NUMBER OF STOP BITS
37 38	NB2,NB1	NUMBER OF BITS/CHARACTER
39	EPS	ODD/EVEN PARITY SELECT
40	TCP	TRANSMITTER CLOCK

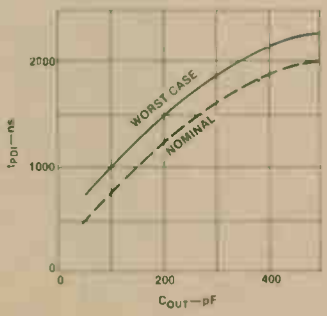
ABSOLUTE MAXIMUM RATINGS

V_{GG} (with respect to V_{CC}) . . . . −20 to +0.3 V
Clock and logic input voltages (with respect to V_{CC}) . . . . −20 to +0.3 V
Lead Temperature (soldering, 10 seconds) . . . . +330°C
Storage Temperature . . . . −65°C to +150°C

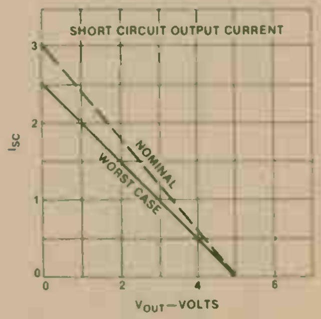
TYPICAL CHARACTERISTICS



5 V Supply Current vs Case Temperature



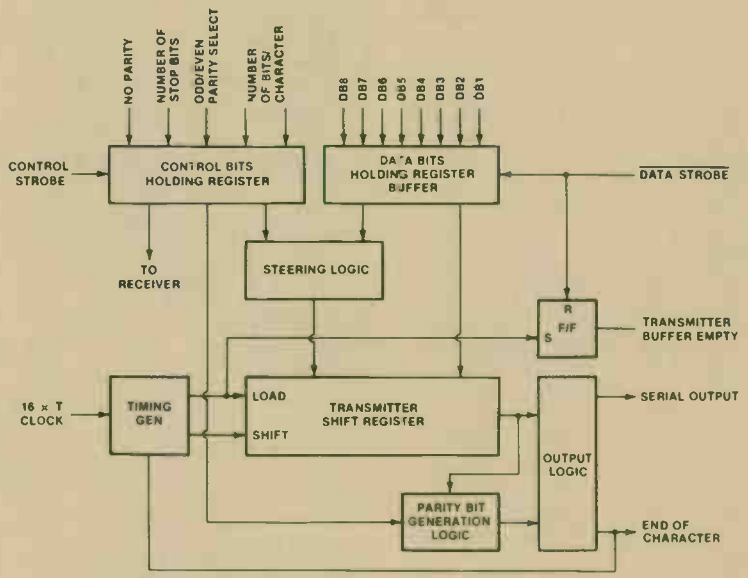
Delay Time vs Output Capacitance



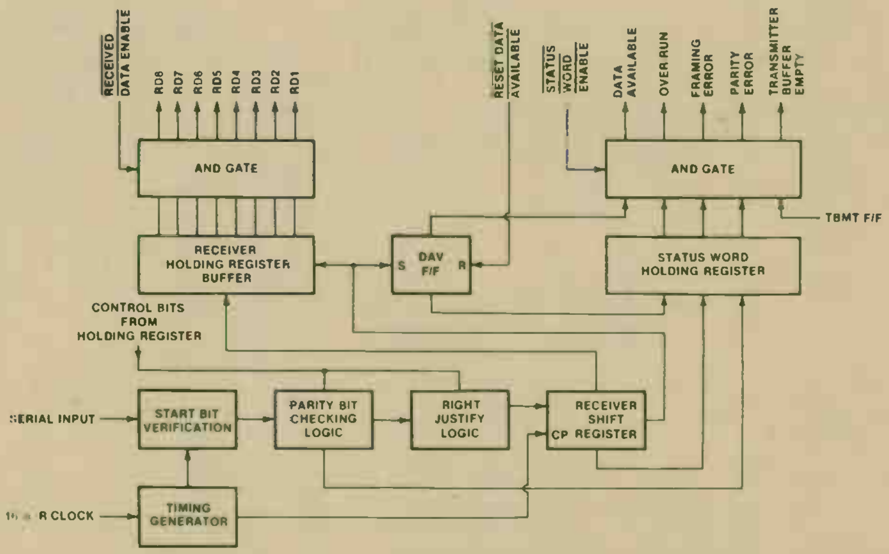
Short Circuit Output Current vs Output Voltage

AY-3-1015 276-1794

TRANSMITTER BLOCK DIAGRAM

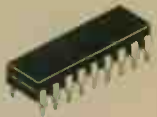


RECEIVER BLOCK DIAGRAM



AY-5-8116
276-1795

DUAL BAUD RATE GENERATOR



GENERAL DESCRIPTION

The AY-5-8116 is a very versatile Dual Buad Rate Generator.

This device is designed to generate the full spectrum of 16 asynchronous/synchronous date communication frequencies for use with 16× UART/USRT devices. An on-chip crystal oscillator available on the 8116 is capable of providing a master reference frequency. Alternatively, complimentary TTL level clock signals can be input to pins 1 and 18. When using TTL outputs to drive the XTAL/EXT inputs, they should not be used to drive other TTL inputs due to excessive loading which may result in a reduction of noise immunity. Dividers are used on the output of the oscillator/buffer which generate the output frequencies f_T and f_R. These dividers can divide any integer from 6 to $2^{19} + 1$, inclusive. When using an even divisor, the output will be square; an odd divisor will cause output to be high longer than it is low by one clock period (f_x).

The 8116 allows generation of other frequencies with the use of its two divisor ROMs which contain 16 divisors, each 19 bits wide, allowing for up to 32 different divisors on custom parts.

Externally strobed data latches are used to hold the divisor select bits, R_A-R_D and T_A-T_D. The strobe inputs, STR or STT, allow data to pass directly through the data latch when in the high state. A new frequency is initiated within 3.5 µsec of a change in any of the four divisor select bits read by the device. Pull-up resistors are provided on the divisor select inputs while are not present on the strobe inputs.

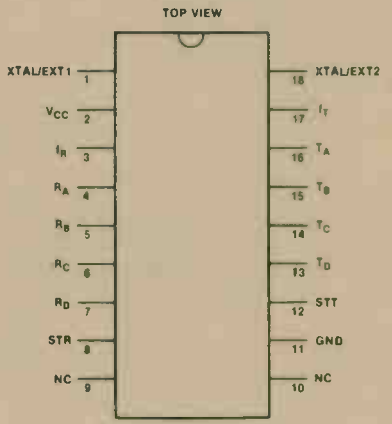
FEATURES

- Single +5V power supply
- On-chip crystal oscillator or external frequency input
- Direct compatibility with UART/USRT
- Dual selectable 16× clock outputs
- Reprogrammable ROM allowing generation of non-standard frequencies
- TTL, MOS compatibility

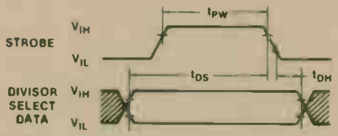
PIN FUNCTIONS

Pin. No.	Signal	Function
1	XTAL/EXT1	Input is either one pin of the crystal package or one polarity of the external input.
2	V_{CC}	Positive power supply—normally +5V.
3	f_R	This output runs at a frequency selected by the Receiver divisor select data bits.
4-7	R_A, R_B, R_C, R_D	These inputs, as shown in Table 1, select the receiver output frequency f_R.
8	STR	A high level input strobe loads the received data (R_A, R_B, R_C, R_D) into the receiver divisor select register. This input may be strobed or hard-wired to a high level.
9	NC	NC
10	NC	NC
11	GND	Ground
12	STT	A high level input strobe loads the transmitter data (T_A, T_B, T_C, T_D) into the transmitter divisor select register. This input may be strobe or hard-wired to a high level.
13-16	T_D, T_C, T_B, T_A	These inputs, as shown in Table 1, select the transmitter output frequency, f_T.
17	f_T	This output runs at a frequency selected by the transmitter divisor select data bits.
18	$XTAL/EXT_2$	Input is either one pin of the crystal package or one polarity of the external input.

PIN CONNECTION



TIMING DIAGRAM



AY-5-8116 276-1795

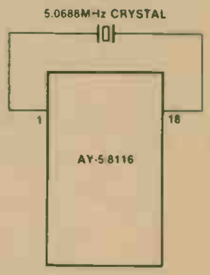
ABSOLUTE MAXIMUM RATINGS

Positive Voltage on any Pin, with Respect to Ground .... +8.0V
Negative Voltage on any Pin, with Respect to Ground .... −0.3V
Power Supply Current, I_{CC} 50mA
Operating Temperature Range .... 0 to +70°C
Storage Temperature Range .... −55 to +150°C

AC CHARACTERISTICS

Clock Frequency f_x (XTAL/EXT, 50% Duty Cycle ±5%) .... 5.1 MHz
Strobe Pulse Width, t_{PW} .... 150 ns
Input Set-up Time, t_{DS} .... 200 ns
Input Hold Time t_{DH} .... 50 ns
Strobe to new Frequency Delay (@f_x = 5.0 MHz) .... 3.5 µs

CRYSTAL OPERATION



Crystal Operation

TABLE 1

REFERENCE FREQUENCY = 5.068800MHz

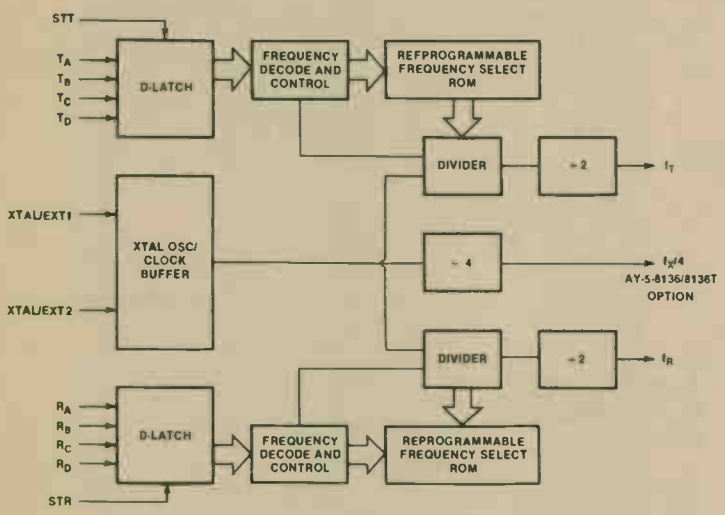
Divisor Select DCBA	Desired Baud Rate	Clock Factor	Desired Frequency (kHz)	Divisor	Actual Baud Rate	Actual Frequency (kHz)	Deviation
0000	50.00	16×	0.80000	6336	50.00	0.800000	0.0000%
0001	75.00	16×	1.20000	4224	75.00	1.200000	0.0000%
0010	110.00	16×	1.76000	2880	110.00	1.760000	0.0000%
0011	134.50	16×	2.15200	2355	134.52	2.152357	0.0166%
0100	150.00	16×	2.40000	2112	150.00	2.400000	0.0000%
0101	300.00	16×	4.80000	1058	300.00	4.800000	0.0000%
0110	600.00	16×	9.60000	528	600.00	9.600000	0.0000%
0111	1200.00	16×	19.20000	264	1200.00	19.200000	0.0000%
1000	1800.00	16×	28.80000	176	1800.00	28.800000	0.0000%
1001	2000.00	16×	32.00000	158	2005.06	32.081013	0.2532%
1010	2400.00	16×	38.40000	132	2400.00	38.400000	0.0000%
1011	3600.00	16×	57.60000	88	3600.00	57.600000	0.0000%
1100	4800.00	16×	76.80000	66	4800.00	76.800000	0.0000%
1101	7200.00	16×	115.20000	44	7200.00	115.200000	0.0000%
1110	9600.00	16×	153.60000	33	9600.00	153.600000	0.0000%
1111	19200.00	16×	307.20000	16	19800.00	316.800000	3.1250%

REFERENCE FREQUENCY = 4.915200MHz

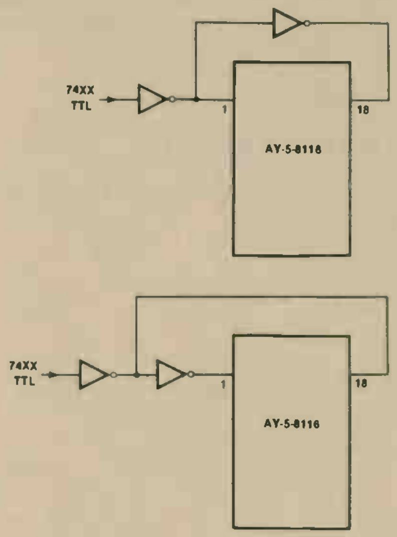
Divisor Select DCBA	Desired Baud Rate	Clock Factor	Desired Frequency (kHz)	Divisor	Actual Baud Rate	Actual Frequency (kHz)	Deviation
0000	50.00	16×	0.80000	6144	50.00	0.800000	0.0000%
0001	75.00	16×	1.20000	4096	75.00	1.200000	0.0000%
0010	110.00	16×	1.76000	2793	109.93	1.758983	0.0100%
0011	134.50	16×	2.15200	2284	134.50	2.152000	0.0000%
0100	150.00	16×	2.40000	2048	150.00	2.400000	0.0000%
0101	300.00	16×	4.80000	1024	300.00	4.800000	0.0000%
0110	600.00	16×	9.60000	512	600.00	9.600000	0.0000%
0111	1200.00	16×	19.20000	256	1200.00	19.200000	0.0000%
1000	1800.00	16×	28.80000	171	1796.49	28.743859	0.1949%
1001	2000.00	16×	32.00000	154	1994.81	31.916883	0.2597%
1010	2400.00	16×	38.40000	128	2400.00	32.000000	0.0000%
1011	3600.00	16×	57.60000	85	3614.11	57.825882	0.3921%
1100	4800.00	16×	76.80000	64	4800.00	76.800000	0.0000%
1101	7200.00	16×	115.20000	43	7144.19	114.306976	0.7751%
1110	9600.00	16×	153.60000	32	9600.00	153.600000	0.0000%
1111	19200.00	16×	307.20000	16	19200.00	307.200000	0.0000%

AY-5-8116 276-1795

BLOCK DIAGRAM



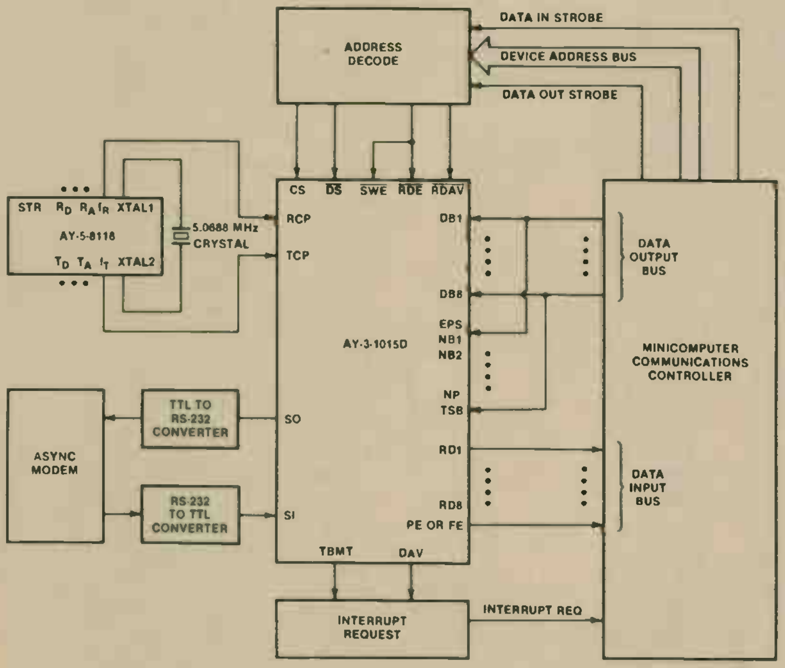
EXTERNAL INPUT OPERATION



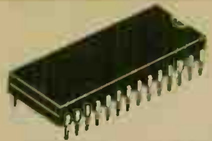
74XX-totem pole or open collector output (external pull-up resistor required)

External Input Operation

TYPICAL APPLICATION



Minicomputer Interface
AY-3-1015D UAR/T + AY-5-8116
Dual Baud Rate Generator



TUNES SYNTHESIZER

AY-3-1350

276-1782

GENERAL DESCRIPTION

The AY-3-1350 is an N-channel MOS microcomputer based synthesizer of pre-programmed tunes for applications in toys, musical boxes, and doorchimes. The standard device has a set of 25 different popular and classical tunes chosen for their international acceptance. In addition there are 3 chimes making a total of 28 tunes.

The chip is mask-programmable during manufacture enabling the quantity user to select his own music. Up to 28 tunes of varying length can be chosen.

The device has multi-mode operation making it suitable for a wide variety of applications.

FEATURES

- 25 different tunes plus 3 chimes
- Mask programmable with customer specified tunes for toys, musical boxes, etc.
- Minimal external components
- Automatic switch-off signal at end of tune for power savings
- Envelope control to give organ or piano quality
- Sequential tune mode
- 4 door capability when used as doorchime
- Operation with tunes in external PROM if required
- Single supply (+5V) operation

TUNES

The standard AY-3-1350 contains the following tunes:

A0	Toreador	A3	O Sole Mio
B0	William Tell	B3	Santa Lucia
C0	Hallelujah Chorus	C3	The End
D0	Star Spangled Banner	D3	Blue Danube
E0	Yankee Doodle	E3	Brahms' Lullaby
A1	John Brown's Body	A4	Hell's Bells
B1	Clementine	B4	Jingle Bells
C1	God Save the Queen	C4	La Vie en Rose
D1	Colonel Bogey	D4	Star Wars
E1	Marseillaise	E4	Beethoven's 9th
A2	America America		
B2	Deutschland Leid		
C2	Wedding March	Chime X Westminster Chime	
D2	Beethoven's 5th	Chime Y Simple Chime	
E2	Augustine	Chime Z Descending Octave Chime	

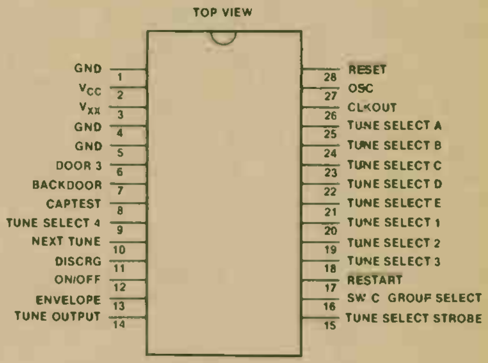
ABSOLUTE MAXIMUM RATINGS

Primary Supply Voltage, V_{DD}	7V
Output Buffer Supply Voltage, V_{XX}	9V
Primary Supply Current (No Load), I_{DO}	55mA
Output Buffer Supply Current (No Load), I_{XX}	5mA
Logic Input Low Voltage, V_{IL}	0.8V
Logic Input High Voltage (Note 2), V_{IH1} (Except RESET and OSC when driven externally)	V_{DD}V
Logic Input High Voltage, V_{IH2} (RESET and OSC)	V_{DD}V
Logic Output High Voltage (Note 2), V_{OH}($I_{OH} = 100\mu A$)	2.4V
Logic Output Low Voltage, V_{OL} ($I_{OL} = 1.6\mu A$, $V_{XX} = 4.5V$)	0.45V
($I_{OL} = 5mA$, $V_{XX} = 9V$)	0.90V
($I_{OL} = 5mA$, $V_{XX} = 9V$)	0.50V
($I_{OL} = 10mA$, $V_{XX} = 9V$) (Note 1)	0.90V
Operating Temperature	0 to 70°C

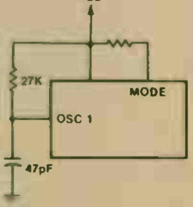
Notes: 1. Total I_{OL} for all registers must be less than 150mA under any conditions.

2. Except following pins which have open drain outputs/inputs: 6, 7, 8, 12 and 13.

PIN CONNECTION



TEST CIRCUIT



Test Circuit

AY-3-1350 276-1782

TYPICAL APPLICATIONS

Implementation

There are many ways to connect the standard device depending on the exact application. Figure 1 shows just one implementation of the device in a doorchime. This circuit gives access to all 25 tunes from switch A and one of 5 tunes from switch C as well as the descending active chime from switch B. The tune selected for switch B follows the tunes list according to the setting of the two tune select switches (A-E and 0-4). The tune selected from switch C in Figure 1 is one of the five tunes A0 through E0 depending on the setting of the letter switch. For example, with the letter switch set at E and the number switch set at 4, the tunes available will be:

Switch A: Beethoven's 9th (E4)
Switch C: Yankee Doodle (EO)
Switch B: Descending Octave Chime (Chime Z)

When the letter switch is in position F there will be chimes on all doors independent of the number switch setting as follows:

Switch A: Westminster Chime
Switch C: Simple Chime
Switch B: Descending Octave Chime

There is virtually no power consumption in the standby condition (external transistor leakages only). When any door switch is activated the circuit powers up, plays a tune, and then automatically powers down again to conserve the battery, even if the operator keeps his finger on the switch to the end of the tune. He must release it and re-press to play again with the circuit in Figure 1. Activating any of the door switches will pull point A to ground turning on the PNP transistor in the power supply line. This causes +5V to be applied to the AY-3-1350 and the first operation of the chip is to put ON/OFF (pin 12) to logic 0. This maintains the power through the PNP, even after the switch is released. The device can turn off its own power at the end of a tune by raising ON/OFF to logic 1.

Figure 1 shows only a typical one-chip implementation. Further options come from use of different switching and/or from use of the next tune facilities built into the chip. These will now be considered in turn.

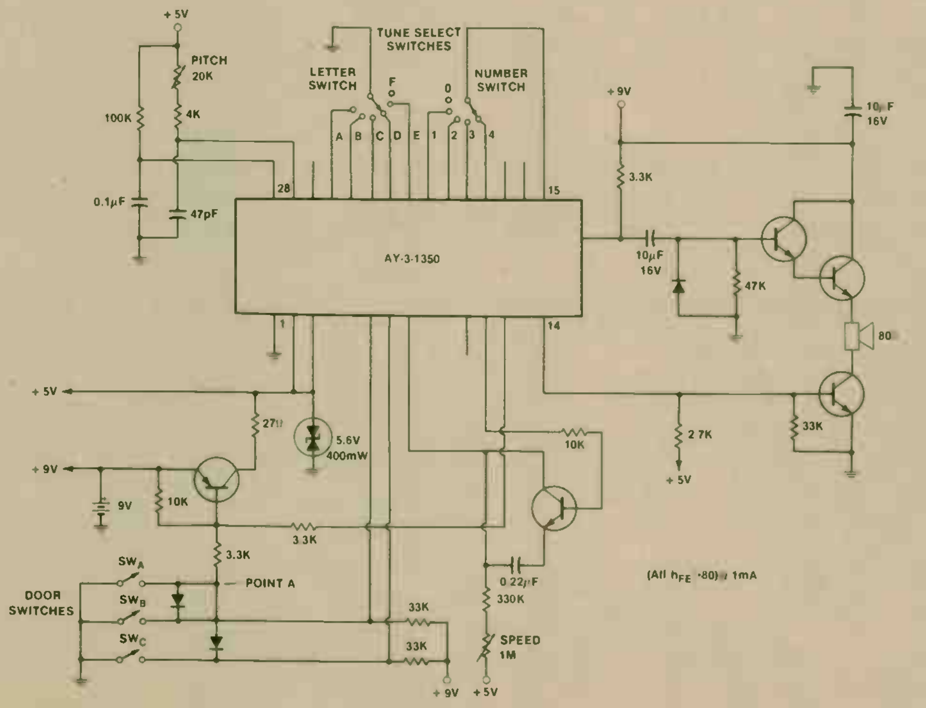


Figure 1—System Diagram

TYPICAL APPLICATIONS (Cont'd)

Switching Options

In Figure 1 the Switch C Group Select pin (16) is not connected, and one of the five tunes (A0 through E0) will play if switch C is activated. Other number groups can be chosen by connecting the Switch C Group Select pin as follows:

Switch C Group Select pin (16) is connected to:	Switch C Tunes
no other pin	A0-E0
Tune Select 1 (pin 20)	A1-E1
Tune Select 2 (pin 19)	A2-E2
Tune Select 3 (pin 18)	A3-E3
Tune Select 4 (pin 9)	A4-E4

Which of the five possible switch C tunes will be played depends on the current setting of the LETTER SWITCH A-E.

Switch C selection can be made by hard-wire connection for a permanent selection or a third switch can be added for an additional group selection feature.

LED Direct Drive

V_{XX} drives the gate of the output buffer, allowing adjustment of drive capability:

V_{XX}	V_{OUT}	I_{SINK} (typ.)
5V	0.4V	2.5mA
5V	0.7V	4.2mA
10V	0.4V	5.8mA
10V	0.7V	10.0mA
10V	1.0V	14.1mA

Using the power-up circuit of Figure 1, the AY-3-1350 will have +5V applied and be latched within a few microseconds (dependant upon external components) from any bell-push closing. The device starts to operate when the RESET pin reaches logic 1 (about 10ms with components shown) but in fact the tune select switches are not interrogated until approximately 6 ms later. The total is sufficient for most bell-pushes to complete any bounce period and for a firm selection of tunes to be made.

Next Tune Facilities

At the end of tune play the circuit of Figure 1 powers down because ON/OFF (pin 12) is raised to a logic 1. This simplified flow diagram in Figure 3 shows that before the power down there is a test for connection between NEXT TUNE (pin 10) then RESTART (pin 17) with TUNESELECT 4 (pin 9). At this time NEXT TUNE (pin 10) then RESTART (pin 17), which is normally at logic 1, output a logic 0. This is looked for at input TUNESELECT 4 (pin 9). If neither is found the power down system is reached as in Figure 1.

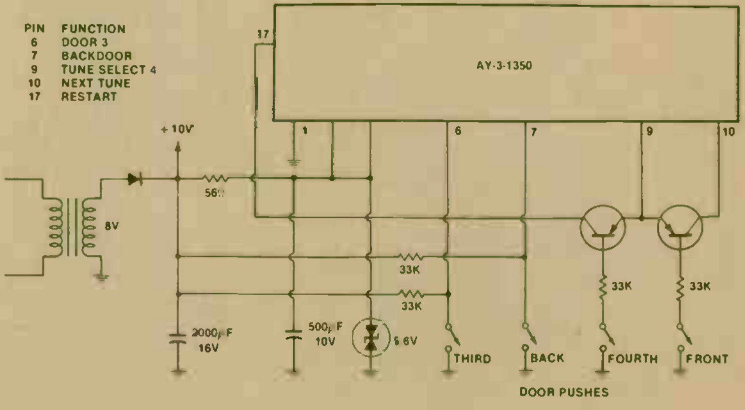


Figure 2

AY-3-1350 276-1782

TYPICAL APPLICATIONS (Cont'd)

A NEXT TUNE (pin 10)—TUNE SELECT 4 (pin 9) connection at the moment of test causes the next tune in the list to be played after a short pause (equal to a musical breve—the actual time depends on the setting of the tune speed control). The order of the tunes is A0 to E4 as given in the listing of standard AY-3-1350 tunes. If the last tune (E4) was played then the circuit will go on to play the first tune A0 (and then successive ones). The chimes are not included in the cycling sequence.

A RESTART (pin 17)—TUNESELECT 4 (pin 9) connection at the moment of test at the end of a tune causes the same selected tune to be played again. Figure 3 shows that in this case the tune sensing mechanism is passed through once more so the tune would be different the second time if the switches were altered while the first tune was playing.

The connections referred to cannot be permanent because otherwise the circuit would never stop playing tunes. Figure 2 shows how transistors are used to make the connection in a practical application.

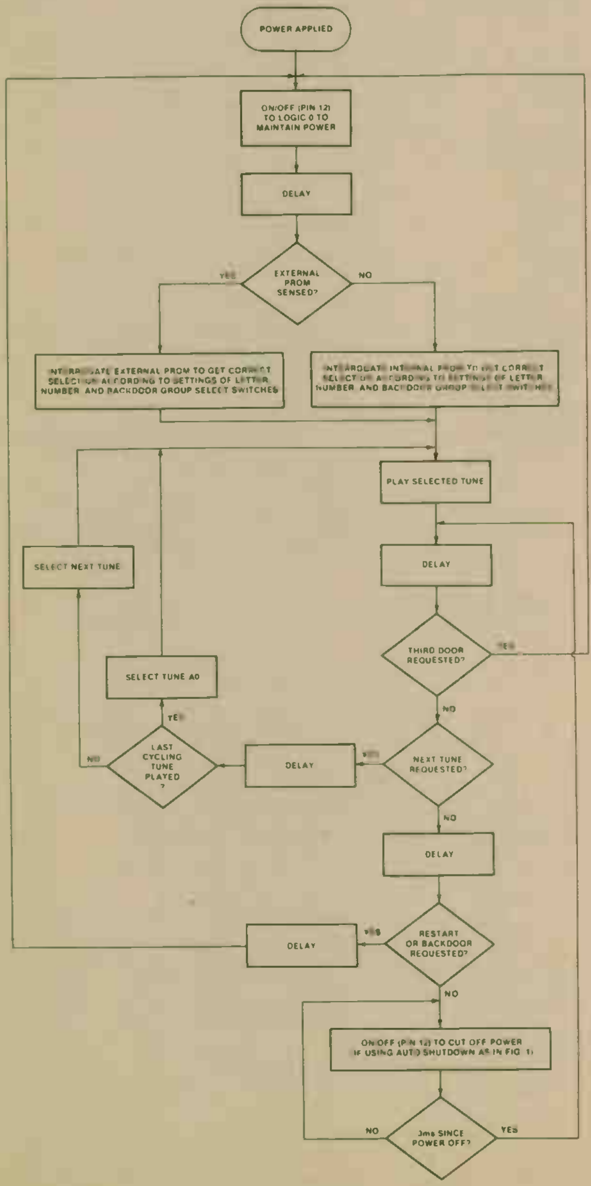
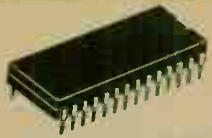

POWER APPLIED
ON/OFF (PIN 12) TO LOGIC 0 TO MAINTAIN POWER
DELAY
EXTERNAL PROM SENSED?
YES
NO
INTERROGATE EXTERNAL PROM TO GET CORRECT SELECTION ACCORDING TO SETTINGS OF LETTER NUMBER AND BACKDOOR GROUP SELECT SWITCHES
INTERROGATE INTERNAL PROM TO GET CORRECT SELECTION ACCORDING TO SETTINGS OF LETTER NUMBER AND BACKDOOR GROUP SELECT SWITCHES
PLAY SELECTED TUNE
SELECT NEXT TUNE
DELAY
THIRD DOOR REQUESTED?
YES
NO
SELECT TUNE A0
YES
NO
LAST CYCLING TUNE PLAYED ?
DELAY
YES
NEXT TUNE REQUESTED?
NO
DELAY
DELAY
YES
RESTART OR BACKDOOR REQUESTED?
NO
ON/OFF (PIN 12) TO CUT OFF POWER IF USING AUTO SHUTDOWN AS IN FIG. 1)
NO
3ms SINCE POWER OFF?
YES

Figure 3—Flow Diagram



SPEECH PROCESSOR

SP0256
276-1783

GENERAL DESCRIPTION

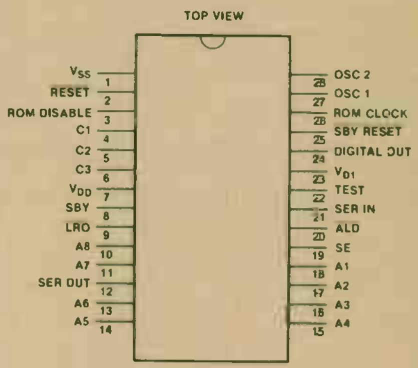
The SP0256 (speech processor) is a single chip N-channel MOS LSI device that is able, using its stored program, to synthesize speech or complex sounds.

The achievable output is equivalent to a flat frequency response ranging from 0 to 5kHz, a dynamic range of 42dB, and a signal to noise ratio of approximately 35dB.

The SP0256 incorporates four basic functions:

1. A software programmable digital filter that can be made to model a VOCAL TRACT.
2. A 16K ROM which stores both data and instructions (THE PROGRAM).
3. A MICROCONTROLLER which controls the data flow from the ROM to the digital filter, the assembly of the "word strings" necessary for linking speech elements together, and the amplitude and pitch information to excite the digital filter.
4. A PULSE WIDTH MODULATOR that creates a digital output which is converted to an analog signal when filtered by an external low pass filter.

PIN CONNECTION



FEATURES

- Natural speech
- Stand alone operation with inexpensive support components
- Wide operating voltage
- Word, phrase, or sentence library, ROM expandable
- Expandable to 491K of ROM directly
- Simple interface to most microcomputers or microprocessors
- Supports L.P.C. synthesis: formant synthesis: allophone synthesis

PIN FUNCTIONS

Pin Number	Name	Function
1	V_{SS}	Ground
2	RESET	A logic 0 resets the SP. Must be returned to a logic 1 for normal operation.
3	ROM DISABLE	For use with an external serial speech ROM. A logic 1 disables the external ROM.
4,5,6	C1, C2, C3	Output control lines used by an external serial speech ROM.
7	V_{DD}	Primary power supply.
8	SBY	STANDBY. A logic 1 output indicates that the SP is inactive (i.e., not talking) and V_{DD} can be powered down externally to conserve power. When the SP is reactivated by an address being loaded, SBY will go to a logic 0.
9	LRQ	LOAD REQUEST. LRQ is a logic 1 output whenever the Input buffer is full. When LRQ goes to a logic 0, the input port is loaded by placing the 8 address bits on A1-A8 and pulsing the ALD Input.
10,11,13,14, 15,16,17,18	A8, A7, A6, A5, A4, A3, A2, A1	8-bit address which defines any one of 256 speech entry points.
12	SER OUT	SERIAL ADDRESS OUT. This output transfers a 16-bit address serially to an external speech ROM.
19	SE	STROBE ENABLE. Normally held in logic 1 state. When tied to ground, ALD is disabled and the SP will automatically latch in the address on the input bus approximately 1μs after detecting a logic 1 on any address line.
20	ALD	ADDRESS LOAD. A negative pulse on this input loads the 8 address bits into the input port. The leading edge of this pulse causes LRQ to go high.
21	SER IN	SERIAL IN. This is an 8-bit serial data input from an external speech ROM.
22	TEST	A logic 1 places the SP in test mode. This pin should normally be grounded.
23	V_{D1}	Standby power supply for the interface logic and controller.
24	DIGITAL OUT	Pulse width modulated digital speech output which, when filtered by a 5kHz low pass filter and amplified, will drive a loudspeaker.
25	SBY RESET	STANDBY RESET. A logic 0 resets the interface logic. Normally should be a logic 1.
26	ROM CLOCK	1.56MHz clock for an external serial speech ROM.
27	OSC 1	XTAL IN. Input connection for a 3.12 MHz crystal.
28	OSC 2	XTAL OUT. Output connection for a 3.12MHz crystal.

SP0256 276-1783

APPLICATIONS

- Telecommunications
- Appliances
- Computer peripherals
- Automotive
- Personal computers
- Toys/games
- Educational aids
- Warning systems
- Security systems
- Electronic musical instruments
- Aids to the blind
- Narrow bandwidth
- Communication systems

ABSOLUTE MAXIMUM RATINGS

DC CHARACTERISTICS

Primary Supply Voltage, V_{DD} 7V
Standby Supply Voltage, V_{D1} 7V
Primary Supply Current, I_{DD} 90mA

Inputs

A1-A8, $\overline{\text{ALD}}$, SERIN, TEST, SE
  Logic 0, V_{IL} 0.6V
  Logic 1, V_{IH} .... V_{D1}V
  Capacitance, C_{IN} 10pF
  Leakage, I_{LC} .... ±10μA

$\overline{\text{Reset}}$, $\overline{\text{SBY Reset}}$
  Logic 0, V_{IL1} 0.6V
  Logic 1, V_{IH1} .... V_{D1}V

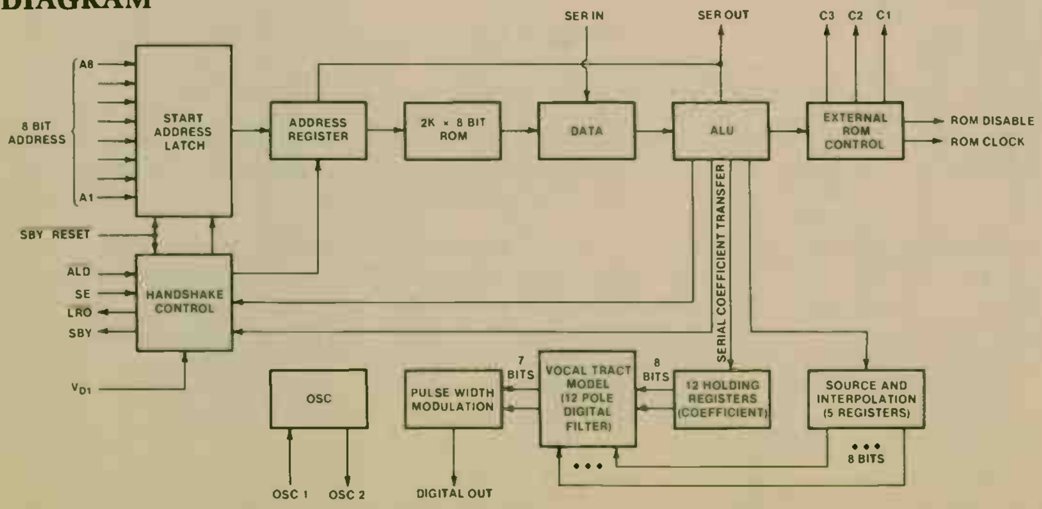
Outputs

SBY, DIGITAL OUT, C1, C2, C3, $\overline{\text{LRQ}}$, ROM DISABLE, ROM CLOCK, SER OUT
  Logic 0, Vol [0.72mA(2 LS TTL Loads)] 0.6V
  Logic 1, V_{OM} [-50μA (2 LS TTL Loads)] .... V_{D1}V

AC CHARACTERISTICS

Clock Frequency (Crystal) .... 3.120 MHz
$\overline{\text{Reset}}$, $\overline{\text{SBY Reset}}$ (t_{pw1}) .... 100 μs
$\overline{\text{ALD}}$ (< 800ns) (t_{pw2}) .... 200 ns
  A1-A8 Set Up (t_{s2}) .... 160 ns
  A1-A8 Hold (t_{h2}) .... 160 ns
$\overline{\text{ALD}}$ (≥800ns) (t_{pw3}) .... 800 ns
  A1-A8 Set Up (t_{s3}) .... 0 ns
  A1-A8 Hold (t_{h3}) .... 1200 ns
$\overline{\text{LRQ}}$ (t_{pd0}) .... 640 ns
SBY (t_{pd0}) .... 640 ns
Operating Temperature, T_A .... 0 to 70°C

BLOCK DIAGRAM



SP0256 276-1783

HOUSE TALKING CLOCK SP0256 #2 VOCABULARY LIST

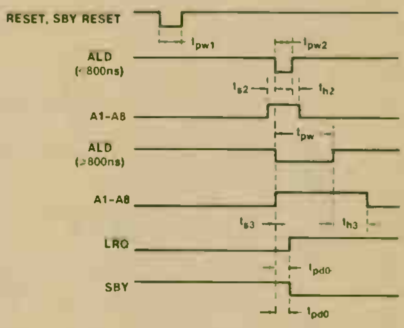
ADDRESS	WORD	ADDRESS	WORD
0	OH	18	EIGHTEEN
1	ONE	19	NINETEEN
2	TWO	20	TWENTY
3	THREE	21	THIRTY
4	FOUR	22	FORTY
5	FIVE	23	FIFTY
6	SIX	24	IT IS
7	SEVEN	25	A.M.
8	EIGHT	26	P.M.
9	NINE	27	HOUR
10	TEN	28	MINUTE
11	ELEVEN	29	HUNDRED HOUR
12	TWELVE	30	GOOD MORNING
13	THIRTEEN	31	ATTENTION PLEASE
14	FOURTEEN	32	PLEASE HURRY
15	FIFTEEN	33	MELODY A
16	SIXTEEN	34	MELODY B
17	SEVENTEEN	35	MELODY C

MELODY A: 2/4 |3 1 2 5—| 5 $\dot{2}$ $\dot{3}$ $\dot{1}$ |

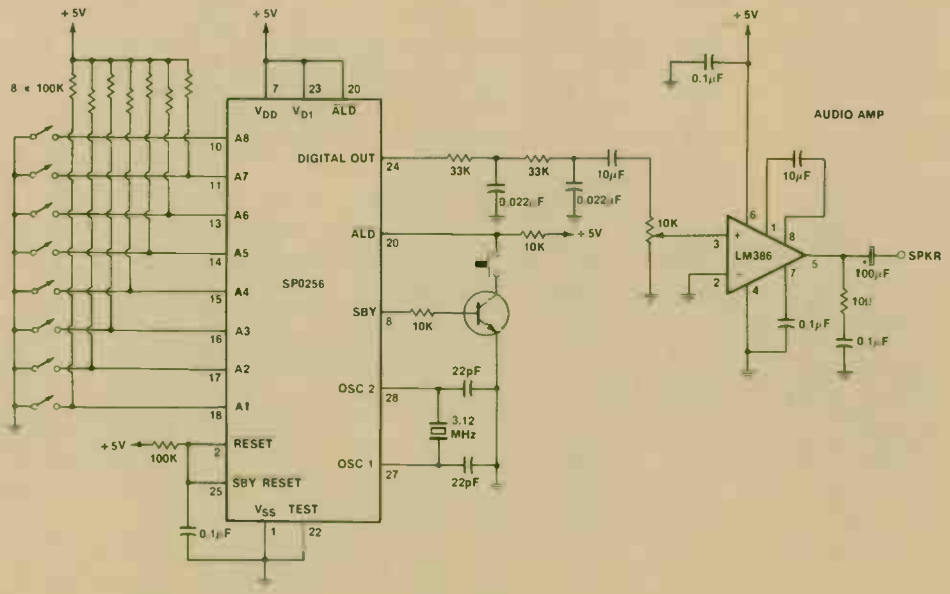
MELODY B: 2/4 $\underline{5\ 3}$ | $\underline{11}$ $\underline{1234}$ | $\underline{5\ 5}$ $\underline{5\ 0}$ | 3

MELODY C: 2/4 $\underline{\underline{1\ 5}}$ | 1 $\underline{\underline{53}}$ | 5 $\underline{\underline{23}}$ | 1

TIMING DIAGRAM



TYPICAL APPLICATIONS



Stand Alone Configuration

277-1012 RADIO CONTROL ELECTRONIC KIT

GENERAL DESCRIPTION

This module was designed for radio control of cars, racers and boats. It can be operated in forward, forward with right turn, forward with left turn and backward. The carrier frequency is 27 MHz. The control commands are transmitted by tone pulse.

Forward—without carrier.
Forward W/right turn—carrier with 3000 Hz pulse modulation.
Forward W/left turn—carrier with 500 Hz pulse modulation.
Backward—carrier only.

There are some wires & external components that you need.
Please see External Component Requirements.

EXTERNAL COMPONENT REQUIREMENTS

Transmitter		Recommendations
Ant	Transmitting antenna	0.5 meter (20 inch) length telescope antenna or steel wire.
S1	Functional switch for driving	Two poles, two throw switch (DPDT) (275-663)
S2	Functional switch for steering	Two poles, two throw switch with center off. (DPDT) (275-664)
	Battery snap	For 006P 9V battery (270-325)

Receiver		Recommendations
Ant.	Receiving antenna	0.3 meter (12 inch) length steel wire
M1	Steering motor	3V motor (Mabuchi motor RN-140-14180)
M2	Driving motor	3V motor (Mabuchi motor RE-280-2865)
S1	ON/OFF switch	2 poles, 2 throw slide switch (DPDT) (275-607)
	Battery snap	For 006P 9V battery (270-325)
	Battery holder	For two D cells 1.5V (270-386)

CONTROL INSTRUCTIONS

The receiver will respond to commands as follows:

Action	Command
Forward	ON/OFF switch of receiver is switched ON.
Forward and Right	Poles of functional switch S2 are at the "R" position
Forward and Left	Poles of functional switch S2 are at the "L" position
Backward	Poles of functional switch S1 are at the "B" position

Note: There are no steering functions while the car is being driven backward. If the system is out of command, please read the trouble shooting.

SIMPLE ADJUSTMENTS

1. Adjust L1 for best response to 27.145 MHz signal from a standard signal generator. Insert a 5 pF capacitor in series between the signal generator and receiver's antenna input.
2. Adjust L3 for maximum transmitter output power as indicated on a field strength meter.
3. Adjust L4 for proper transmitter oscillation as indicated by maximum reading on a field strength meter.

TROUBLESHOOTING

Trouble	Possible Cause	Solution
No function	Low battery voltage	Replace batteries
	Poor soldering	Checked soldering
	Wrong connection	Checked connection
	Corroded functional switch and ON/OFF switch.	Replace functional switch and ON/OFF switch
Insufficient control distance	Low battery voltage	Replace batteries
	Poor soldering for antenna	Checked soldering for antenna
	Length of antennas are not suitable	Replace with suitable antenna.

277-1012

ABSOLUTE MAXIMUM RATINGS

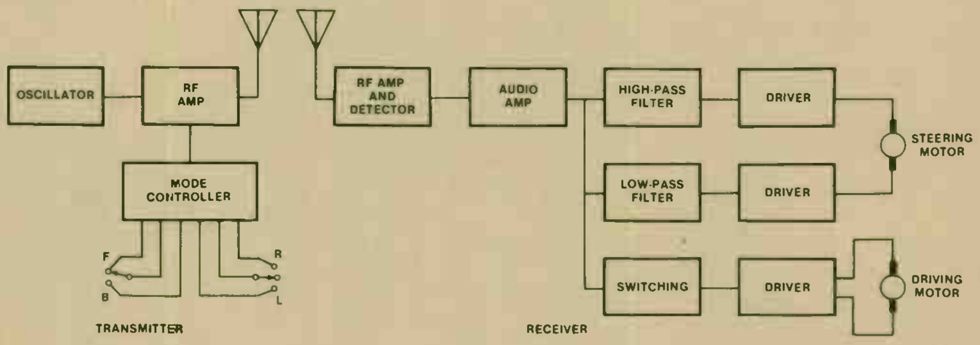
Transmitter

Frequency	27.145 MHz
Current	17mA
Operating Voltage	9V
Battery Life	10 Hours

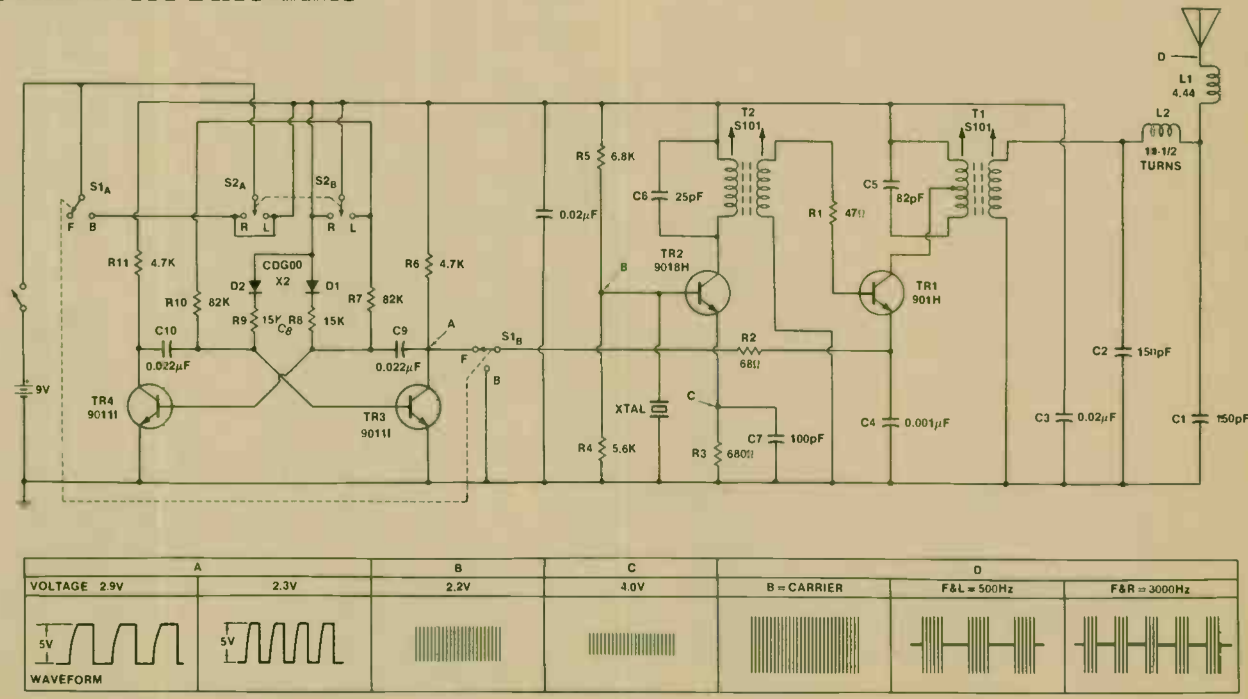
Receiver

Frequency	27.145 MHz
Current	12mA
Operating Voltage	9V

BLOCK DIAGRAM



SCHEMATIC DIAGRAMS

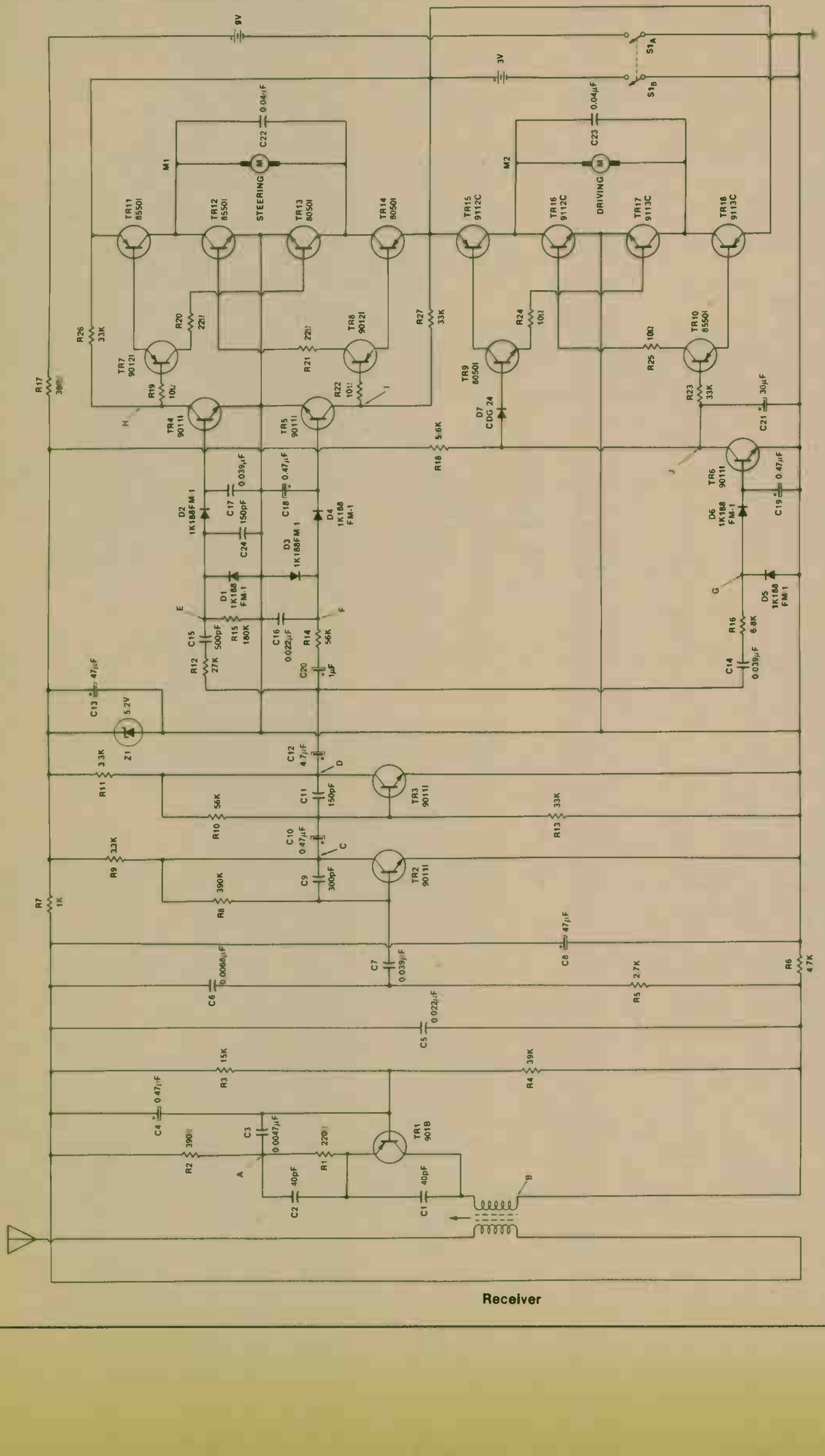


Note:All voltages are measured from ground with digital meter.

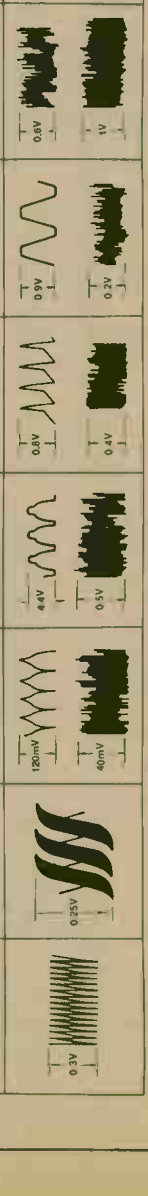
Transmitter

277-1012

SCHEMATIC DIAGRAMS (Cont'd)



A	B	C	D	E	F	G	H	I	J
F 4.36V B 4.36V	F 1.57V B 1.59V	F 2.53V B 2.53V	B 2.53V	F&R 0.27V F 0.13V	F&L 0.03V F 0.02V	F 0.36V B 0.20V	F&R 1.7V F 3 V	F&L 1.45V F 3 V	F 0.16V B 2.83V



All voltages are measured from ground with a digital meter and measured with signal (lower are without signal.)

IMPORTANT SUGGESTIONS ON THE USE AND REPLACEMENT OF TRANSISTORS

You can use various styles and sizes of transistors in any given circuit application, as long as the electrical characteristics of the device are within the required range of operation. Thus, a tab-type device can be used to replace a TO-3 or TO-66 case device; or a small epoxy-type device can be used in place of TO-5 or other size transistor.

Generally speaking, you must observe the following maximum characteristics of a transistor when contemplating substitution or selection:

Power dissipation
Maximum collector current
Maximum collector-to-emitter voltage
Maximum collector-to-base voltage
Maximum emitter-to-base voltage

Also, it is useful to consider the following characteristics for actual circuit operation:

Gain
Frequency limitations

Caution: It may be necessary in some cases to adjust bias values to achieve required operation. With tuned circuits, it is a good practice to check alignment after replacing any transistor.

When replacing power transistors, always check driver devices to be sure they are OK. Also, check other circuit components to be sure they were not shorted (or otherwise defective) when the original device failed. If you fail to correct such problems before applying power to the circuit once again, the replacement transistor could easily be permanently damaged. Be sure to use proper heat-sink precautions and use silicon grease to reduce the thermal resistance between the case of the transistor and the heat-sink.

Always observe temperature limitations as specified with transistor ratings.

It almost goes without saying, but let us remind you anyway—

Always observe voltage polarity with all semiconductor devices.

CROSS-REFERENCE/SUBSTITUTION LISTING

Most users of semiconductors realize that it is almost impossible to guarantee absolute equivalents (as in the case of tubes). Thus, the only way to create replacement or cross-reference listings is by carefully evaluating each characteristic of both devices (original transistor and the possible alternate). This is how the Technical Staff of Radio Shack went about preparing the following cross-reference/replacement lists.

IMPORTANT NOTE

We caution you that in any cases the listed cross reference ARCHER device may be different in appearance, size or mounting style. Thus, before beginning replacement or installation procedues, check to be sure you have enough room for proper mounting.

Also, when making substitutions or replacements in radio or high frequency circuitry, it may be necessary to realign tunable circuit elements. This is true even when making exact replacements (junction capacitances normally vary between devices even from the same production run).

Information contained in this guide is based on the latest available data and is believed to be accurate. Every care has been taken to assure technical accuracy. However, Radio Shack does not assume responsibility for any contingencies of the use of this information. Nor does Radio Shack assume any responsibility for any infringements of patents or other rights of third parties which may result from its use.

When you are looking for a specific number and it does not show up in the following listing—refer to the technical data provided for our line of ARCHER devices. With this information you probably will be able to make a suitable substitution.

ARCHER SEMICONDUCTOR REPLACEMENT GUIDE

DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
0000000FR1	1104	000072090	1123	001-0072-00	1114	001-026010	1102	004-0027-00	1104	003307	1103	01-2102	2009
0000000FR2	1104	000072130	1102	001-0077-00	1104	001-026030	1102	004-00980	1102	003449	2058	01-2104	2009
0000000FRI	1104	000072150	562	001-0081	1123	001-026060	1103	004-002000	1104	003460	2016	01-2105	2009
0000000S15	1104	000072160	1123	001-0095-00	1102	001-044272-002	2059	004-002700	1104	003461	2016	01-2106	2009
0000000SD1	1104	000072190	562	001-0095-02	1103	001-044273-002	2030	004-002800	1104	004567	1104	01-2107	2009
0000001N60	1123	000073070	2016	001-02	2023	001-044277-002	1104	004-003000	1104	004746	2023	01-2108	2009
0000001S85	1123	000073080	2016	001-03	2023	001-044672-001	2007	004-003000	1104	004763	1102	01-2109	2009
00000010D1	1104	000073090	2009	001-04	2023	001-044673-001	2007	004-003300	1104	004792	2010	01-2110	2030
000000DS17	1104	000073100	2009	001-0112-00	1103	001-044674-001	2059	004-003400	1104	004887	563	01-2111	2030
000000DS18	1104	000073110	[illegible]	001-0125-00	1102	001-044676-001	1102	004-003600	1104	0012060	1123	01-2114	2030
000000DS-38	1104	000073120	2009	001-0151-00	1102	001-044677-001	2016	004-003700	1101	0023645	2010	01-2405-0	1104
000000DS38	1104	000073130	2009	001-0151-01	1102	001-1	2060	004-003700(SR-37)	1101	0023828	2009	01-2405-1	1104
000000SD1AB	1104	000073140	2010	001-0153-00	1104	001-533-00	2023	004-003900	1104	0023829	2010	01-2405 2	1104
000000SD1Y	1104	000073230	2009	001-0163-02	565	001-21011	2009	004-004000	1104	0044028-014	2009	01-2406-1	1104
000000SD46	1123	000073231	2009	001-0163-15	562	001-223334	564	004-004100	1104	0044028-14	2009	01-2601	1102
000001S188	1123	000073290	2009	001-01202-1	2007	001-226010	1102	004-009200	1123	0048000	2007	01-2601-0	1102
000001S330	565	000073310	2009	001-01203-1	2007	001-226030	1104	004-03300	1104	0099203-005	1104	01-2603 0	1102
000001S334	562	000073332	2009	001-01206-0	2007	002-00840	2007	004-03500	1104	0099203-007	1104	01-9011-5 2221-3	2009
000001S990	1102	000073333	2009	001-01501-0	1123	002-00900	2007	004-03600	1104	00351980	2030	01-9011-52221-3	2009
000002SB22	2007	000073350	2016	001-02011	2009	002-001100	2007	004-03700	1104	00352080	2009	01-9013-7/2221-3	2009
0000010DC1	1104	000073351	2016	001-02020	2009	002-006300	2007	004-2	2020	00444028-010	2009	01-9013-72221-3	2009
000001S330A	565	000073360	2016	001-02101-0	2009	002-00[illegible]500	2009	005-02	2009	00444028-014	2009	01-9014-2 2221-3	2009
00000DS13	2016	000073361	2016	001-02101-1	2009	002-0[illegible]400	2007	005-1	2020	004440028-002	2009	01-9014-22221-3	2009
00000DS18	1104	000073370	2009	001-02102-0	2009	002-0[illegible]0	2007	006-0000004	1103	004440028-006	2009	01-9016 4 2221-3	2009
00000DS 3[illegible]	1114	000073373	2016	001-02103-0	2009	002-00[illegible]30	2007	006-0000134	2009	004440028-007	2009	01-9016 42221-3	2010
00000DS131	1104	000073374	2016	001-02104-0	2009	002-007100	2007	006-0000135	2023	004440028-008	2009	01-9018-6 2221-3	2009
00000DS410	1102	000073390	2009	001-02105-0	2009	002-007200	2007	006-0000137A	2041	004440028-010	2009	01-9018-62221-3	2010
00000FR202	1104	000073391	2009	001-02106-0	2009	002-007300	2007	006-0000146	1801	004440028-014	2009	01-30828	2050
00000S1B01	1104	0000DS410	1102	001-02107-0	2009	002-007400	2007	006-0000155A	2007	008010028	1103	01-30829	2009
00000WZ090	562	0000DS410R	1102	001-02108-0	2009	002-008300	2009	006-00055182	2023	0063050118	1104	01-57291	2020
0000-00011 046	1102	0000FR202	1104	001-02109-0	2009	002-008400	2007	006-02	2023	0-008	2030	01-117005	2010
0000-00011 049	2009	0000RS1542	1104	001-02110-0	2009	002-009000	2007	006-6400902	1103	01	2023	01-117006	2010
0000-04	2009	0000SD1	1123	001-02111-0	2009	002-009500	2009	006-6450032	2009	01-03945	2016	01 119185-01	706
0000-0141	2023	0000SD 1AUF	1102	001-02111-1	2009	002-009501	2009	007-0040-00	2041	01-010473	2027	01-119105-02	706
0000-0150	2023	0000SD46	1123	001-02113-2	2009	002-009502	2009	007-0051	2030	01-010495	2023	01-119105-03	706
0000-0300	2023	0000WZ090	562	001-02113-3	2009	002-009502-12	2009	007-0051-00	2030	01-010562	2023	01-121365	1759
00001N60	1123	000-04	2009	001-02113-4	2009	002-009600	2010	007-0051-01	2030	01-010564	2023	01-349418	2009
00001S155	1102	0001S49	1104	001-02113-5	2009	002-009601	2010	007-0112	2020	01-010628	2023	01-349423	2009
00001S188	1123	0001S188	1123	001-02119-0	2030	002-009601-12	2016	007-0112-00	2020	01-010673	2023	01-349426	2058
00001S188AM	1123	0001S188AM	1123	001-02121-0	2009	002-009800	2023	007-0112-03	2020	01-010719	2023	01-349634	2009
00001S330A	565	0001S188FM	1123	001-02201-0	2023	002-009800A	2023	007-0112-04	2020	01-010733	2023	01-349601	2023
00001S334	562	0001S334	562	001-02303-0	565	002-009900	2009	007-0112-05	2020	01-010844	2023	01-472814	2059
00001S446D	1123	0001S2144Z	1102	001-02303-3	561	002-03	2009	007-112-04	2020	01-030372	2009	01-571591	2023
00001S1210	1102	0002SB186-0	2007	001-02303-4	564	002-010300	2023	007-6016-00	1103	01-030373	2016	01-571751	2023
00001S1555	1102	0002SB187	2007	001-02405-0	1104	002-010300A	2023	007-6060-00	1103	01-030380	2058	01-571794	2016
00001S1849	1104	0002SB187(RED)	2007	001-02405-1	1104	002-010400	2009	007-25005-01	1103	01-030388	2059	01-571804	2059
00001S1849R	1104	0002SB303-0	2007	001-02405-2	1104	002-010500	2023	007-25013-01	1103	01-030394	2058	01-571811	2009
00001S2076	1102	0002SB1860	2007	001-02406-0	1114	002-010500A	2023	007-25016-01	1103	01-030454	2059	01-571821	2009
00001S4460	1123	0002SB3030	2007	001-02406-1	1114	002-010600	2030	007-73203-01	2007	01-030458	2009	01-571941	2009
00002S606	2010	0002SC373	2009	001-02601-0	1104	002-010800	2009	007-73401-02	2007	01-030509	2059	01-572588	2023
00002SA10	2007	0002SC373W	2016	001-02603-0	1104	002-010900	2023	007-74004-01	2023	01-030509(NPN)	2059	01-572631	2055
00002SA101	2007	0002SC450B	2009	001-012010	2007	002-010900A	2023	007-74008-01	2023	01-030536	2016	01-572774	2027
00002SA202	2007	0002SC450C	2009	001-012011	2007	002-011000	2007	007-74655-02	2009	01-030643	2055	01-572784	2020
00002SA550	2023	0002SC531F	2009	001-012020	2007	002-011400	2016	007-74655-06	2009	01-030668	2010	01-572791	2020
00002SA609	2023	0002SC537F	2009	001-012021	2007	002-011500	2016	007-74659-01	2030	01-030682	2016	01-572811	2023
00002SB22	2007	0002SC644Q	2016	001-012030	2007	002-011600	2007	007-74659-04	2030	01-030710	2009	01-572814	2059
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1C15ZA	564	1GZ61-C	1104	1M15Z5	564	1N54A	1123	1N92	1104	1N265	1123	1N381	1102
1C17	1758	1GZ61-D	1104	1M15Z10	564	1N54G	1123	1N93	1104	1N266	1123	1N382	1102
1C18	1757	1GZ61-K	1104	1M15ZS5	564	1N54GA	1123	1N93A	1104	1N267	1123	1N383	1102
1C26	1759	1GZ61-L	1104	1M15ZS10	564	1N56	1123	1N95	1123	1N268	1123	1N384	1102
1C-101	2060	1GZ61-OR	1104	1M383T	703	1N56A	1123	1N96	1123	1N270	1123	1N385	1102
1C-142	1759	1GZ61-Y	1104	1M753A	561	1N57	1123	1N96A	1123	1N273	1123	1N386	1102
1C202	1757	1GZZ1	1104	1M2086	1104	1N57A	1123	1N97	1123	1N276	1123	1N387	1102
1C3576	2009	1HC-10F	1104	1M8513A	1104	1N58	1123	1N97A	1123	1N277	1123	1N388	1102
1C744005	2016	1HC-10R	1104	1MA4	1104	1N58A	1123	1N98	1123	1N278	1123	1N389	1102
1D08	564	1HC-15F	1104	1MJJ6.2	561	1N60	1123	1N98A	1123	1N279	1123	1N390	1102
1D098-001V-022	1102	1HC-15R	1104	1MJJ6.2A	561	1N60/0112-0028-6438		1N99	1123	1N281	1123	1N391	1102
1D1	1104	1HC-20F	1104	1MJJ12	563		1123	1N99A	1123	1N282	1123	1N392	1102
1D2	1104	1HC-20R	1104	1MJJ12A	563	1N60/3490	1123	1N100	1123	1N283	1123	1N393	1102
1D2Z1	1104	1HC-25F	1104	1N10	1123	1N60/4454C	1123	1N100A	1123	1N285	1123	1N394	1102
1D5.1	565	1HC-25R	1104	1N10D-4F	1104	1N60/7825B	1123	1N103	1123	1N287	1123	1N400	1104
1D5.1A	565	1HC-30F	1104	1N21	1124	1N60-1	1123	1N104	1123	1N288	1123	1N400B	1104
1D6	1104	1HC-30R	1104	1N21A	1124	1N60-FA1	1123	1N105	1123	1N289	1123	1N414B	1102
1D6.2	561	1HC-40F	1104	1N21B	1124	1N60-M3	1123	1N107	1123	1N290	1123	1N416B	1124
1D6.2A	561	1HC-40R	1104	1N21C	1124	1N60-P	1123	1N108	1123	1N292	1123	1N417	1123
1D6.2B	561	1HC-50F	1104	1N21D	1124	1N60-S	1123	1N109	1123	1N294	1123	1N418	1123
1D6.2SA	561	1HC-50R	1104	1N21DM	1124	1N60-T	1123	1N110	1124	1N294A	1123	1N419	1123
1D6.2SB	561	1HC-60F	1104	1N21DMR	1124	1N60-TF1	1123	1N111	1123	1N295	1123	1N431	1102
1D8	1114	1HC-60R	1104	1N21DR	1124	1N60-Z	1123	1N112	1123	1N295A	1123	1N432	1102
1D10	1114	1HC-80F	1114	1N21E	1124	1N60A	1123	1N113	1123	1N295S	1123	1N432A	1102
1D100	1067	1HC-80R	1114	1N21EM	1124	1N60AM	1123	1N114	1123	1N295X	1123	1N432B	1102
1D101	1067	1HC-100F	1114	1N21EMR	1124	1N60B	1123	1N115	1123	1N296	1123	1N433	1102
1D102	1067	1HC-100R	1114	1N21ER	1124	1N60C	1123	1N116	1123	1N297	1123	1N433A	1102
1D103	1067	1HY40	1104	1N21F	1124	1N60D	1123	1N116A	1123	1N297A	1123	1N433B	1102
1D104	1067	1HY50	1104	1N21FM	1124	1N60F	1123	1N117	1123	1N298	1123	1N434	1102
1D261	1104	1HY80	1114	1N21FMR	1124	1N60FA1	1123	1N117A	1123	1N298A	1123	1N434A	1102
1DC1	1104	1HY100	1114	1N21FR	1124	1N60FD1	1123	1N118	1123	1N299	1124	1N434B	1102
1DG2	1123	1J1	2009	1N21G	1124	1N60FM	1123	1N118A	1123	1N299B	1124	1N435	1123
1DZ12	563	1JH11F	1104	1N21GM	1124	1N60FM1	1123	1N119	1123	1N300	1102	1N440	1104
1DZ61	1104	1JH62	1104	1N21GMR	1124	1N60FMX	1123	1N119A	1123	1N300A	1102	1N440B	1104
1DZ61-A	1104	1JL50	1104	1N21GR	1124	1N60G	1123	1N120	1123	1N300B	1102	1N441	1104
1DZ61-B	1104	1JL51	1104	1N21WD	1124	1N60GA	1123	1N120A	1123	1N301	1102	1N441B	1104
1DZ61-C	1104	1JL52	1104	1N21WDM	1124	1N60GB	1123	1N124	1124	1N301A	1102	1N442	1104
1DZ61-D	1104	1JL53	1104	1N21WE	1124	1N60M	1123	1N124A	1124	1N301B	1102	1N442B	1104
1DZ61-K	1104	1JL56	1104	1N21WEM	1124	1N60M3	1123	1N125	1123	1N303	1102	1N443	1104
1DZ61-L	1104	1JL57	1104	1N21WF	1124	1N60P	1123	1N126	1123	1N303A	1102	1N443B	1104
1DZ61-OR	1104	1JL58	1114	1N21WFM	1124	1N60R	1123	1N126A	1123	1N303B	1102	1N444	1104
1DZ61-Y	1104	1JL59	1114	1N21WG	1124	1N60S	1123	1N128	1123	1N304	1123	1N444B	1104
1E02	1104	1JL63	1114	1N21WGM	1124	1N60SD60	1123	1N128A	1123	1N305	1123	1N445	1104
1E05	1104	1JL64	1114	1N-22	1123	1N60T	1123	1N132	1123	1N306	1123	1N445B	1104
1E-1	2030	1JZ61	1114	1N22	1123	1N60TV	1123	1N133	1123	1N307	1123	1N447	1123
1E1	1104	1JZ61-A	1104	1N23	1124	1N60TVGL	1123	1N134	1123	1N308	1123	1N448	1123
1E2	1104	1JZ61-B	1104	1N23A	1124	1N60TV-TOGL	1123	1N135	1102	1N309	1123	1N449	1123
1E2Z5	563	1JZ61-C	1104	1N23B	1124	1N60TVTP	1123	1N136	1123	1N310	1123	1N450	1123
1E3	1104	1JZ61-D	1104	1N23C	1124	1N60TVTPGL	1123	1N137	1123	1N312	1123	1N451	1123
1E4	1104	1JZ61-K	1104	1N23D	1124	1N60Z	1123	1N137A	1102	1N314	1123	1N452	1123
1E5	1104	1JZ61-L	1104	1N23DM	1124	1N61A	1123	1N137B	1102	1N315	1104	1N453	1123
1E6	1104	1JZ61-OR	1104	1N23DMR	1124	1N62	1123	1N138	1102	1N315A	1104	1N454	1123
1E7	1114	1JZ61-Y	1104	1N23DR	1124	1N63	1123	1N138A	1102	1N316	1104	1N455	1123
1E8	1114	1K2	1143	1N23E	1124	1N63A	1123	1N138B	1102	1N316A	1104	1N456	1102
1E-9A	2007	1K34A	1123	1N23EM	1124	1N64	1123	1N139	1123	1N317	1104	1N456A	1102
1E9.1Z	562	1K60	1123	1N23EMR	1124	1N64A	1123	1N140	1123	1N317A	1104	1N457	1102
1E9.1Z10	562	1K60A	1123	1N23ER	1124	1N64B	1123	1N142	1123	1N318	1104	1N457A	1102
1E10	1114	1K90	1123	1N23F	1124	1N64G	1123	1N143	1123	1N318A	1104	1N457M	1102
1E12Z	563	1K110	1123	1N23FM	1124	1N64GA	1123	1N144	1123	1N319	1104	1N458	1102
1E12Z5	563	1K188FM	1123	1N23FR	1124	1N64P	1123	1N145	1123	1N319A	1104	1N458A	1102
1E12Z10	563	1K188FM-1	1123	1N23G	1124	1N65	1123	1N147	1124	1N320	1104	1N458M	1102
1E15Z	564	1K261	1123	1N23GM	1124	1N65A	1123	1N147A	1124	1N320A	1104	1N459	1102
1E15Z5	564	1LE11	1114	1N23GMR	1124	1N66	1123	1N148	1123	1N321	1104	1N459A	1102

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
1N459M	1102	1N603A	1104	1N774A	1123	1N889	1114	1N1054	1114	1N1566A	1104	1N2072	1104
1N460	1102	1N604	1104	1N775	1123	1N890	1102	1N1055	1143	1N1567A	1104	1N2073	1104
1N460A	1102	1N604A	1104	1N776	1123	1N891	1102	1N1056	1114	1N1568A	1104	1N2074	1104
1N460B	1102	1N605	1104	1N777	1123	1N892	1102	1N1057	1114	1N1617	1143	1N2075	1104
1N461	1102	1N605A	1104	1N778	1102	1N897	1102	1N1081	1104	1N1617AR	1143	1N2075K	1102
1N461A	1102	1N606	1104	1N779	1102	1N898	1102	1N1081A	1104	1N1618	1104	1N2076	1104
1N462	1102	1N606A	1104	1N781	1123	1N899	1102	1N1082	1104	1N1619	1104	1N2077	1104
1N462A	1102	1N616	1123	1N788	1102	1N900	1102	1N1082A	1104	1N1620	1104	1N2078	1104
1N463	1102	1N617	1123	1N789	1102	1N901	1102	1N1083	1104	1N1630	1102	1N2079	1104
1N463A	1102	1N618	1123	1N789M	1102	1N902	1102	1N1083A	1104	1N1638	1102	1N2080	1104
1N464	1102	1N619	1102	1N790	1102	1N903	1102	1N1084	1104	1N1644	1141	1N2081	1104
1N464A	1102	1N622	1102	1N790M	1102	1N903/A	1102	1N1084A	1104	1N1645	1143	1N2082	1104
1N473	565	1N625	1102	1N791	1102	1N903A	1102	1N1093	1123	1N1646	1143	1N2083	1104
1N473A	565	1N625A	1102	1N791M	1102	1N903AM	1102	1N1095	1104	1N1647	1143	1N2084	1104
1N473B	565	1N625M	1102	1N792	1102	1N903M	1102	1N1096	1104	1N1648	1144	1N2085	1104
1N476	1123	1N626	1102	1N792M	1102	1N904	1102	1N1100	1104	1N1649	1144	1N2086	1104
1N477	1123	1N626A	1102	1N793	1102	1N904/A	1102	1N1101	1104	1N1650	1144	1N2088	1104
1N478	1123	1N626M	1102	1N793M	1102	1N904A	1102	1N1102	1104	1N1651	1144	1N2089	1104
1N479	1123	1N627	1102	1N794	1102	1N904AM	1102	1N1103	1104	1N1692	1104	1N2090	1104
1N480	1123	1N627A	1102	1N795	1102	1N904M	1102	1N1104	1104	1N1693	1104	1N2091	1104
1N480B	1104	1N628	1102	1N796	1102	1N905	1102	1N1104R	1104	1N1694	1104	1N2092	1104
1N482	1102	1N628A	1102	1N797	1102	1N905/A	1102	1N1105	1104	1N1695	1104	1N2093	1104
1N482A	1102	1N629	1102	1N798	1102	1N905A	1102	1N1108	1114	1N1696	1104	1N2094	1104
1N482B	1102	1N629A	1102	1N799	1102	1N905AM	1102	1N1122A	1104	1N1697	1104	1N2095	1104
1N482C	1102	1N631	1123	1N800	1102	1N905M	1102	1N1169	1104	1N1701	1104	1N2096	1104
1N483	1102	1N632	1123	1N801	1102	1N906	1102	1N1169A	1104	1N1702	1104	1N2103	1104
1N483A	1102	1N633	1102	1N802	1102	1N906/A	1102	1N1217	1104	1N1703	1104	1N2104	1104
1N483AM	1102	1N636	1123	1N803	1102	1N906A	1102	1N1217A	1104	1N1704	1104	1N2105	1104
1N483B	1102	1N636A	1123	1N804	1102	1N906AM	1102	1N1217B	1104	1N1705	1104	1N2106	1104
1N483BM	1102	1N643	1102	1N805	1123	1N906M	1102	1N1218	1104	1N1706	1104	1N2107	1104
1N483C	1102	1N643A	1102	1N806	1102	1N907	1102	1N1218A	1104	1N1707	1104	1N2108	1104
1N484	1102	1N645	1104	1N807	1102	1N907/A	1102	1N1218B	1104	1N1708	1104	1N2115	1104
1N484A	1102	1N645A	1104	1N808	1102	1N907A	1102	1N1219	1104	1N1709	1104	1N2116	1104
1N484B	1102	1N645B	1104	1N809	1102	1N907AM	1102	1N1219A	1104	1N1710	1104	1N2117	1104
1N484C	1102	1N646	1104	1N810	1102	1N907M	1102	1N1219B	1104	1N1711	1104	1N2163	562
1N485	1102	1N647	1104	1N811	1102	1N908	1102	1N1220	1143	1N1712	1104	1N2163A	562
1N485A	1102	1N648	1104	1N811M	1102	1N908/A	1102	1N1220A	1143	1N1713	563	1N2164	562
1N485B	1102	1N649	1104	1N812	1102	1N908A	1102	1N1220B	1143	1N1730	1114	1N2164A	562
1N485C	1102	1N658	1102	1N812M	1102	1N908AM	1102	1N1221	1144	1N1730A	1114	1N2165	562
1N486	1102	1N658A	1102	1N813	1102	1N908M	1102	1N1221A	1144	1N1736	563	1N2165A	562
1N486A	1102	1N658M	1102	1N813M	1102	1N909	1123	1N1221B	1144	1N1736A	563	1N2166	562
1N486B	1102	1N659	1102	1N814	1102	1N910	1123	1N1222	1144	1N1763	1104	1N2166A	562
1N497	1123	1N659/A	1102	1N814M	1102	1N911	1123	1N1222A	1144	1N1763A	1144	1N2167	562
1N498	1123	1N659A	1102	1N815	1102	1N914	1103	1N1222B	1144	1N1764	1104	1N2167A	562
1N500	1123	1N660	1102	1N815M	1102	1N914/A/B	1103	1N1225	1114	1N1766	561	1N2168	562
1N503	1104	1N660A	1102	1N817	1102	1N914A	1103	1N1225A	1114	1N1766A	561	1N2168A	562
1N504	1104	1N661	1102	1N818	1102	1N914B	1103	1N1225B	1114	1N1770	562	1N2169	562
1N505	1104	1N661A	1102	1N818M	1102	1N914M	1103	1N1226	1114	1N1770A	562	1N2169A	562
1N506	1104	1N662	1102	1N819	1104	1N915	1102	1N1226A	1114	1N1773	563	1N2170	562
1N507	1104	1N662A	1102	1N822	561	1N916	1103	1N1226B	1114	1N1773A	563	1N2170A	562
1N508	1104	1N663	1102	1N835	1123	1N916A	1102	1N1251	1104	1N1775	564	1N2171	562
1N509	1114	1N663A	1102	1N837	1102	1N916B	1102	1N1252	1104	1N1775A	564	1N2171A	562
1N510	1114	1N663M	1102	1N837A	1102	1N917	1102	1N1253	1104	1N1839	1102	1N2181	1104
1N511	1104	1N665	563	1N838	1102	1N919	1102	1N1254	1104	1N1840	1102	1N2323	1104
1N512	1104	1N666	564	1N839	1102	1N920	1102	1N1255	1104	1N1841	1102	1N2390	1141
1N513	1104	1N673	1104	1N840	1102	1N921	1102	1N1255A	1104	1N1842	1102	1N2391	1143
1N514	1104	1N675	561	1N840M	1102	1N922	1102	1N1256	1104	1N1843	1102	1N2392	1143
1N515	1104	1N676	1104	1N841	1102	1N924	1102	1N1257	1104	1N1844	1102	1N2393	1144
1N516	1104	1N677	1104	1N842	1102	1N925	1102	1N1258	1114	1N1845	1102	1N2394	1144
1N517	1114	1N678	1104	1N843	1102	1N926	1102	1N1259	1114	1N1846	1102	1N2399	1141
1N518	1114	1N679	1104	1N844	1102	1N927	1102	1N1260	1114	1N1847	1102	1N2400	1143
1N519	1104	1N681	1104	1N845	1102	1N928	1102	1N1261	1114	1N1877	563	1N2401	1143
1N520	1104	1N682	1104	1N846	1104	1N929	1102	1N1337-5	1104	1N1877A	563	1N2402	1144
1N521	1104	1N683	1104	1N847	1104	1N930	1102	1N1391	1123	1N1878	564	1N2403	1144
1N522	1104	1N684	1104	1N848	1104	1N931	1102	1N1406	1104	1N1878A	564	1N2408	1141
1N523	1104	1N685	1104	1N849	1104	1N932	1102	1N1407	1114	1N1907	1104	1N2409	1143
1N524	1104	1N686	1104	1N850	1104	1N933	1102	1N1408	1114	1N1908	1104	1N2410	1143
1N525	1114	1N687	1104	1N851	1104	1N934	1102	1N1415	1104	1N1909	1104	1N2411	1144
1N526	1114	1N689	1104	1N852	1104	1N937A	562	1N1426	563	1N1910	1144	1N2412	1144
1N527	1123	1N690	1102	1N853	1114	1N942A	563	1N1427	564	1N1911	1104	1N2422	1104
1N530	1104	1N692	1104	1N854	1114	1N942B	563	1N1439	1104	1N1912	1104	1N2423	1104
1N531	1104	1N693	1102	1N855	1114	1N943	563	1N1440	1104	1N1913	1104	1N2424	1114
1N532	1104	1N695	1123	1N856	1114	1N943A	563	1N1441	1104	1N1914	1114	1N2425	1114
1N533	1104	1N695A	1123	1N857	1104	1N943B	563	1N1442	1104	1N1915	1114	1N2473	1102
1N534	1104	1N696	1102	1N858	1104	1N944	563	1N1443	1114	1N1916	1114	1N2482	1104
1N535	1104	1N697	1102	1N859	1104	1N944A	563	1N1443A	1114	1N1933	563	1N2483	1104
1N536	1104	1N698	1123	1N860	1104	1N944B	563	1N1443B	1114	1N1934	564	1N2484	1104
1N537	1104	1N709B	561	1N861	1104	1N947	1104	1N1485	561	1N1934A	564	1N2485	1104
1N538	1104	1N713B	562	1N862	1104	1N948	1102	1N1486	1104	1N1934B	564	1N2486	1104
1N539	1104	1N716	563	1N863	1104	1N949	1123	1N1487	1104	1N1960	563	1N2487	1104
1N540	1104	1N716(ZENER)	563	1N864	1114	1N960	562	1N1488	1104	1N1960A	563	1N2488	1104
1N542	1123	1N716A	563	1N865	1114	1N960A	562	1N1489	1104	1N1960B	563	1N2489	1104
1N542A	1123	1N716B	563	1N866	1114	1N960B	562	1N1490	1104	1N1987	563	1N2609	1104
1N542MP	1123	1N718	564	1N867	1114	1N963	563	1N1491	1104	1N1987A	563	1N2610	1104
1N547	1104	1N718A	564	1N868	1104	1N963A	563	1N1492	1104	1N1987B	563	1N2611	1104
1N548	1114	1N718B	564	1N869	1104	1N963B	563	1N1513	563	1N1988	564	1N2612	1104
1N560	1114	1N751	565	1N870	1104	1N965	564	1N1513A	563	1N1988A	564	1N2613	1144
1N561	1114	1N751A	565	1N871	1104	1N965A	564	1N1514	564	1N1988B	564	1N2614	1104
1N564	1123	1N753A	561	1N872	1104	1N965B	564	1N1514A	564	1N2013	1141	1N2615	1104
1N568	1123	1N757A	562	1N873	1104	1N993	1102	1N1524	563	1N2014	1143	1N2616	1114
1N569	1123	1N759	563	1N874	1104	1N994	1123	1N1524A	563	1N2015	1143	1N2617	1114
1N571	1123	1N759A	563	1N875	1114	1N995	1123	1N1525	564	1N2016	1143	1N2620	562
1N596	1104	1N760	1102	1N876	1114	1N995M	1123	1N1525A	564	1N2017	1144	1N2620A	562
1N597	1114	1N761-2	565	1N877	1114	1N996	1123	1N1556	1143	1N2018	1144	1N2620B	562
1N598	1114	1N761A	565	1N878	1114	1N997	1102	1N1557	1143	1N2019	1144	1N2621	562
1N599	1104	1N765	563	1N879	1104	1N998	1104	1N1558	1144	1N2020	1144	1N2621A	562
1N599A	1104	1N766-1	563	1N880	1104	1N999	1102	1N1559	1144	1N2032-2	565	1N2621B	562
1N600	1104	1N767-1	564	1N881	1104	1N1008	1104	1N1561	1123	1N2037-1	563	1N2622	562
1N600A	1104	1N770	1123	1N881B	1104	1N1028	1104	1N1562	1123	1N2037A	563	1N2622A	562
1N600KB	1102	1N771	1123	1N882	1104	1N1029	1104	1N1563	1143	1N2038-1	564	1N2622B	562
1N601	1104	1N771A	1123	1N883	1104	1N1030	1104	1N1563A	1104	1N2069	1104	1N2623	562
1N601A	1104	1N771B	1123	1N884	1104	1N1031	1104	1N1564	1143	1N2069A	1104	1N2623A	562
1N601S34	1123	1N772A	1123	1N885	1104	1N1032	1104	1N1564A	1104	1N2070	1104	1N2623B	562
1N602	1104	1N773	1123	1N886	1114	1N1033	1104	1N1565	1144	1N2070A	1104	1N2624	562
1N602A	1104	1N773A	1123	1N887	1114	1N1052	1104	1N1565A	1104	1N2071	1104	1N2624A	562
1N603	1104	1N774	1123	1N888	1114	1N1053	1104	1N1566	1144	1N2071A	1104	1N2624B	562

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
1N2638	1104	1N3287N	1123	1N3753	1123	1N4367	1104	1N4722R	1114	1N5216	1104	1NE11-OR	1114
1N2650	1104	1N3287W	1123	1N3754	1104	1N4368	1104	1N4723R	1114	1N5217	1104	1NE11-A	1114
1N26[illegible]3	1114	1N3298	1104	1N3755	1143	1N4369	1104	1N4724R	1114	1N5218	1114	1NE11-B	1114
1N2801	1123	1N3403	563	1N3756	1144	1N4375	1102	1N4725R	1114	1N5219	1102	1NE11-C	1114
1N2858	1104	1N3404	564	1N3757	1143	1N4376	1102	1N4726	1102	1N5220	1102	1NE11-D	1114
1N2858A	1141	1N3416	563	1N3758	1144	1N4382	1102	1N4727	1102	1N5231	565	1NE11-K	1114
1N2859	1143	1N3417	564	1N3773	1123	1N4383	1104	1N4733	565	1N5231A	565	1NE11-L	1114
1N2859A	1143	1N3435	563	1N3826	565	1N4384	1104	1N4733A	565	1N5231B	565	1NE11-Y	1114
1N2860	1104	1N3436	564	1N3826A	565	1N4385	1104	1N4735	561	1N5234B	561	1NE11A	1114
1N2860A	1143	1N3443	561	1N3828	561	1N4389	1102	1N4735A	561	1N5239B	562	1NE11B	1114
1N2861	1104	1N3447	563	1N3828A	561	1N4392	1102	1N4739	562	1N5242	563	1NE11C	1114
1N2861A	1144	1N3448	564	1N3855A	562	1N4395	1102	1N4739A	562	1N5242A	563	1NE11D	1114
1N2862	1104	1N3465	1123	1N3864	1102	1N4395A	1102	1N4742	563	1N5242B	563	1NE11K	1114
1N2862A	1144	1N3466	1123	1N3866	1143	1N4403	562	1N4742A	563	1N5245	564	1NE11L	1114
1N2863	1104	1N3467	1123	1N3867	1144	1N4403A	562	1N4744	564	1N5245A	564	1NE11R	1114
1N2864	1104	1N3468	1123	1N3872	1102	1N4403B	562	1N4744A	564	1N5245B	564	1NE11Y	1114
1N2878	1114	1N3469	1123	1N3873	1102	1N4406	563	1N4766	562	1N5282	1103	1NF11	1114
1N2879	1114	1N3470	1123	1N3874	1101	1N4406A	563	1N4766A	562	1N5315	1102	1NJ27	1114
1N2880	1114	1N3471	1102	1N3875	1104	1N4406B	563	1N4767	562	1N5316	1102	1NJ33233	1123
1N2881	1114	1N3473	1104	1N3895	1104	1N4408	564	1N4767A	562	1N5317	1102	1NJ60284	1123
1N2882	1114	1N3474	1104	1N3914	1101	1N4408A	564	1N4768	562	1N5318	1102	1NJ61224	1123
1N2883	1114	1N3475	1104	1N3929	1114	1N4408B	564	1N4768A	562	1N5319	1102	1NJ61433	1102
1N2951	1123	1N3476	1114	1N3938	1143	1N4444	1102	1N4769	562	1N5320	1102	1NJ61675	1123
1N3019	562	1N3482	1123	1N3939	1144	1N4446	1103	1N4769A	562	1N5391	1141	1NJ61676	1104
1N3019A	562	1N3483	1123	1N3952	1143	1N4447	1103	1N4771	562	1N5392	1114	1NJ61677	1102
1N3019B	562	1N3484	1123	1N3953	1102	1N4448	1103	1N4771A	562	1N5392GP	1143	1NJ61725	1102
1N3022	563	1N3486	1143	1N3954	1102	1N4449	1103	1N4772	562	1N5393	1143	1NJ61726	1104
1N3022A	563	1N3496	561	1N3956	1102	1N4450	1102	1N4772A	562	1N5393GP	1114	1NJ70973	1123
1N3022B	563	1N3497	561	1N3981	1143	1N4451	1102	1N4773	562	1N5394	1144	1NJ70980	1102
1N3024	564	1N3498	561	1N3982	1144	1N4453	1102	1N4773A	562	1N5394GP	1114	1NJ70989	1123
1N3024A	564	1N3499	561	1N3991	1123	1N4454	1103	1N4774	562	1N5395	1144	1NJ71126	1101
1N3024B	564	1N3500	561	1N4001	1104	1N4455	1102	1N4774A	562	1N5395GP	1114	1NJ711[illegible]5	1123
1N3062	1103	1N3511	565	1N4002	1104	1N4499	561	1N4816	1141	1N5396GP	1114	1NJ71186	1101
1N3063	1102	1N3513	561	1N4003	1104	1N4502	1123	1N4817	1114	1N5397GP	1114	1NJ71224	1102
1N3064	1102	1N3520	563	1N4003GP	1104	1N4517	1143	1N4818	1114	1N5398GP	1114	1NZ61	1114
1N3065	1102	1N3522	564	1N4004	1104	1N4523	1123	1N4819	1144	1N5399GP	1114	1NZ61-A	1114
1N3066	1102	1N3537	563	1N4005	1104	1N4531	1102	1N4820	1144	1N5400	1114	1NZ61-B	1114
1N3067	1102	1N3544	1104	1N4006	1114	1N4532	1102	1N4823	1104	1N5401	1143	1NZ61-C	1114
1N3068	1102	1N3545	1104	1N4007	1114	1N4533	1102	1N4824	1104	1N5402	1143	1NZ61-D	1114
1N3069	1102	1N3546	1104	1N4009	1102	1N4534	1102	1N4825	1104	1N5403	1144	1NZ61-K	1114
1N3069M	1102	1N3547	1104	1N4011	1114	1N4536	1102	1N4827	1102	1N5404	1144	1NZ61-L	1114
1N3070	1102	1N3548	1104	1N4043	1102	1N4547	1102	1N4828	1102	1N5413	1102	1NZ61-OR	1114
1N3071	1102	1N3549	1104	1N4087	1102	1N4548	1102	1N4829	1102	1N5414	1102	1NZ61-Y	1114
1N3072	1141	1N3550	1102	1N4088	1123	1N4565	561	1N4830	1102	1N5415	1101	1P20-0006	2030
1N3073	1143	1N3564	1123	1N4089	1144	1N4565A	561	1N4861	1102	1N5420	1114	1P20-0029	2010
1N3074	1143	1N3575	1102	1N4092	1102	1N4566	561	1N4862	1102	1N5426	1102	1P20-0032	2059
1N3075	1143	1N3576	1102	1N4095	565	1N4566A	561	1N4863	1102	1N5523	565	1P20-0034	2010
1N3076	1144	1N3577	1102	1N4103A	562	1N4567	561	1N4864	1102	1N5523A	565	1P20-0036	2020
1N3077	1144	1N3583	563	1N4106	563	1N4567A	561	1N4896	563	1N5523B	565	1P20-0037	2010
1N3078	1144	1N3583A	563	1N4106A	563	1N4568	561	1N4896A	563	1N5525B	561	1P20-0041	2009
1N3079	1144	1N3583B	563	1N4109	564	1N4568A	561	1N4933	1101	1N5529B	562	1P20-0046	2023
1N3082	1143	1N3592	1123	1N4139	1141	1N4569	561	1N4937	1104	1N5532	563	1P20-0060	1123
1N3083	1144	1N3593	1102	1N4140	1143	1N4569A	561	1N4938	1102	1N5532A	563	1P20-0061	1103
1N3094	1104	1N3594	1102	1N4141	1143	1N4570	561	1N4942	1114	1N5532B	563	1P20-0083	2020
1N3108	562	1N3595	1102	1N4142	1144	1N4570A	561	1N4943	1114	1N5535	564	1P20-0086	565
1N3110	1123	1N3596	1102	1N4147	1102	1N4571	561	1N4944	1114	1N5535A	564	1P20-0110	2010
1N3112	2030	1N3598	1102	1N4148	1103	1N4571A	561	1N4949	1102	1N5535B	564	1P20-0120	1104
1N3121	1123	1N3599	1102	1N4149	1103	1N4572	561	1N4950	1102	1N5550	1114	1P20-0122	2009
1N3122	1123	1N3600	1103	1N4150	1102	1N4572A	561	1N4997	1141	1N5551	1114	1P20-0159	2023
1N3123	1102	1N3601	1102	1N4151	1102	1N4573	561	1N4997R	1114	1N5552	1114	1P20-0213	2023
1N3124	1102	1N3602	1102	1N4152	1102	1N4573A	561	1N4998	1143	1N5562	562	1P20-0214	2009
1N3125	1123	1N3603	1102	1N4153	1103	1N4574	561	1N4998R	1114	1N5562A	562	1P100	1067
1N3146	1123	1N3604	1102	1N4154	1103	1N4574A	561	1N4999	1143	1N5565	563	1P101	1067
1N3147	1102	1N3605	1102	1N4156	1102	1N4575	561	1N4999R	1114	1N5565A	563	1P102	1067
1N3160	1104	1N3606	1102	1N4157	1102	1N4575A	561	1N5000	1144	1N5567	564	1P103	1067
1N3183	1104	1N3607	1102	1N4161	562	1N4576	561	1N5000R	1114	1N5567A	564	1P541	1123
1N3184	1104	1N3608	1102	1N4161A	562	1N4576A	561	1N5001R	1114	1N5605	1102	1P542	1123
1N3185	1114	1N3609	1102	1N4161B	562	1N4577	561	1N5002R	1114	1N5606	1102	1P643	1141
1N3186	1114	1N3611	1104	1N4164	563	1N4577A	561	1N5003R	1114	1N5607	1102	1P644	1143
1N3189	1104	1N3612	1104	1N4164A	563	1N4578	561	1N5004	1143	1N5610	1102	1P645	1144
1N3190	1104	1N3613	1104	1N4164B	563	1N4578A	561	1N5005	1143	1N5617	1104	1P646	1144
1N3191	1104	1N3614	1114	1N4166	564	1N4579	561	1N5006	1144	1N5619	1104	1P647	1144
1N3193	1104	1N3625	1102	1N4166A	564	1N4579A	561	1N5054	1114	1N5624	1143	1R0	1102
1N3194	1104	1N3629	1104	1N4166B	564	1N4580	561	1N5054A	1114	1N5625	1144	1R01	1104
1N3195	1104	1N3630	1104	1N4242	1102	1N4580A	561	1N5055	1143	1N5627GP	1114	1R0E	1102
1N3196	1114	1N3631	1104	1N4243	1102	1N4581	561	1N5056	1143	1N5679	1104	1R0F	1104
1N3197	1102	1N3632	1104	1N4245	1104	1N4581A	561	1N5057	1144	1N5680	1104	1R0H	1104
1N3203	1104	1N3633	1104	1N4246	1104	1N4582	561	1N5058	1144	1N5711	1102	1R1D	1104
1N3204	1123	1N3634	1104	1N4247	1104	1N4582A	561	1N5059	1114	1N5712	1102	1R1K	1104
1N3206	1102	1N3635	1114	1N4248	1114	1N4583B	561	1N5060	1114	1N5713	1102	1R2	1102
1N3207	1102	1N3636	1114	1N4249	1114	1N4584	561	1N5061	1114	1N5719	1102	1R2A	1104
1N3221	1114	1N3637	1114	1N4250	1114	1N4584A	561	1N5062	1114	1N5729	565	1R2D	1104
1N3223	1102	1N3638	1114	1N4251	1114	1N4606	1102	1N5062(SEARS)	1102	1N5730	563	1R2E	1104
1N3227	1143	1N3639	1104	1N4305	1103	1N4607	1102	1N5170	1114	1N5740	564	1R3A	1102
1N3228	1143	1N3640	1104	1N4306	1102	1N4608	1102	1N5171	1141	1N5767	1102	1R3D	1104
1N3237	1141	1N3641	1104	1N4307	1102	1N4610	1102	1N5172	1114	1N5820	1114	1R3G	1104
1N3238	1143	1N3642	1114	1N4308	1102	1N4625	565	1N5173	1144	1N5821	1114	1R3J	1104
1N3239	1143	1N3653	1102	1N4309	1102	1N4631	562	1N5174	1144	1N5847	565	1R4	1102
1N3240	1144	1N3654	1102	1N4311	1102	1N4634	563	1N5177	1114	1N5847A	565	1R5A	1104
1N3246	1141	1N3656	1143	1N4315	1102	1N4636	564	1N5178	1114	1N5847B	565	1R5B	1104
1N3247	1143	1N3657	1144	1N4318	1102	1N4654	565	1N5179	1102	1N5855A	562	1R5BZ61	1114
1N3248	1143	1N3666	1102	1N4322	1102	1N4656	561	1N5190GP	1114	1N5858	563	1R5BZ61-A	1114
1N3249	1144	1N3668	1102	1N4326	562	1N4660	562	1N5194	1102	1N5858A	563	1R5BZ61-B	1114
1N3253	1104	1N3669	1104	1N4326A	562	1N4663	563	1N5195	1102	1N5858B	563	1R5BZ61-C	1114
1N3254	1104	1N3678	562	1N4326B	562	1N4665	564	1N5196	1102	1N5861	564	1R5BZ61-D	1114
1N3255	1104	1N3678A	562	1N4329	563	1N4689	565	1N5197	1141	1N5861A	564	1R5BZ61-K	1114
1N3256	1114	1N3681	563	1N4329A	563	1N4699	563	1N5199	1143	1N5861B	564	1R5BZ61-L	1114
1N3257	1102	1N3681A	563	1N4329B	563	1N4702	564	1N5200	1144	1N33974	562	1R5BZ61-OR	1114
1N3258	1102	1N3681B	563	1N4331	564	1N4718	1101	1N5208	1102	1N36001	1103	1R5BZ61-Y	1114
1N3277	1104	1N3683	564	1N4331A	564	1N4719	1141	1N5209	1102	1N70980	1102	1R5DZ61	1143
1N3278	1104	1N3683A	564	1N4331B	564	1N4719R	1114	1N5210	1102	1N601000-17	1123	1R5DZ61-A	1114
1N3279	1104	1N3683B	564	1N4361	1114	1N4720	1143	1N5211	1104	1NA4	1123	1R5DZ61-B	1114
1N3280	1114	1N3722	1102	1N4363	1102	1N4720R	1114	1N5212	1104	1NA4G	1123	1R5DZ61-C	1114
1N3281	1114	1N3732	565	1N4364	1104	1N4721	1143	1N5213	1104	1NAG1	1123	1R5DZ61-D	1114
1N3282	1114	1N3748	1143	1N4365	1171	1N4721R	1143	1N5214	1114	1NC61684	1104	1R5DZ61-L	1114
1N3287	1123	1N3749	1144	1N4366	1171	1N4722	1144	1N5215	1104	1NE11	1114	1R5DZ61-OR	1114

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
1R5DZ61-Y	1114	1S60(RECT)	1104	1S138	1114	1S337A	563	1S746	1123	1S990AM	1123	1S1341	1104
1R5G	1104	1S60F	1123	1S138(RECT)	1114	1S337E	563	1S747	1123	1S990S	564	1S1342	1104
1R5GZ61	1114	1S61	1104	1S141	563	1S337Y	563	1S748	1123	1S990S(DIODE)	1102	1S1343	1104
1R5GZ61-A	1114	1S62	1104	1S142	564	1S354	1123	1S750	1124	1S990S(ZENER)	564	1S1344	1104
1R5GZ61-B	1114	1S63	1104	1S144	1102	1S355	1123	1S750(2)	1124	1S994A	1102	1S1345	1114
1R5GZ61-C	1114	1S64	1104	1S147	1104	1S356	1123	1S750GR	1124	1S1000	1124	1S1346	1104
1R5GZ61-D	1114	1S65	1104	1S148	1104	1S357	1123	1S750S	1124	1S1000A	1124	1S1347	1114
1R5GZ61-K	1114	1S66	1104	1S149	1104	1S358	1104	1S755(H)	565	1S1001	1102	1S1348	1114
1R5GZ61-L	1114	1S71	1104	1S150	1104	1S358A	1104	1S757A	562	1S1004	1104	1S1359	1104
1R5GZ61-OR	1114	1S72	1123	1S155	1102	1S358S	1104	1S758GS	562	1S1005	1123	1S1359A	1104
1R5GZ61-Y	1114	1S73	1123	1S155-1	1102	1S359	1104	1S773	1103	1S1006	1123	1S1360	1104
1R5GZ61FA-1	1114	1S73A	1123	1S180	1102	1S367	1104	1S773A	1103	1S1007	1123	1S1360A	1104
1R5H	1104	1S74	1123	1S180/5G8	1104	1S368	1104	1S775	1103	1S1007S	1123	1S1361	1104
1R5JZ61-A	1114	1S75	1123	1S180-M	1104	1S369	1104	1S776	1103	1S1008	1123	1S1361A	1104
1R5JZ61-B	1114	1S76	1123	1S180B	1102	1S370	1104	1S780	1123	1S1009	1123	1S1362	1114
1R5JZ61-C	1114	1S77	1123	1S181	1102	1S371	1104	1S801	1103	1S1010	1123	1S1362A	1114
1R5JZ61-D	1114	1S77H	1123	1S181-M	1104	1S372	1104	1S802	1103	1S1012	1104	1S1363	1114
1R5JZ61-K	1114	1S78	1123	1S181FA	1102	1S373	1104	1S803	1103	1S1013	1104	1S1363A	1114
1R5JZ61-L	1114	1S78H	1123	1S182	1102	1S374	1104	1S804	1103	1S1014	1114	1S1365	1104
1R5JZ61-OR	1114	1S79	1123	1S182-M	1104	1S375	1104	1S805	1103	1S1015	1114	1S1365A	1104
1R5JZ61-V	1114	1S79H	1123	1S183	1104	1S376	1104	1S806	1103	1S1021	1104	1S1366	1104
1R5.1	565	1S80	1123	1S183-M	1104	1S377	1104	1S807	1103	1S1022	1104	1S1366A	1104
1R9	1104	1S81	1104	1S185	1123	1S378	1104	1S808	1103	1S1023	1114	1S1367	1104
1R9D	1104	1S82	1123	1S185OR	1104	1S379	1104	1S811	1104	1S1024	1114	1S1367A	1104
1R9H	1104	1S83	1104	1S186	1123	1S380	1104	1S812	1104	1S1027	1104	1S1368	1114
1R9I	1104	1S84	1102	1S186(FM)	1123	1S381	1104	1S813	1114	1S1028	1104	1S1368A	1114
1R9J	1104	1S84H	1104	1S186G	1104	1S382	1104	1S814	1114	1S1029	1114	1S1369	1114
1R9L	1104	1S85V	1104	1S187	1123	1S390	1104	1S816	1104	1S1030	1114	1S1369A	1114
1R9P	1104	1S87	1123	1S187S	1123	1S393	1104	1S817	1104	1S1039	1144	1S1375	561
1R9U	1104	1S88	1123	1S188	1123	1S394	1104	1S818	1114	1S1043	1104	1S1375A	561
1R9.1A	562	1S89	1102	1S188A	1123	1S395	1104	1S819	1114	1S1044	1104	1S1390	561
1R9.1B	562	1S90	1104	1S188AM	1123	1S396	1104	1S841	1104	1S1045	1114	1S1390A	561
1R10D3K	1102	1S90R	1102	1S188AR	1123	1S397	1114	1S842	1104	1S1046	1114	1S1406	561
1R12	563	1S91	1104	1S188F	1123	1S398	1114	1S843	1104	1S1052	1102	1S1406R	561
1R12A	563	1S91R	1104	1S188FM	1123	1S399	1104	1S844	1104	1S-1053	1103	1S1420H	1102
1R12B	563	1S92	1104	1S188FM-1	1123	1S400	1104	1S844N	1104	1S1053	1102	1S1464	1124
1R15	564	1S92R	1104	1S188FM1	1123	1S401	1114	1S845	1104	1S1061	1104	1S1471	1114
1R15A	564	1S93	1104	1S188FM1A	1123	1S402	1114	1S846	1104	1S1062	1104	1S1473	1102
1R15B	564	1S93 SGJ	1104	1S188FM2	1123	1S404	1104	1S846N	1104	1S1063	1104	1S1474	1143
1R81	1104	1S93R	1104	1S188FMA	1123	1S405	1114	1S847	1114	1S1064	1104	1S1475	1144
1R90	1104	1S94	1104	1S188G	1123	1S406	1114	1S848	1114	1S1065	1114	1S1486	1104
1R96	1114	1S94R	1104	1S188PM	1123	1S426	1123	1S848N	1114	1S1066	1114	1S1487	1104
1R106B1	1067	1S95	1104	1S188S	1123	1S426FM	1123	1S849	1104	1S1071	1114	1S1488	1143
1R106B1-C	1067	1S95R	1104	1S188TV	1123	1S426G	1123	1S849 R	1104	1S1072	1143	1S1489	1144
1R106B2	1067	1S96	1114	1S189	1123	1S426GFM	1123	1S849R	1104	1S1073	1144	1S1514	1102
1R106B3	1067	1S96R	1114	1S190	565	1S428	1123	1S850	1114	1S1076	1114	1S1515	1102
1R106B4	1067	1S97	1114	1S197	563	1S430	1141	1S850N	1114	1S1096	1104	1S1516	1102
1R106B41	1067	1S97R	1114	1S200	1123	1S431	1143	1S851	1123	1S1121	1171	1S1532	1102
1R106D1	1020	1S98	1114	1S204	1104	1S432	1143	1S854	1144	1S1123	1173	1S1546	1104
1R106D2	1020	1S98R	1114	1S205	1104	1S434	1144	1S871	1104	1S1124	1173	1S1547	1104
1R106D3	1020	1S99	1114	1S206	1104	1S441	1123	1S871A	1104	1S1146	1104	1S1548	1104
1R106D4	1020	1S99A	1104	1S207	1104	1S442	1123	1S871B	1114	1S1147	1103	1S1549	1124
1R106D41	1020	1S99R	1104	1S208	1104	1S444	1102	1S871C	1114	1S1155	1102	1S1553	1103
1R914	1103	1S100	1104	1S209	1104	1S446	1123	1S872	1104	1S1177	564	1S1553(TV)	1102
1RC5	1057	1S100R	1104	1S210	1114	1S-446D	1123	1S872A	1104	1S1201	561	1S1554	1102
1RC10	1067	1S101	1104	1S210 2SJ6A	1114	1S446D	1123	1S872B	1114	1S1207	1102	1S1555	1102
1RC20	1067	1S101R	1104	1S211	1114	1S447	1123	1S872C	1114	1S1208	1104	1S1555(TV)	1102
1RC30	1020	1S102	1104	1S211 2SJ8A	1114	1S447P	1123	1S881	1104	1S1213	1102	1S1555-1	1102
1RC40	1020	1S102R	1104	1S211A	1114	1S448	1123	1S881A	1104	1S1214	1102	1S1555-S	1102
1RE10	1104	1S103	1104	1S217	562	1S449	1123	1S881B	1114	1S1215	1102	1S-1555-Z	1102
1RLD	1171	1S103R	1104	1S218	1102	1S451	1123	1S881C	1114	1S1216	1102	1S1555-Z	1102
1ROE	1102	1S104	1104	1S227	563	1S452	1123	1S882	1104	1S1217	1102	1S1555FA1	1102
1ROF	1104	1S104R	1104	1S230	564	1S453	1123	1S882A	1104	1S1218	1102	1S-1555V	1102
1ROH	1104	1S105	1104	1S268T	1104	1S454	1123	1S882B	1114	1S1218GR	1102	1S1555V	1102
1R-TR24	2010	1S105R	1104	1S301.5	564	1S455	1123	1S882C	1114	1S1219	1102	1S1555Z	1102
1R-TR25	2010	1S106	1104	1S306	1102	1S456	1104	1S885	1104	1S1219H	1103	1S1580	1102
1RTR51	2016	1S106A	1104	1S306M	1103	1S457	1104	1S887	1104	1S1220	1102	1S1585	1102
1S005	1104	1S106R	1104	1S307	1102	1S458	1104	1S920	1102	1S1221	1104	1S1586	1102
1S016	1104	1S107	1114	1S309	1104	1S459	1104	1S921	1102	1S1222	1104	1S1587	1102
1S020	1143	1S107R	1114	1S310	1104	1S460	1103	1S921(RECT)	1143	1S1223	1114	1S1588	1103
1S021	1143	1S108	1114	1S310H	1104	1S461	1103	1S922	1144	1S1224	1104	1S1588-FM	1123
1S023	1144	1S108R	1114	1S311H	1104	1S465	1103	1S922(DIODE)	1102	1S1225	1114	1S1588V	1103
1S030	1141	1S109	1114	1S311N	1104	1S466	1123	1S922(RECT)	1144	1S1225A	1114	1S1589	1102
1S031	1143	1S109R	1114	1S312	1104	1S467R	1123	1S923	1102	1S1230	1104	1S1597	1104
1S032	1143	1S110	1104	1S312A	1104	1S482	562	1S926G	1123	1S1230H	1104	1S1598	1104
1S034	1144	1S110A	1104	1S312H	1102	1S500	1103	1S941	1102	1S1231	1104	1S1599	1104
1S054	1104	1S111	1104	1S313	1104	1S501	1103	1S941/4454C	1104	1S1231H	1104	1S1600	1104
1S05[illegible]	1114	1S112	1104	1S313H	1104	1S501M	1103	1S942	1102	1S1232	1104	1S1601	1104
1S1-0336-00-A	2041	1S113	1104	1S314	1104	1S542	1123	1S943	1104	1S1232H	1104	1S1602	1104
1S1Z09	1104	1S113A	1104	1S314H	1104	1S543	1124	1S946	1104	1S1232N	1104	1S1604	1104
1S11	1123	1S114	1104	1S314N	1104	1S548	1103	1S947	1104	1S1233	1114	1S1605	1114
1S12	1123	1S115	1104	1S315	1104	1S552	1103	1S948	1104	1S1233H	1114	1S1608	1114
1S13	1123	1S116	1104	1S315FR1MD	1114	1S557	1114	1S949	1114	1S1233N	1114	1S1621	1102
1S14	1123	1S117	1114	1S315H	1104	1S557H	1114	1S950	1114	1S1234	1114	1S1621-O	1102
1S15	1123	1S118	1104	1S316	1114	1S558	1104	1S951	1102	1S1234H	1114	1S1621-[illegible]	1102
1S16	1123	1S119	1104	1S318	1123	1S559	1104	1S952	1102	1S1234N	1114	1S1621-Y	1102
1S17	1123	1S120	1104	1S319	1123	1S560	1102	1S953	1103	1S1239	1123	1S1622	1104
1S17D1	1123	1S121	1104	1S320	565	1S560H	1102	1S954	1103	1S1244	1123	1S1623	1104
1S19	1123	1S121(RECT)	1104	1S322	1102	1S588	1104	1S955	1102	1S1245	1123	1S1624	1104
1S20	1123	1S122	1104	1S323	1123	1S589	1123	1S956	1143	1S1246	1123	1S1625	1104
1S32	1123	1S123	1104	1S324	1122	1S593	1104	1S957	1144	1S1255A	1114	1S1650	1102
1S33	1123	1S124	1104	1S325	1103	1S597	564	1S961	1103	1S1295	1104	1S1651	1102
1S34	1123	1S125	1104	1S326	1103	1S634	565	1S977	1103	1S1296	1104	1S1664	1104
1S34A	1123	1S126	1104	1S327	1104	1S642	1102	1S978	1103	1S1297	1171	1S1666	1104
1S34S	1123	1S127	1123	1S328	1104	1S661	1104	1S981	1103	1S1298	1104	1S1667	1104
1S35	1123	1S128	1123	1S329	1114	1S662	1114	1S982	1103	1S1299	1104	1S1668	1104
1S36	1104	1S129	1123	1S330	565	1S663	1114	1S983	1102	1S1301	1103	1S1668F	1104
1S38	1102	1S130	1102	1S330A	565	1S685	1104	1S984	1103	1S1302	1102	1S1669	1114
1S39	1114	1S130(ZENER)	562	1S330A1	565	1S686	1114	1S985	1103	1S1303	1102	1S1670	1171
1S40	1143	1S131	1102	1S331	561	1S687	1114	1S986	1103	1S1305	1102	1S1672	1173
1S42	1144	1S132	1102	1S334	562	1S693	1102	1S987	1103	1S1314	1104	1S1678	1104
1S43	1144	1S134	1104	1S334K	562	1S696	563	1S988	1103	1S1316	1104	1S1679	1104
1S47	1104	1S136(RECT)	1104	1S334M	562	1S697	564	1S990	1102	1S1317	1104	1S1680	1104
1S55	562	1S136(ZENER)	561	1S334N	562	1S731	1103	1S990(ZENER)	564	1S1318	1104	1S1681	1104
1S56	562	1S136Q	1103	1S337	563	1S744	1123	1S990-AM	1102	1S1319	1104	1S1682	1114
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1S1684	1104	1S1891	1114	1S2279	1104	1S2618	1114	1SR16-50	1141	1T2011	1104	1ZC6.2	561
1S1685	1104	1S1892	1114	1S2304	565	1S2675	1104	1SR16-100	1143	1T2012	1104	1ZC9.1	562
1S1686	1104	1S1906	1104	1S2310	1104	1S2676	1104	1SR16-200	1143	1T2013	1104	1ZC9.1T5	562
1S1687	1104	1S1914	1143	1S2311	1114	1S2692AB	1103	1SR16-400	1144	1T2014	1104	1ZC9.1T10	562
1S1688	1114	1S1915	1143	1S2312	1114	1S2757	1104	1SR17-50	1141	1T2015	1104	1ZC12	563
1S1689	1114	1S1916	1144	1S2313	1104	1S2760	1141	1SR17-100	1143	1T2016	1104	1ZC12T5	563
1S1690	1123	1S1922	1124	1S2314	1114	1S2761	1143	1SR17-200	1143	1T20105	1104	1ZC12T10	563
1S1690A	1104	1S1922G	1124	1S2315	1114	1S2762	1143	1SR17-400	1144	1TA6.2	561	1ZC12T20	563
1S1691	1104	1S1925	1124	1S2316	1104	1S2763	1144	1SR30-200	1104	1TA6.2A	561	1ZC15	564
1S1691A	1104	1S1926	1124	1S2317	1104	1S2764	1144	1SR30-400	1114	1TA6.2B	561	1ZC15T5	564
1S1692A	1104	1S1926K	1124	1S2350	1144	1S2769	561	1SR30-600	1104	1TA9.1	562	1ZC15T10	564
1S1693	1104	1S1928	1124	1S2351	1104	1S2770	561	1SR31-800	2023	1TA9.1A	562	1ZD12	563
1S1693A	1104	1S1941	1104	1S2352	1104	1S2771	561	1SR31-1000	1114	1TA12	563	1ZF5.1T5	565
1S1694A	1104	1S1942	1104	1S2353	1114	1S2774	561	1SR34	1103	1TA12A	563	1ZF5.1T10	565
1S1695	1114	1S1943	1104	1S2354	1114	1S2775	1104	1SR35	1103	1TA15	564	1ZF5.1T20	565
1S1695A	1104	1S1944	1114	1S2356	1104	1S2775FA-1	1104	1SR55-50	1114	1TA15A	564	1ZF9.1T5	562
1S1696	1104	1S1948	1104	1S2357	1104	1S2776	1114	1SR55-100	1114	1TB06	1104	1ZF9.1T10	562
1S1696A	1104	1S1949	1104	1S2358	1104	1S2777	1104	1SR55-200	1104	1TS05	1104	1ZF9.1T20	562
1S1697	1104	1S1950	1104	1S2359	1104	1S2779	1144	1SR70-100	1171	1TV24237	1101	1ZF12T5	563
1S1698	1104	1S1955	565	1S2361	1104	1S2788	1102	1SR70-400	1173	1U585F	2009	1ZF12T10	563
1S1699	1759	1S1959	562	1S2362	1104	1S2788B	1102	1SR77-200	1104	1U585F/7825B	2009	1ZF12T20	563
1S1700	1759	1S1962	563	1S2363	1104	1S2791	1124	1SR77-400	1114	1V3074A20	1104	1ZF15T5	564
1S1710	1103	1S1964	564	1S2364	1114	1S2827A	1143	1SR77-800	2023	1V3074A21	1104	1ZF15T10	564
1S1711	1103	1S1973	1103	1S2365	1114	1S2828A	1144	1SR77-1000	1114	1V9002	1123	1ZF15T20	564
1S1712	1103	1S1991	1143	1S2367	1104	1S2832	1104	1SR78-200	1104	1V68611A47	2023	1ZM5.1T5	565
1S1712A	1103	1S1992	1143	1S2371	1171	1S2833	2023	1SR78-400	1114	1V68611A47A	2023	1ZM5.1T10	565
1S1713	1103	1S1993	1102	1S2371A	1171	1S3009	562	1SR79-800	2023	1VA10	1104	1ZM5.1T20	565
1S1714	1103	1S1994	1102	1S2372	1104	1S3012	563	1SR79-1000	1114	1W8358	2009	1ZM6.2	561
1S1715	561	1S1995	1102	1S2373	1104	1S3016	564	1SS16	1124	1W8537	2023	1ZM6.2T5	561
1S1717L	562	1S2019	1114	1S2373A	1173	1S3016(RECT)	1104	1SS19	1103	1W899SA	2030	1ZM6.2T10	561
1S1718	562	1S2051	565	1S2374	1104	1S3016R	1104	1SS30	1103	1W9148	2023	1ZM6.2T20	561
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1S1720R	1114	1S2051B	565	1S2375A	1173	1S3195	1104	1SS49	1103	1W9640A	2023	1ZM9.1T10	562
1S1721	1124	1S2063	1114	1S2376	1104	1S3305	565	1SS50	1103	1W9723	2009	1ZM9.1T20	562
1S1722	1124	1S2070	1103	1S2377	1114	1S3585	1123	1SS51	1103	1W9728	2023	1ZM12T5	563
1S1723	1104	1S2071	1103	1S2379	1144	1S4266	1123	1SS53	1102	1W9728A	2023	1ZM12T10	563
1S1724	1104	1S2074H	1102	1S2390	1104	1S4266FM	1123	1SS54	1103	1W9782	2023	1ZM12T20	563
1S1724R	1104	1S2075	1102	1S2391	1104	1S4735	565	1SS55	1103	1W9782A	2023	1ZM15T5	564
1S1725	1104	1S2075K	1103	1S2392	1104	1S5454	1123	1SS68	1103	1W9787	2009	1ZM15T10	564
1S1725R	1104	1S2076	1103	1S2393	1104	1S7051	565	1SS78	1124	1W9810	2023	1ZM15T20	564
1S1726	1104	1S2076-27	1103	1S2394	1104	1S7051A	565	1SS81	1102	1W9810A	2023	1ZT12	563
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1S1727	1104	1S2076-TFI	1103	1S2396	1104	1S7120	563	1SS83	1102	1W9810SA	2023	1ZT15	564
1S1727R	1104	1S2076A-07	1103	1S2397	1114	1S7120A	563	1SS110	1103	1W11700	2023	1ZT15B	564
1S1728	562	1S2076A	1103	1S2398	1114	1S7120B	563	1SS119	1103	1W11700A	2023	1.000.111-00	2023
1S1728R	1104	1S2080	1104	1S2399	1114	1S7150	564	1SS133	1103	1W11702	2023	1.5B05	1114
1S1729	1104	1S2081	1104	1S2400	1114	1S7150A	564	1SV34	1103	1W11702A	2023	1.5C05	1114
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
2SA641OR	2023	2SA673K	2023	2SA704X	2023	2SA733K	2023	2SA844E	2023	2SA1046O	2023	2SB33(X)	2007
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2SC33Y	2009	2SC48A	2030	2SC55D	2009	2SC64E	2030	2SC80B	2016	2SC98K	2009	2SC109D	2030
2SC37	2009	2SC48B	2030	2SC55E	2009	2SC64F	2030	2SC80C	2016	2SC98L	2009	2SC109E	2030
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2SC37B	2009	2SC48D	2030	2SC55G	2009	2SC64GN	2030	2SC80E	2016	2SC98OR	2009	2SC109G	2030
2SC37C	2009	2SC48E	2030	2SC55GN	2009	2SC64H	2030	2SC80F	2016	2SC98R	2009	2SC109G1	2030
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2SC37E	2009	2SC48G	2030	2SC55J	2009	2SC64L	2030	2SC80GN	2016	2SC98Y	2009	2SC109J	2030
2SC37F	2009	2SC48GN	2030	2SC55K	2009	2SC64M	2030	2SC80H	2016	2SC99	2009	2SC109K	2030
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2SC37H	2009	2SC48K	2030	2SC55OR	2009	2SC64X	2030	2SC80L	2016	2SC99C	2009	2SC109R	2030
2SC37J	2009	2SC48L	2030	2SC55R	2009	2SC64Y	2030	2SC80M	2016	2SC99D	2009	2SC109X	2030
2SC37K	2009	2SC48M	2030	2SC55X	2009	2SC64Y-RST	2030	2SC80OR	2016	2SC99E	2009	2SC109Y	2030
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2SC37OR	2009	2SC48X	2030	2SC56A	2010	2SC67B	2009	2SC80Y	2016	2SC99GN	2009	2SC110B	2009
2SC37R	2009	2SC48Y	2030	2SC56B	2010	2SC67C	2009	2SC82BN	2010	2SC99H	2009	2SC110C	2009
2SC37X	2009	2SC49	2030	2SC56C	2010	2SC67D	2009	2SC82R	2010	2SC99J	2009	2SC110D	2009
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2SC38	2009	2SC49B	2030	2SC56E	2010	2SC67F	2009	2SC87	2009	2SC99L	2009	2SC110F	2009
2SC38A	2009	2SC49C	2030	2SC56F	2010	2SC67G	2009	2SC87A	2009	2SC99M	2009	2SC110G	2009
2SC38B	2009	2SC49D	2030	2SC56G	2010	2SC67GN	2009	2SC87B	2009	2SC99OR	2009	2SC110GN	2009

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2SC110H	2009	2SC116B	2009	2SC122F	2030	2SC132E	2009	2SC139E	2009	2SC152OR	2009	2SC160X	2009
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2SC110K	2009	2SC116D	2009	2SC122GN	2030	2SC132G	2009	2SC139G	2009	2SC152X	2009	2SC162	2009
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2SC110R	2009	2SC116GN	2009	2SC122L	2030	2SC132K	2009	2SC139K	2009	2SC155A	2010	2SC166C	2009
2SC110X	2009	2SC116H	2009	2SC122M	2030	2SC132L	2009	2SC139M	2009	2SC155B	2010	2SC166D	2009
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2SC112A	2030	2SC117L	2030	2SC123X	2030	2SC133Y	2009	2SC140Y	2030	2SC156F	2010	2SC167G	2009
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2SC112M	2030	2SC118G	2030	2SC124J	2030	2SC134K	2009	2SC148E	2010	2SC157	2009	2SC170A	2009
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2SC116-OR	2009	2SC122D	2030	2SC132C	2009	2SC139C	2009	2SC152L	2009	2SC160OR	2009	2SC174L	2009
2SC116A	2009	2SC122E	2030	2SC132D	2009	2SC139D	2009	2SC152M	2009	2SC160R	2009	2SC174M	2009

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2SC174OR	2059	2SC191H	2009	2SC197H	2009	2SC205G	2009	2SC216D	2030	2SC225E	2030	2SC237F	2009
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2SC186K	2010	2SC192GN	2009	2SC199F	2009	2SC206E	2016	2SC217C	2030	2SC226F	2030	2SC238E	2009
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
2SC247D	2030	2SC268	2030	2SC282E	2009	2SC291R	2030	2SC308GN	2030	2SC317D	2009	2SC344	2010
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2SC263B	2010	2SC272R	2010	2SC286R	2010	2SC306K	2030	2SC315D	2009	2SC323R	2009	2SC352F	2009
2SC263C	2010	2SC272X	2010	2SC286X	2010	2SC306L	2030	2SC315E	2009	2SC323X	2009	2SC352G	2009
2SC263D	2010	2SC272Y	2010	2SC286Y	2010	2SC306M	2030	2SC315F	2009	2SC323Y	2009	2SC352GN	2009
2SC263E	2010	2SC280	2016	2SC289	2010	2SC306OR	2030	2SC315G	2009	2SC324	2009	2SC352H	2009
2SC263F	2010	2SC280AO	2009	2SC289A	2010	2SC306R	2030	2SC315GN	2009	2SC324A	2009	2SC352J	2009
2SC263G	2010	2SC281	2009	2SC289B	2010	2SC306X	2030	2SC315H	2009	2SC324B	2009	2SC352K	2009
2SC263GN	2010	2SC281(B)	2009	2SC289C	2010	2SC306Y	2030	2SC315J	2009	2SC324C	2009	2SC352L	2009
2SC263H	2010	2SC281-OR	2009	2SC289D	2010	2SC307	2030	2SC315K	2009	2SC324D	2009	2SC352M	2009
2SC263J	2010	2SC281A	2009	2SC289E	2010	2SC307(CB-FINAL)	2030	2SC315L	2009	2SC324E	2009	2SC352OR	2009
2SC263K	2010	2SC281B	2009	2SC289F	2010	2SC307-OR	2030	2SC315M	2009	2SC324F	2009	2SC352R	2009
2SC263L	2010	2SC281BL	2009	2SC289G	2010	2SC307A	2030	2SC315OR	2009	2SC324G	2009	2SC352X	2009
2SC263M	2010	2SC281C	2009	2SC289GN	2010	2SC307B	2030	2SC315R	2009	2SC324GN	2009	2SC352Y	2009
2SC263OR	2010	2SC281C-EP	2009	2SC289H	2010	2SC307C	2030	2SC315X	2009	2SC324H	2009	2SC353	2030
2SC263R	2010	2SC281D	2009	2SC289J	2010	2SC307D	2030	2SC315Y	2009	2SC324HA	2009	2SC353A	2030
2SC263X	2010	2SC281E	2009	2SC289K	2010	2SC307E	2030	2SC316	2009	2SC324J	2009	2SC353AC	2030
2SC263Y	2010	2SC281EP	2009	2SC289L	2010	2SC307F	2030	2SC316A	2009	2SC324K	2009	2SC353B	2030
2SC264	2009	2SC281F	2009	2SC289M	2010	2SC307G	2030	2SC316B	2009	2SC324L	2009	2SC353C	2030
2SC265	2009	2SC281G	2009	2SC289OR	2010	2SC307GN	2030	2SC316C	2009	2SC324M	2009	2SC353D	2030
2SC267	2009	2SC281GN	2009	2SC289R	2010	2SC307H	2030	2SC316D	2009	2SC324OR	2009	2SC353E	2030
2SC267A	2009	2SC281H	2009	2SC289X	2010	2SC307J	2030	2SC316E	2009	2SC324R	2009	2SC353F	2030
2SC267B	2009	2SC281HA	2009	2SC289Y	2010	2SC307K	2030	2SC316F	2009	2SC324X	2009	2SC353G	2030
2SC267C	2009	2SC281HB	2009	2SC291	2030	2SC307L	2030	2SC316G	2009	2SC324Y	2009	2SC353GN	2030
2SC267D	2009	2SC281HC	2009	2SC291A	2030	2SC307M	2030	2SC316GN	2009	2SC332	2009	2SC353H	2030
2SC267E	2009	2SC281J	2009	2SC291B	2030	2SC307OR	2030	2SC316H	2009	2SC333H	2009	2SC353J	2030
2SC267F	2009	2SC281K	2009	2SC291C	2030	2SC307R	2030	2SC316J	2009	2SC333HA	2009	2SC353K	2030
2SC267G	2009	2SC281L	2009	2SC291D	2030	2SC307T	2030	2SC316K	2009	2SC333HB	2009	2SC353L	2030
2SC267GN	2009	2SC281M	2009	2SC291E	2030	2SC307X	2030	2SC316L	2009	2SC333HC	2009	2SC353M	2030
2SC267H	2009	2SC281OR	2009	2SC291F	2030	2SC307Y	2030	2SC316M	2009	2SC334	2009	2SC353OR	2030
2SC267J	2009	2SC281R	2009	2SC291G	2030	2SC308	2030	2SC316OR	2009	2SC335	2009	2SC353R	2030
2SC267K	2009	2SC281X	2009	2SC291GN	2030	2SC308A	2030	2SC316R	2009	2SC336	2009	2SC353X	2030
2SC267L	2009	2SC281Y	2009	2SC291H	2030	2SC308B	2030	2SC316X	2009	2SC337	2009	2SC353Y	2030
2SC267M	2009	2SC282	2009	2SC291J	2030	2SC308C	2030	2SC316Y	2009	2SC337B	2009	2SC356	2009
2SC267OR	2009	2SC282A	2009	2SC291K	2030	2SC308D	2030	2SC317	2009	2SC338	2009	2SC356A	2009
2SC267R	2009	2SC282B	2009	2SC291L	2030	2SC308E	2030	2SC317A	2009	2SC339	2009	2SC356B	2009
2SC267X	2009	2SC282C	2009	2SC291M	2030	2SC308F	2030	2SC317B	2009	2SC342	2009	2SC356C	2009
2SC267Y	2009	2SC282D	2009	2SC291OR	2030	2SC308G	2030	2SC317C	2009	2SC343	2009	2SC356D	2009

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2SC356E	2009	2SC366H	2009	2SC370E	2059	2SC373GN	2009	2SC377X	2009	2SC380YEL	2009	2SC384F	2010
2SC356F	2009	2SC366J	2009	2SC370F	2059	2SC373GR	2009	2SC377Y	2009	2SC381	2010	2SC384G	2010
2SC356G	2009	2SC366K	2009	2SC370G	2059	2SC373H	2009	2SC378	2059	2SC381(BN)	2010	2SC384GN	2010
2SC356GN	2009	2SC366L	2009	2SC370GN	2059	2SC373J	2009	2SC378-O	2059	2SC301-0	2010	2SC384H	2010
2SC356H	2009	2SC366M	2009	2SC370H	2059	2SC373K	2009	2SC378-ORG	2059	2SC381-BN	2010	2SC384J	2010
2SC356J	2009	2SC366O	2009	2SC370I	2059	2SC373L	2009	2SC378-R	2059	2SC381-BRN	2010	2SC384K	2010
2SC356K	2009	2SC366OR	2009	2SC370J	2059	2SC373M	2009	2SC378-RED	2059	2SC381-O	2010	2SC384L	2010
2SC356L	2009	2SC366R	2009	2SC370K	2059	2SC373OR	2009	2SC378-Y	2059	2SC381-OR	2010	2SC384M	2010
2SC356M	2009	2SC366X	2009	2SC370L	2059	2SC373R	2009	2SC378-YEL	2059	2SC381-ORG	2010	2SC384OR	2010
2SC356OR	2009	2SC366Y	2009	2SC370M	2059	2SC373S	2009	2SC378A	2059	2SC381-R	2010	2SC384R	2010
2SC356R	2009	2SC367	2009	2SC370OR	2059	2SC373W	2009	2SC378B	2059	2SC381-RED	2010	2SC384X	2010
2SC356X	2009	2SC367-O	2009	2SC370R	2059	2SC373X	2009	2SC378C	2059	2SC381A	2010	2SC384Y	2010
2SC356Y	2009	2SC367-ORG-G	2009	2SC370X	2059	2SC373Y	2009	2SC378D	2059	2SC381B	2010	2SC385	2010
2SC360	2009	2SC367-R	2009	2SC370Y	2059	2SC374	2016	2SC378E	2059	2SC381BN	2010	2SC385A	2010
2SC360-OR	2009	2SC367-RED-G	2009	2SC371	2059	2SC374(BL)	2016	2SC378F	2059	2SC381BN-1	2010	2SC385B	2010
2SC360A	2009	2SC367-Y	2009	2SC371(0)	2059	2SC374(V)	2016	2SC378G	2059	2SC381BRN	2010	2SC385C	2010
2SC360B	2009	2SC367-YEL-G	2009	2SC371(O)	2059	2SC374-BL	2016	2SC378GN	2059	2SC381C	2010	2SC385D	2010
2SC360C	2009	2SC367A	2009	2SC371-0	2059	2SC374-OR	2016	2SC378H	2059	2SC381D	2010	2SC385E	2010
2SC360D	2009	2SC367AO	2009	2SC371-O	2059	2SC374-V	2016	2SC378J	2059	2SC381E	2010	2SC385F	2010
2SC360E	2009	2SC367AR	2009	2SC371-OR	2059	2SC374A	2016	2SC378K	2059	2SC381F	2010	2SC385G	2010
2SC360F	2009	2SC367AY	2009	2SC371-ORG-G	2059	2SC374B	2016	2SC378L	2059	2SC381G	2010	2SC385GN	2010
2SC360G	2009	2SC367B	2009	2SC371-R	2059	2SC374BL	2016	2SC378M	2059	2SC381GN	2010	2SC385H	2010
2SC360GN	2009	2SC367C	2009	2SC371-R-1	2059	2SC374BLK	2016	2SC378O	2059	2SC381H	2010	2SC385J	2010
2SC360H	2009	2SC367D	2009	2SC371-RED-G	2059	2SC374C	2016	2SC378OR	2059	2SC381J	2010	2SC305K	2010
2SC360J	2009	2SC367E	2009	2SC371-T	2059	2SC374D	2016	2SC378R	2059	2SC381K	2010	2SC385L	2010
2SC360K	2009	2SC367F	2009	2SC371A	2059	2SC374E	2016	2SC378X	2059	2SC381L	2010	2SC385M	2010
2SC360L	2009	2SC367G	2009	2SC371B	2059	2SC374F	2016	2SC378Y	2059	2SC381M	2010	2SC385OR	2010
2SC360M	2009	2SC367GN	2009	2SC371C	2059	2SC374G	2016	2SC379	2009	2SC381O	2010	2SC385R	2010
2SC360OR	2009	2SC367G-O	2009	2SC371D	2059	2SC374GN	2016	2SC379A	2009	2SC381OR	2010	2SC385X	2010
2SC360R	2009	2SC367G-R	2009	2SC371E	2059	2SC374H	2016	2SC379B	2009	2SC381R	2010	2SC305Y	2010
2SC360X	2009	2SC367G-Y	2009	2SC371F	2059	2SC374J	2016	2SC379C	2009	2SC381RED	2010	2SC386	2010
2SC360Y	2009	2SC367H	2009	2SC371G	2059	2SC374JA	2016	2SC379D	2009	2SC381RL	2010	2SC386-O	2010
2SC361	2059	2SC367J	2009	2SC371GN	2059	2SC374K	2016	2SC379E	2009	2SC381X	2010	2SC386A-0(TV)	2010
2SC361A	2059	2SC367K	2009	2SC371G-O	2009	2SC374L	2016	2SC379F	2009	2SC381Y	2010	2SC386A	2010
2SC361B	2059	2SC367L	2009	2SC371G-R	2059	2SC374M	2016	2SC379G	2009	2SC382	2058	2SC386AO	2010
2SC361C	2059	2SC367M	2009	2SC371H	2059	2SC374OR	2016	2SC379GN	2009	2SC382(BL)	2058	2SC386B	2010
2SC361D	2059	2SC367O	2009	2SC371J	2059	2SC374R	2016	2SC379H	2009	2SC382(BN)	2058	2SC386C	2010
2SC361E	2059	2SC367OR	2009	2SC371K	2059	2SC374V	2016	2SC379J	2009	2SC382(R)	2058	2SC386D	2010
2SC361F	2059	2SC367R	2009	2SC371L	2059	2SC374X	2016	2SC379K	2009	2SC382-BK	2058	2SC386E	2010
2SC361G	2059	2SC367X	2009	2SC371M	2059	2SC374Y	2016	2SC379L	2009	2SC382-BK(1)	2058	2SC386F	2010
2SC361GN	2059	2SC367Y	2009	2SC371O	2059	2SC375	2010	2SC379M	2009	2SC382-BK(2)	2058	2SC386G	2010
2SC361H	2059	2SC368	2016	2SC371OR	2059	2SC375-0	2010	2SC379OR	2009	2SC382-G	2058	2SC386GN	2010
2SC361J	2059	2SC368-BL	2016	2SC371R	2059	2SC375-O	2010	2SC379R	2009	2SC382-GR	2058	2SC386H	2010
2SC361K	2059	2SC368-GR	2016	2SC371R-1	2059	2SC375-Y	2010	2SC379X	2009	2SC382-GY	2058	2SC386J	2010
2SC361L	2059	2SC368A	2016	2SC371RED-G	2059	2SC375A	2010	2SC379Y	2009	2SC382-OR	2058	2SC386K	2010
2SC361M	2059	2SC368B	2016	2SC371T	2059	2SC375B	2010	2SC380	2009	2SC382-R	2058	2SC386L	2010
2SC361OR	2059	2SC368BL	2016	2SC371X	2059	2SC375C	2010	2SC380(R)	2009	2SC382-V	2058	2SC386M	2010
2SC361R	2059	2SC368C	2016	2SC371Y	2059	2SC375D	2010	2SC380/4454C	2009	2SC382A	2058	2SC386OR	2010
2SC361X	2059	2SC368D	2016	2SC372	2009	2SC375E	2010	2SC380-0/4454C	2009	2SC382B	2058	2SC386R	2010
2SC361Y	2059	2SC368E	2016	2SC372(H)	2009	2SC375F	2010	2SC380-BRN	2009	2SC382BK	2058	2SC386X	2010
2SC362	2059	2SC368F	2016	2SC372(O)	2009	2SC375G	2010	2SC380-O	2009	2SC382BK1	2058	2SC386Y	2010
2SC362A	2059	2SC368G	2016	2SC372(Y)	2009	2SC375GN	2010	2SC380-O/4454C	2009	2SC382BK2	2058	2SC387	2010
2SC362B	2059	2SC368GN	2016	2SC372/4454C	2009	2SC375H	2010	2SC380-OR	2009	2SC382BL	2058	2SC387-G	2010
2SC362C	2059	2SC368GR	2016	2SC372-0	2009	2SC375J	2010	2SC380-ORG	2009	2SC382BN	2058	2SC387-OR	2010
2SC362D	2059	2SC368H	2016	2SC372-1	2009	2SC375K	2010	2SC380-R	2009	2SC382BR	2058	2SC387A	2010
2SC362E	2059	2SC368J	2016	2SC372-2	2009	2SC375L	2010	2SC380-RED	2009	2SC382C	2058	2SC387A(FA-3)	2010
2SC362F	2059	2SC368K	2016	2SC372-O	2009	2SC375M	2010	2SC380-YEL	2009	2SC382D	2058	2SC387AG	2010
2SC362G	2059	2SC368L	2016	2SC372-OR	2009	2SC375OR	2010	2SC380A-0	2009	2SC382E	2058	2SC387B	2010
2SC362GN	2059	2SC368M	2016	2SC372-ORG	2009	2SC375R	2010	2SC380A-0(TV)	2009	2SC382F	2058	2SC387C	2010
2SC362H	2059	2SC368OR	2016	2SC372-ORG-G	2009	2SC375X	2010	2SC380A	2009	2SC382G	2058	2SC387D	2010
2SC362J	2059	2SC360R	2016	2SC372-R	2009	2SC376	2009	2SC380A(D)	2009	2SC382GN	2058	2SC387E	2010
2SC362K	2059	2SC368V	2016	2SC372-YEL-G	2009	2SC376A	2009	2SC380A(O)	2009	2SC382GR	2058	2SC387F	2010
2SC362L	2059	2SC360X	2016	2SC372-Z	2009	2SC376B	2009	2SC380A(R)	2009	2SC382GY	2058	2SC387FA3	2010
2SC362M	2059	2SC368Y	2016	2SC372A	2009	2SC376C	2009	2SC380A(Y)	2009	2SC382H	2058	2SC387G	2010
2SC362OR	2059	2SC369	2016	2SC372AR	2009	2SC376D	2009	2SC380A+O)	2009	2SC382J	2058	2SC307GN	2010
2SC362R	2059	2SC369-BL	2016	2SC372B	2009	2SC376E	2009	2SC380A-O	2009	2SC382K	2058	2SC387H	2010
2SC362X	2059	2SC369-BLU-G	2016	2SC372BL	2009	2SC376F	2009	2SC380AO	2009	2SC382L	2058	2SC307J	2010
2SC362Y	2059	2SC369-GR	2016	2SC372C	2009	2SC376G	2009	2SC380A-O(TV)	2009	2SC382M	2058	2SC387K	2010
2SC363	2009	2SC369-GRN-G	2016	2SC372D	2009	2SC376GN	2009	2SC380A-R	2009	2SC382OR	2058	2SC387L	2010
2SC363-OR	2009	2SC369-V	2016	2SC372E	2009	2SC376H	2009	2SC380AR	2009	2SC382R	2058	2SC307M	2010
2SC363A	2009	2SC369A	2016	2SC372F	2009	2SC376J	2009	2SC380A-R(TV)	2009	2SC382V	2058	2SC387OR	2010
2SC363B	2009	2SC369B	2016	2SC372G	2009	2SC376K	2009	2SC380ATV	2009	2SC382W	2058	2SC387R	2010
2SC363C	2009	2SC369BL	2016	2SC372GN	2009	2SC376L	2009	2SC380A-Y	2009	2SC382X	2058	2SC387X	2010
2SC363D	2009	2SC369C	2016	2SC372G-O	2009	2SC376M	2009	2SC380AY	2009	2SC382Y	2058	2SC387Y	2010
2SC363E	2009	2SC369D	2016	2SC372GR	2009	2SC376OR	2009	2SC380B	2009	2SC383	2009	2SC388	2009
2SC363F	2009	2SC369E	2016	2SC372G-Y	2009	2SC376R	2009	2SC380B-Y	2009	2SC383(T)	2009	2SC388-OR	2009
2SC363G	2009	2SC369F	2016	2SC372H	2009	2SC376X	2009	2SC380BY	2009	2SC383-OR	2009	2SC388A	2009
2SC363GN	2009	2SC369G	2016	2SC372J	2009	2SC376Y	2009	2SC380C	2009	2SC383A	2009	2SC388ATM	2009
2SC363H	2009	2SC369G/BL	2016	2SC372K	2009	2SC377	2009	2SC380C-Y	2009	2SC383B	2009	2SC388ATV	2009
2SC363J	2009	2SC369G/GR	2016	2SC372L	2009	2SC377-0	2009	2SC380CY	2009	2SC383C	2009	2SC308B	2009
2SC363K	2009	2SC369G-BL	2016	2SC372M	2009	2SC377-BN	2009	2SC380D	2009	2SC383D	2009	2SC388C	2009
2SC363L	2009	2SC369GBL	2016	2SC372O	2009	2SC377-BRN	2009	2SC380D-Y	2009	2SC383E	2009	2SC388D	2009
2SC363M	2009	2SC369G-GR	2016	2SC372OR	2009	2SC377-O	2009	2SC380DY	2009	2SC383F	2009	2SC388E	2009
2SC363OR	2009	2SC369GGR	2016	2SC372R	2009	2SC377-OR	2009	2SC300E	2009	2SC383G	2009	2SC388F	2009
2SC363R	2009	2SC369GN	2016	2SC372X	2009	2SC377-ORG	2009	2SC300E-Y	2009	2SC383GN	2009	2SC388G	2009
2SC363X	2009	2SC369GR	2016	2SC372Y	2009	2SC377-R	2009	2SC380EY	2009	2SC383H	2009	2SC388GN	2009
2SC363Y	2009	2SC369G-V	2016	2SC372Y1	2009	2SC377-RED	2009	2SC380F	2009	2SC383J	2009	2SC388H	2009
2SC364	2009	2SC369H	2016	2SC372YEL	2009	2SC377A	2009	2SC380F-Y	2009	2SC383K	2009	2SC388J	2009
2SC366	2009	2SC369J	2016	2SC372YEL-G	2009	2SC377B	2009	2SC380FY	2009	2SC383L	2009	2SC388K	2009
2SC366-0	2009	2SC369K	2016	2SC372Z	2009	2SC377BN	2009	2SC380G	2009	2SC383M	2009	2SC388L	2009
2SC366-O	2009	2SC369L	2016	2SC373	2009	2SC377BRN	2009	2SC380GN	2009	2SC383OR	2009	2SC388M	2009
2SC366-ORG-G	2009	2SC369M	2016	2SC373(GR)	2009	2SC377C	2009	2SC380H	2009	2SC383R	2009	2SC388OR	2009
2SC366-R	2009	2SC369OR	2016	2SC373-0	2009	2SC377D	2009	2SC380J	2009	2SC383T	2009	2SC388R	2009
2SC366-RED-G	2009	2SC369R	2016	2SC373-14	2009	2SC377E	2009	2SC380K	2009	2SC383W	2009	2SC388X	2009
2SC366-Y	2009	2SC369V	2016	2SC373-G	2009	2SC377F	2009	2SC380L	2009	2SC383X	2009	2SC388Y	2009
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2SC366B	2009	2SC369Y	2016	2SC373-OR	2009	2SC377GN	2009	2SC380O	2009	2SC384	2010	2SC389-0	2016
2SC366C	2009	2SC370	2059	2SC373A	2009	2SC377H	2009	2SC380OR	2009	2SC384(O)	2010	2SC389-O	2016
2SC366D	2009	2SC370-0	2059	2SC373AL	2009	2SC377J	2009	2SC380R	2009	2SC384(Y)	2010	2SC389-OR	2016
2SC366E	2009	2SC370-G	2059	2SC373B	2009	2SC377K	2009	2SC380R/4454C	2009	2SC384-0	2010	2SC309A	2016
2SC366F	2009	2SC370-O	2059	2SC373BL	2009	2SC377L	2009	2SC380RED	2009	2SC384-O	2010	2SC389AFP	2016
2SC366G	2009	2SC370-T	2059	2SC373C	2009	2SC377M	2009	2SC380T	2009	2SC384A	2010	2SC389B	2016
2SC366GN	2009	2SC370A	2059	2SC373D	2009	2SC377O	2009	2SC380TV	2009	2SC384B	2010	2SC389BLB-O	2016
2SC366G-O	2009	2SC370B	2059	2SC373E	2009	2SC377OR	2009	2SC380V	2009	2SC384C	2010	2SC309C	2016
2SC366G-R	2009	2SC370C	2059	2SC373F	2009	2SC377R	2009	2SC300X	2009	2SC384D	2010	2SC389D	2016
2SC366G-Y	2009	2SC370D	2059	2SC373G	2009	2SC377RED	2009	2SC380Y	2009	2SC384E	2010	2SC309E	2016

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2SC389F	2016	2SC400F	2009	2SC405X	2009	2SC455	2059	2SC459R	2009	2SC477OR	2016	2SC498D	2030
2SC389G	2016	2SC400G	2009	2SC405Y	2009	2SC455-OR	2059	2SC459X	2009	2SC477R	2016	2SC498E	2030
2SC389GN	2016	2SC400GN	2009	2SC406	2009	2SC455A	2059	2SC459Y	2009	2SC477X	2016	2SC498F	2030
2SC389H	2016	2SC400H	2009	2SC406A	2009	2SC455B	2059	2SC460	2009	2SC477Y	2016	2SC498G	2030
2SC389J	2016	2SC400J	2009	2SC406B	2009	2SC455C	2059	2SC460(A)	2009	2SC478	2009	2SC498GN	2030
2SC389K	2016	2SC400K	2009	2SC406C	2009	2SC455D	2059	2SC460(B)	2009	2SC478(D)	2009	2SC498H	2030
2SC389L	2016	2SC400L	2009	2SC406D	2009	2SC455E	2059	2SC460-5	2009	2SC478-4	2009	2SC498J	2030
2SC389LP	2016	2SC400M	2009	2SC406E	2009	2SC455F	2059	2SC460-B	2009	2SC478-O	2009	2SC498K	2030
2SC389M	2016	2SC400OR	2009	2SC406F	2009	2SC455G	2059	2SC460-C	2009	2SC478A	2009	2SC498L	2030
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2SC389X	2016	2SC401AK	2059	2SC406K	2009	2SC455L	2059	2SC460B	2009	2SC478F	2009	2SC498X	2030
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2SC394(0)	2059	2SC401D	2059	2SC406R	2009	2SC455X	2059	2SC460E	2009	2SC478J	2009	2SC499(R)	2059
2SC394(O)	2009	2SC401E	2059	2SC406X	2009	2SC455Y	2059	2SC460F	2009	2SC478K	2009	2SC499(Y)	2059
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2SC394-GR	2009	2SC401G	2059	2SC423	2009	2SC458	2009	2SC460GB	2009	2SC478M	2009	2SC499-R	2061
2SC394-GRN	2009	2SC401GN	2059	2SC423-O	2009	2SC458(C)	2009	2SC460GN	2009	2SC478OR	2009	2SC499-R(FA-1)	2061
2SC394-O	2009	2SC401H	2059	2SC423A	2009	2SC458(C,D)	2009	2SC460H	2009	2SC478R	2009	2SC499-RED	2059
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2SC400E	2009	2SC405R	2009	2SC454Y	2009	2SC459OR	2009	2SC477M	2016	2SC498C	2030	2SC504GR	2030

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
2SC504H	2030	2SC536ET	2009	2SC538T	2009	2SC562G	2016	2SC587X	2009	2SC613A	2010	2SC629E	2058
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2SC532	2009	2SC537C	2059	2SC556	2058	2SC564Y	2009	2SC595X	2009	2SC620Y	2009	2SC633F	2009
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
2SC641G	2009	2SC649M	2009	2SC662G	2010	2SC682(B)	2016	2SC689GN	2009	2SC705L	2010	2SC711M	2009
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2SC649C	2009	2SC659Y	2010	2SC674CL	2010	2SC688R	2058	2SC705A	2010	2SC711C	2009	2SC716A	2059
2SC649D	2010	2SC660	2016	2SC674CV	2010	2SC688X	2058	2SC705B	2010	2SC711D	2009	2SC716B	2059
2SC649E	2009	2SC661	2016	2SC674CZ	2010	2SC688Y	2058	2SC705C	2010	2SC711E	2009	2SC716C	2059
2SC649F	2009	2SC662	2010	2SC674D	2010	2SC689	2009	2SC705D	2010	2SC711F	2009	2SC716D	2059
2SC649G	2009	2SC662A	2010	2SC674E	2010	2SC689A	2009	2SC705E	2010	2SC711FG	2009	2SC716E	2059
2SC649GN	2009	2SC662B	2010	2SC674F	2010	2SC689B	2009	2SC705F	2010	2SC711G	2009	2SC716F	2059
2SC649H	2009	2SC662C	2010	2SC674G	2010	2SC689C	2009	2SC705G	2010	2SC711GN	2009	2SC716G	2059
2SC649J	2009	2SC662D	2010	2SC674V	2010	2SC689D	2009	2SC705GN	2010	2SC711H	2009	2SC716GN	2059
2SC649K	2009	2SC662E	2010	2SC678	2041	2SC689E	2009	2SC705J	2010	2SC711J	2009	2SC716H	2059
2SC649L	2009	2SC662F	2010	2SC682	2016	2SC689G	2009	2SC705K	2010	2SC711L	2009	2SC716J	2059

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2SC716K	2059	2SC732S	2016	2SC735G	2059	2SC752G-R	2009	2SC772CK	2058	2SC784C	2058	2SC789H	2020
2SC716L	2059	2SC732V	2016	2SC735GN	2059	2SC752G-Y	2009	2SC772CL	2058	2SC784D	2058	2SC789J	2020
2SC716M	2059	2SC732V10	2016	2SC735GR	2059	2SC752H	2009	2SC772CS	2058	2SC784E	2058	2SC789K	2020
2SC716OR	2059	2SC732VIO	2016	2SC735GRN	2059	2SC752J	2009	2SC772CU	2058	2SC784F	2058	2SC789L	2020
2SC716R	2059	2SC732X	2016	2SC735H	2059	2SC752K	2009	2SC772CV	2058	2SC784G	2058	2SC789M	2020
2SC716X	2059	2SC732Y	2016	2SC735J	2059	2SC752L	2009	2SC772CX	2058	2SC784GN	2058	2SC789OR	2020
2SC716Y	2059	2SC733	2016	2SC735K	2059	2SC752M	2009	2SC772D	2058	2SC784H	2058	2SC789R	2020
2SC717	2010	2SC733(GR)	2016	2SC735L	2059	2SC752OR	2009	2SC772DJ	2058	2SC784J	2058	2SC789X	2020
2SC717B	2010	2SC733-0	2016	2SC735M	2059	2SC752R	2009	2SC772DU	2058	2SC784K	2058	2SC789Y	2020
2SC717BK	2010	2SC733-B	2016	2SC735O	2059	2SC752X	2009	2SC772DV	2058	2SC784L	2058	2SC790	2020
2SC717BLK	2010	2SC733-BLU	2016	2SC735OR	2059	2SC752Y	2009	2SC772DX	2058	2SC784M	2058	2SC790(O)	2020
2SC717C	2010	2SC733-G	2016	2SC735ORN	2059	2SC754	2009	2SC772DY	2058	2SC784O	2058	2SC790-O	2020
2SC717E	2010	2SC733-GRN	2016	2SC735R	2059	2SC755	2009	2SC772E	2058	2SC784OR	2058	2SC790Y	2020
2SC717F	2010	2SC733-O	2016	2SC735RED	2059	2SC75[illegible]OR	2058	2SC772F	2058	2SC784Q	2058	2SC793	2041
2SC717G	2010	2SC733-OR	2016	2SC735X	2059	2SC760	2041	2SC772G	2058	2SC784R	2058	2SC793-BLU	2041
2SC717GN	2010	2SC733-ORG	2016	2SC735Y	2059	2SC761	2016	2SC772GN	2058	2SC784R/4454C	2058	2SC793-R	2041
2SC717H	2010	2SC733-Y	2016	2SC735Y/4454C	2059	2SC761(Y)	2016	2SC772H	2058	2SC784RA	2058	2SC793-RED	2041
2SC717K	2010	2SC733-YEL	2016	2SC735YEL	2059	2SC761A	2016	2SC772J	2058	2SC784RED	2058	2SC793-YEL	2041
2SC717L	2010	2SC733A	2016	2SC737	2009	2SC761B	2016	2SC772K	2058	2SC784X	2058	2SC793A	2041
2SC717M	2010	2SC733B	2016	2SC737Y	2009	2SC761C	2016	2SC772KB	2058	2SC784Y	2058	2SC793B	2041
2SC717X	2010	2SC733BL	2016	2SC738	2010	2SC761D	2016	2SC772KC	2058	2SC785	2058	2SC793BL	2041
2SC718	2009	2SC733BLK	2016	2SC738A	2010	2SC761E	2016	2SC772KD	2058	2SC785(E)(D)	2058	2SC793C	2041
2SC719	2059	2SC733BLU	2016	2SC738B	2010	2SC761F	2016	2SC772KD1	2058	2SC785(O)	2058	2SC793E	2041
2SC719Q	2059	2SC733C	2016	2SC738C	2010	2SC761G	2016	2SC772KD2	2058	2SC785-0	2058	2SC793F	2041
2SC720	2016	2SC733D	2016	2SC738D	2010	2SC761GN	2016	2SC772L	2058	2SC785-B	2058	2SC793G	2041
2SC721	2009	2SC733E	2016	2SC738E	2010	2SC761H	2016	2SC772M	2058	2SC785-BN	2058	2SC793GN	2041
2SC722	2010	2SC733ER	2016	2SC738F	2010	2SC761J	2016	2SC772OR	2058	2SC785-BRN	2058	2SC793H	2041
2SC723	2010	2SC733F	2016	2SC738G	2010	2SC761K	2016	2SC772R	2058	2SC785-O	2058	2SC793J	2041
2SC723BL	2010	2SC733G	2016	2SC738GN	2010	2SC761L	2016	2SC772RB-D	2058	2SC785-ORG	2058	2SC793K	2041
2SC724	2059	2SC733GN	2016	2SC738H	2010	2SC761M	2016	2SC772RD	2058	2SC785-R	2058	2SC793L	2041
2SC724B	2059	2SC733GR	2016	2SC738J	2010	2SC761OR	2016	2SC772RS-D	2058	2SC785-RED	2058	2SC793M	2041
2SC724G	2059	2SC733GRN	2016	2SC738K	2010	2SC761R	2016	2SC772X	2058	2SC785-Y	2058	2SC793OR	2041
2SC724V	2059	2SC733H	2016	2SC738L	2010	2SC761X	2016	2SC772Y	2058	2SC785-YEL	2058	2SC793R	2041
2SC724X	2059	2SC733J	2016	2SC738M	2010	2SC761Y	2016	2SC773	2059	2SC785A	2058	2SC793X	2041
2SC725	2059	2SC733K	2016	2SC738OR	2010	2SC761Z	2016	2SC773(BCE)	2059	2SC785B	2058	2SC793Y	2041
2SC725-O	2059	2SC733L	2016	2SC738R	2010	2SC762	2016	2SC773(E)	2059	2SC785BL	2058	2SC794	2041
2SC725B	2059	2SC733M	2016	2SC738X	2010	2SC762B	2016	2SC773A	2059	2SC785BN	2058	2SC794A	2041
2SC725G	2059	2SC733O	2016	2SC738Y	2010	2SC762C	2016	2SC773B	2059	2SC785BR	2058	2SC794B	2041
2SC725V	2059	2SC733OR	2016	2SC739	2010	2SC762D	2016	2SC773C	2059	2SC785BRN	2058	2SC794C	2041
2SC725Y	2059	2SC733Q	2016	2SC739A	2010	2SC762E	2016	2SC773C(BCE)	2059	2SC785C	2058	2SC794D	2041
2SC726	2009	2SC733R	2016	2SC739B	2010	2SC762F	2016	2SC773D	2059	2SC785D	2058	2SC794E	2041
2SC727	2061	2SC733S	2016	2SC739C	2010	2SC762G	2016	2SC773D(BCE)	2059	2SC785E	2058	2SC794F	2041
2SC727A	2061	2SC733S-BL	2016	2SC739D	2010	2SC762GN	2016	2SC773E	2059	2SC785F	2058	2SC794G	2041
2SC727B	2061	2SC733V	2016	2SC739E	2010	2SC762H	2016	2SC773E(BCE)	2059	2SC785G	2058	2SC794GN	2041
2SC727C	2061	2SC733X	2016	2SC739F	2010	2SC762J	2016	2SC773F	2059	2SC785GN	2058	2SC794H	2041
2SC727D	2061	2SC733Y	2016	2SC739G	2010	2SC762K	2016	2SC773G	2059	2SC785GR	2058	2SC794J	2041
2SC727E	2061	2SC733YEL	2016	2SC739GN	2010	2SC762L	2016	2SC773GN	2059	2SC785H	2058	2SC794K	2041
2SC727F	2061	2SC734	2059	2SC739H	2010	2SC762M	2016	2SC773H	2059	2SC785K	2058	2SC794L	2041
2SC727G	2061	2SC734(O)	2059	2SC739K	2010	2SC762R	2016	2SC773J	2059	2SC785L	2058	2SC794OR	2041
2SC727GN	2061	2SC734(R)	2059	2SC739L	2010	2SC762X	2016	2SC773K	2059	2SC785M	2058	2SC794R	2041
2SC727H	2061	2SC734(Y)	2059	2SC739M	2010	2SC762Y	2016	2SC773L	2059	2SC785O	2058	2SC794RA	2041
2SC727J	2061	2SC734-0	2059	2SC739OR	2010	2SC763	2010	2SC773M	2059	2SC785R	2058	2SC794X	2041
2SC727K	2061	2SC734-G	2059	2SC739R	2010	2SC763-OR	2010	2SC773OR	2059	2SC785RA	2058	2SC794Y	2041
2SC727L	2061	2SC734-GRN	2059	2SC739Y	2010	2SC763A	2010	2SC773R	2059	2SC785RED	2058	2SC796	2009
2SC727M	2061	2SC734-O	2059	2SC740	2010	2SC763B	2010	2SC773X	2059	2SC785V	2058	2SC796A	2009
2SC727R	2061	2SC734-OR	2059	2SC740A	2010	2SC763C	2010	2SC773Y	2059	2SC785X	2058	2SC796B	2009
2SC727X	2061	2SC734-ORG	2059	2SC740B	2010	2SC763CD	2010	2SC780	2061	2SC785Y	2058	2SC796C	2009
2SC727Y	2061	2SC734-OY	2059	2SC740C	2010	2SC763D	2010	2SC780-O	2061	2SC785YEL	2058	2SC796D	2009
2SC728	2061	2SC734-R	2059	2SC740D	2010	2SC763E	2010	2SC780-ORG-G	2061	2SC786	2016	2SC796E	2009
2SC728A	2061	2SC734-RED	2059	2SC740E	2010	2SC763F	2010	2SC780-R	2061	2SC786A	2016	2SC796F	2009
2SC728B	2061	2SC734-YEL	2059	2SC740F	2010	2SC763G	2010	2SC780-RED-G	2061	2SC786B	2016	2SC796G	2009
2SC728C	2061	2SC734A	2059	2SC740G	2010	2SC763GN	2010	2SC780-Y	2061	2SC786C	2016	2SC796GN	2009
2SC728D	2061	2SC734B	2059	2SC740GN	2010	2SC763H	2010	2SC780-YEL-G	2061	2SC786D	2016	2SC796H	2009
2SC728E	2061	2SC734C	2059	2SC740H	2010	2SC763J	2010	2SC780A	2061	2SC786E	2016	2SC796J	2009
2SC728F	2061	2SC734D	2059	2SC740J	2010	2SC763K	2010	2SC780A/G	2061	2SC786F	2016	2SC796K	2009
2SC728G	2061	2SC734E	2059	2SC740K	2010	2SC763L	2010	2SC780AG-0	2061	2SC786G	2016	2SC796L	2009
2SC728GN	2061	2SC734F	2059	2SC740L	2010	2SC763M	2010	2SC780AG	2061	2SC786GN	2016	2SC796M	2009
2SC728H	2061	2SC734G	2059	2SC740M	2010	2SC763OR	2010	2SC780AG-O	2061	2SC786H	2016	2SC796OR	2009
2SC728J	2061	2SC734GN	2059	2SC740OR	2010	2SC763X	2010	2SC780AG-R	2061	2SC786J	2016	2SC796R	2009
2SC728K	2061	2SC734GR	2059	2SC740R	2010	2SC763Y	2010	2SC780AG-Y	2061	2SC786K	2016	2SC796X	2009
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2SC728M	2061	2SC734H	2059	2SC740Y	2010	2SC765	2041	2SC780C	2061	2SC786M	2016	2SC797	2030
2SC728O	2061	2SC734J	2059	2SC744	2030	2SC766	2041	2SC780D	2061	2SC786OR	2016	2SC797A	2009
2SC728R	2061	2SC734K	2059	2SC744A	2030	2SC767	2041	2SC780E	2061	2SC786R	2016	2SC797B	2009
2SC728X	2061	2SC734K/GR	2059	2SC748	2010	2SC771	2058	2SC780F	2061	2SC786X	2016	2SC797C	2009
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2SC732	2016	2SC734M	2059	2SC748C	2010	2SC771B	2058	2SC780GA	2061	2SC787	2016	2SC797E	2009
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2SC732-G	2016	2SC734R	2059	2SC748F	2010	2SC771D	2058	2SC780G-R	2061	2SC787C	2016	2SC797GN	2009
2SC732-GRN	2016	2SC734RED	2059	2SC748G	2010	2SC771E	2058	2SC780G-Y	2061	2SC787D	2016	2SC797H	2009
2SC732-OR	2016	2SC734X	2059	2SC748GN	2010	2SC771F	2058	2SC780H	2061	2SC787E	2016	2SC797J	2009
2SC732-V	2016	2SC734Y	2059	2SC748H	2010	2SC771G	2058	2SC780J	2061	2SC787F	2016	2SC797K	2009
2SC732-V10	2016	2SC734YEL	2059	2SC748J	2010	2SC771GN	2058	2SC780K	2061	2SC787G	2016	2SC797L	2009
2SC732-VIO	2016	2SC735	2059	2SC748K	2010	2SC771H	2058	2SC780L	2061	2SC787GN	2016	2SC797M	2009
2SC732A	2016	2SC735(0)	2059	2SC748L	2010	2SC771J	2058	2SC780M	2061	2SC787H	2016	2SC797OR	2009
2SC732B	2016	2SC735(FA-3)	2059	2SC748M	2010	2SC771K	2058	2SC780O	2061	2SC787K	2016	2SC797R	2009
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2SC732C	2016	2SC735-GRN	2059	2SC748Y	2010	2SC771R	2058	2SC780Y	2061	2SC787R	2016	2SC801	2030
2SC732D	2016	2SC735-O	2059	2SC751	2016	2SC771X	2058	2SC784	2058	2SC787X	2016	2SC802	2030
2SC732E	2016	2SC735-OR	2059	2SC752	2009	2SC771Y	2058	2SC784(BN)	2058	2SC787Y	2016	2SC811	2016
2SC732F	2016	2SC735-ORG	2059	2SC752-ORG-G	2009	2SC772	2058	2SC784-0	2058	2SC789	2020	2SC812	2009
2SC732G	2016	2SC735-ORN	2059	2SC752-RED-G	2009	2SC772-OR	2058	2SC784-6	2058	2SC789-0	2020	2SC814C	2009
2SC732GN	2016	2SC735-OY	2059	2SC752-YEL-G	2009	2SC772A	2058	2SC784-B	2058	2SC789-O	2020	2SC814D	2009
2SC732GR	2016	2SC735-R	2059	2SC752A	2009	2SC772B	2058	2SC784-BRN	2058	2SC789-R	2020	2SC814E	2009
2SC732GR/4454C	2016	2SC735-RED	2059	2SC752B	2009	2SC772BG	2058	2SC784-O	2058	2SC789-Y	2020	2SC814F	2009
2SC732GRB	2016	2SC735-YEL	2059	2SC752C	2009	2SC772BH	2058	2SC784-OR	2058	2SC789A	2020	2SC814G	2009
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2SC732H	2016	2SC735B	2059	2SC752E	2009	2SC772BX	2058	2SC784-RED	2058	2SC789C	2020	2SC814H	2009
2SC732J	2016	2SC735C	2059	2SC752F	2009	2SC772BY	2058	2SC784A	2058	2SC789D	2020	2SC814J	2009
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2SC732M	2016	2SC735E	2059	2SC752GA	2009	2SC772C1	2058	2SC784BN	2058	2SC789F	2020	2SC814M	2009
2SC732OR	2016	2SC735F	2059	2SC752GN	2009	2SC772C2	2058	2SC784BN-1	2058	2SC789G	2020	2SC814OR	2009
2SC732R	2016	2SC735FA3	2059	2SC752G-O	2009	2SC772CA	2058	2SC784BRN	2058	2SC789GN	2020	2SC814R	2009

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2SC814X	2009
2SC814Y	2009
2SC815	2059
2SC815(M)	2059
2SC815-1	2059
2SC815-O	2059
2SC815A	2059
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2SC827Y	2030
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2SC828(N)	2009
2SC828(O)	2009
2SC828(P)	2009
2SC828(P)(Q)	2016
2SC828(Q)	2009
2SC828(R)	2009
2SC828(R)(S)	2016
2SC828(R,Q,P)	2009
2SC828(R,S,T)	2009
2SC828(S)	2009
2SC828(T)	2009
2SC828-O	2009
2SC828-OP	2009
2SC828-OR	2009
2SC828-P	2009
2SC828-Q	2009
2SC828-R	2009
2SC828A	2009
2SC828A(P)	2009
2SC828A(Q)	2009
2SC828A(R)	2009
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2SC828W	2009
2SC828X	2009
2SC828Y	2009
2SC828YL	2009
2SC829	2009
2SC829(Y)	2009
2SC829/4454C	2009
2SC829-OR	2009
2SC829A	2009
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
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2SC1045C	2055	2SC1070	2016	2SC1129B	2058	2SC1175F	2059	2SC1222	2016	2SC1317	2059	2SC1335R	2016
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2SC1045E	2055	2SC1072	2030	2SC1129C	2058	2SC1182	2058	2SC1222B	2016	2SC1317(S)	2059	2SC1335Y	2016
2SC1045F	2055	2SC1072A	2030	2SC1129G	2058	2SC1182B	2016	2SC1222C	2016	2SC1317-OR	2059	2SC1336	2016
2SC1045G	2055	2SC1079	2041	2SC1129M	2058	2SC1182C	2016	2SC1222D	2016	2SC1317A	2059	2SC1336JK	2016
2SC1045GN	2055	2SC1079R	2041	2SC1129R	2058	2SC1182D	2016	2SC1222E	2016	2SC1317B	2059	2SC1342	2010
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2SC1045K	2055	2SC1080-R	2030	2SC1132	2055	2SC1184B	2055	2SC1236	2058	2SC1317D	2059	2SC1342(C)	2010
2SC1045L	2055	2SC1080R	2041	2SC1133	2055	2SC1184C	2055	2SC1240	2058	2SC1317E	2059	2SC1342-OR	2010
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2SC1046J	2055	2SC1101L	2055	2SC1166GR	2059	2SC1209D	2009	2SC1247AFG	2059	2SC1318B	2059	2SC1342Y	2010

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2SC1343	2041	2SC1390V	2009	2SC1540	2009	2SC1684QR	2059	2SC1834	2009	2SC2027	2055	2SC2320LE	2009
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2SC1343BL	2041	2SC1390WI	2009	2SC1543	2058	2SC1684S	2016	2SC1849	2009	2SC2053	2009	2SC2362	2016
2SC1343C	2041	2SC1390WX	2009	2SC1544	2009	2SC1684T	2016	2SC1850	2009	2SC2055	2009	2SC2363	2009
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2SC3940J	2050
2SC3940K	2058
2SC3940L	2058
2SC3940M	2058
2SC3940OR	2058
2SC3940R	2058
2SC3940X	2050
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2SD228OR	2059	2SD312D	2055	2SD327OR	2009	2SD389BP	2020	2SD654	2030	2SJ2A	1104	3-1477	1144
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2SD234D	2020	2SD313(DE)	2020	2SD341	2041	2SD392(BCE)	2009	2SD726C	2020	2SO34	2041	3A256	1104
2SD234E	2020	2SD313A	2020	2SD341H	2041	2SD392C(BCE)	2009	2SD726D	2020	2SO35	2041	3A258	1114
2SD234F	2020	2SD313B	2020	2SD342	2020	2SD392D(BCE)	2009	2SD734	2009	2SO36	2041	3A300	1144
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121-854	2020
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
465-191-15	2007	519LS060M	2009	537FS	2010	561-2602-300	561	561-4800-577	2007	561-4804-423	2023	576-0003-002	2018
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1027G(GE)	2030
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1030(G.E.)	2055
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1032	2007
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7002	2009
7005G(LOWREY)	2009
7006	2009
7014	2009
7015	2009
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
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A-1005-725	2023	A-1054-0291-1	2041	A9228-3	1103	A631790L	2055	A7580111	1114	AC107M	2007	AC-155	2007
A1024	1124	A-1854-0294-1	2041	A-10105	1104	A650232E	2023	A7978850	1104	AC107N	2007	AC155	2007
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A1086	2009	A-1854-0358-1	2061	A-10113	1104	A650238A	2023	A-11095924	2009	AC109	2007	AC156	2007
A1087	2009	A-1854-0365-1	2061	A10113	1104	A650372D	2023	A11159761	1103	AC110	2007	AC160	2007
A1109	2010	A-1854-0408-1	2009	A-10118	1104	A650923F	2023	A-11166527	2041	AC-113	2007	AC160-G	2007

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AC160-GRN	2007	ACY44-1	2007	AF133	2007	AH810	1114	AM-G-5A	1114	AR200	2010	ASY50	2007
AC160-RED	2007	ACZ	2007	AF134	2007	AH814	1114	AM-G-5C	1114	AR200(GREEN)	2010	ASY51	2007
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AC160-VIO	2007	AD-1UF	1104	AF136	2007	AH1005	1114	AM-G-22	1104	AR200W	2010	ASY54	2007
AC160-YEL	2007	AD10	1104	AF-137	2007	AH1010	1114	AM-G22	1104	AR200WHITE	2009	ASY55	2007
AC160A	2007	AD29	1114	AF137	2007	AH1015	1114	AMP2919-2	2041	AR-201	2009	ASY56	2007
AC160B	2007	AD29A-4	2023	AF137A	2007	AIE	2016	AMP-2971-4	2030	AR201	2010	ASY56N	2007
AC160GRN	2007	AD29A-5	2023	AF138	2007	AJ5	1104	AMU6A7723393	1740	AR201(Y)	2009	ASY57	2007
AC160RED	2007	AD29A-6	2023	AF138/20	2007	AJ10	1104	AN	2009	AR201(YELLOW)	2010	ASY57N	2007
AC160YEL	2007	AD29A-9	2023	AF138/290	2007	AJ15	1104	AN-1	1104	AR201Y	2010	ASY58	2007
AC-161	2007	AD29E-1	2023	AF139	2007	AJ20	1104	AN221	1759	AR201YELLOW	2009	ASY58N	2007
AC161	2007	AD29E-2	2023	AF142	2007	AJ25	1104	AN-240	1759	AR-202	2009	ASY59	2007
AC-162	2007	AD29E4	2023	AF143	2007	AJ-30	1104	AN240	1759	AR202	2010	ASY63	2007
AC162	2007	AD29E5	2023	AF144	2007	AJ30	1104	AN240A	1759	AR202(GREEN)	2010	ASY63N	2007
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AC165	2007	AD29E9	2023	AF149	2007	AJ60	1104	AN240PN	1759	AR203(RED)	2030	ASY70-V	2009
AC-166	2007	AD29E10	2023	AF150	2007	AL210	2007	AN240S	1759	AR203R	2030	ASY70-VI	2007
AC-167	2007	AD30	1102	AF164	2007	ALB6494612	2020	AN-G-5B	1104	AR204	2009	ASY76	2007
AC-168	2007	AD30A1	2023	AF165	2007	ALD-35	2009	AN-G5B	1114	AR205	2009	ASY77	2007
AC168	2007	AD30A2	2023	AF-166	2007	ALD-3141	2009	ANJ101	2023	AR206	2009	ASY80	2007
AC-169	2007	AD30A3	2023	AF166	2007	ALS-8922	2009	AO1	2007	AR208	2009	ASY82	2007
AC169	2007	AD30A4	2023	AF167	2007	ALZ10	2007	AO4091A	2007	AR209	2016	ASY84	2007
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AC-175B	2009	AD150(DIODE)	1102	AF172	2007	AM020	1104	AO4093-A	1104	AR213(V)	2016	ASZ20	2007
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AC177	2007	AD200(DIODE)	1102	AF179	2007	AM025	1104	AO4166-2	564	AR213V	2016	ASZ21	2007
AC182	2007	AD4001	1104	AF180	2007	AM-030	1104	AO4210A	1104	AR213VIOLET	2016	ASZ30	2007
AC-183(PNP)	2007	AD4002	1114	AF181	2007	AM030	1104	AO4212-A	1104	AR218	2058	AT0017	2059
AC184	2007	AD4003	1114	AF-182	2007	AM-035	1104	AO4212-B	1104	AR218(ORANGE)	2016	AT0025	2059
AC-186(PNP)	2007	AD4004	1114	AF182	2007	AM035	1104	AO4233	1104	AR218(RED)	2016	AT0025A	2059
AC191	2007	AD4005	1114	AF185	2007	AM040	1104	AO4234-2	562	AR218(RO)	2016	AT0045	2059
AC192	2007	AD4006	1114	AF186	2007	AM050	1104	AO4716	1104	AR218RO	2016	AT/AF1	2007
AC200	1114	AD4007	1114	AF186G	2007	AM-060	1104	AO4727	1101	AR219	2016	AT/AF2	2007
AC300	1144	ADC0801	1792	AF186W	2007	AM060	1104	AO4901A	1104	AR219(YY)	2016	AT/RF1	2007
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AC9083	2023	AE1B	1114	AF193	2007	AM-6-5	1104	APB-11A-1008	2007	AR220(GY)	2016	AT-1	2007
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ACR83-1002	2007	AE3A	1141	AF202	2007	AM43	1104	AQ2	2030	AR222	2016	AT5	2007
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ACR83-1008	1104	AE-50	2007	AF251	2007	AM300	1102	AQ6	2009	AR222YELLOW	2016	AT-8	2007
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ACR810-102	2007	AE100	1102	AF253	2007	AM301	1102	AR15	2041	AR224(WHITE)	2010	AT-10	2041
ACR810-103	2007	AE150	1102	AF256	2007	AM301A	1102	AR15-L8-0026	2041	AR224(YELLOW)	2010	AT10H	2007
ACR810-104	2007	AE200	1102	AF267	2007	AM302	1102	AR16	1104	AR224WHITE	2016	AT10M	2007
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ACR810-107	1123	AEX79846	2041	AF306	2007	AM303A	1102	AR17GREY	2020	AR304(GREEN)	2023	AT-12	2030
ACR810-108	1104	AEX-82308	2041	AF367	2007	AM304	1102	AR19	1104	AR306	2009	AT12	2030
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ACY17	2007	AF101	2007	AF699	2023	AM305	1102	AR21	1104	AR306(ORANGE)	2009	AT13	2007
ACY17-1	2007	AF102	2007	AF3570	2023	AM305A	1102	AR22	1104	AR306BLUE	2030	AT-14	2007
ACY-18	2007	AF105	2007	AF3590	2023	AM306	1102	AR-22(DIO)	1104	AR306ORANGE	2030	AT14	2007
ACY18	2007	AF-105A	2007	AF21490	2023	AM306A	1102	AR22(RECTIFIER)	1104	AR308(VIOLET)	2023	AT-15	2007
ACY18-1	2007	AF105A	2007	AFC3527	2009	AM307	1102	AR-22(XSTR)	2020	AR313	2010	AT15	2007
ACY-19	2007	AF-106	2007	AFCS1170F	2023	AM307A	1102	AR23	1114	AR882	1104	AT16	2007
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ACY22-1	2007	AF113	2007	AFY12	2007	AM445	1104	AR25(WHITE)	2010	AS-5	1104	AT74S	2007
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ACY24	2007	AF117	2007	AFY18E	2007	AM632	1102	AR35	2020	AS15	1104	AT313	2010
ACY27	2007	AF117C	2007	AFY19	2007	AM632A	1102	AR37(GREEN)	2027	AS33867	2007	AT314	2010
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ACY29	2007	AF118	2007	AFY37	2007	AMF104	2041	AR38	2020	AS34280	2007	AT316	2010
ACY30	2007	AF119	2007	AFY39	2007	AMF105	2041	AR38(RED)	2020	ASY-24	2007	AT318	2010
ACY31	2007	AF120	2007	AFY40	2007	AMF115	2041	AR38RED	2020	ASY24	2007	AT319	2010
ACY-32	2007	AF-121	2007	AFY40K	2007	AMF116	2041	AR44	2027	ASY24B	2007	AT321	2010
ACY32	2007	AF121	2007	AFY40R	2007	AMF117	2041	AR-102	2007	ASY-26	2007	AT322	2010
ACY32-V	2007	AF121S	2007	AFY41	2007	AMF117A	2041	AR-103	2007	ASY26	2007	AT323	2010
ACY32-VI	2007	AF122	2007	AFY42	2007	AMF118	2041	AR103	2007	ASY26-RT	2007	AT324	2010
ACY32V	2007	AF124	2007	AFZ11	2007	AMF118A	2041	AR-104	2007	ASY-27	2007	AT325	2010
ACY32VI	2007	AF125	2007	AFZ12	2007	AMF119	2041	AR104	2007	ASY27	2007	AT326	2010
ACY34	2007	AF126	2007	AFZ23	2007	AMF119A	2041	AR-105	2007	ASY30	2007	AT327	2010
ACY35	2007	AF127	2007	AG30	1102	AMF120	2041	AR105	2007	ASY31	2007	AT328	2010
ACY36	2007	AF127,01	2007	AG100D	1104	AMF120A	2041	AR-107	2009	ASY32	2007	AT329	2009
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ACY40	2007	AF129	2007	AG100J	1104	AMF201	2041	AR-108	2009	ASY48-IV	2007	AT331	2023
ACY41	2007	AF130	2007	AG134	2007	AMF210	2041	AR108	2009	ASY48-V	2007	AT331A	2023
ACY41-1	2007	AF131	2007	AH14	1114	AMF210A	2041	AR111	2016	ASY48-VI	2007	AT332	2023
ACY44	2007	AF132	2007	AH805	1114	AM-G-5	1104	AR-200	2009	ASY49	2007	AT332A	2023

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AT341	2016	AT494	2009	B1H5	1114	B4F1	1104	B7K5	1114	B61	2007	B155	2007
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AT355	2016	ATC-TR-7	2030	B1N-1	2023	B4K9	1114	B12-1A21	2009	B66-2A21	2007	B156P	2007
AT356	2016	ATC-TR-13	2030	B1N-2	2023	B4M1	1114	B22	2007	B66-3-A-21	2007	B157	2007
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AT416	2023	AZ-061	561	B2G5	1104	B5H1	1114	B30C250	1104	B77(B)	2007	B172-90	1114
AT416-1	2023	AZ-063	561	B2G9	1104	B5H5	1114	B30C250-1	1104	B77A	2007	B172-100	1114
AT417	2023	AZ-090	562	B2H1	1114	B5H9	1114	B30C350-1	1104	B77AA	2007	B172A	2007
AT417-1	2023	AZ-092	562	B2H5	1114	B5K1	1114	B30C500	1104	B77AB	2007	B172AF	2007
AT418	2023	AZ5.1	565	B2H9	1114	B5K5	1114	B30C600	1104	B77AC	2007	B172B	2007
AT418-1	2023	AZ6.2	561	B2K1	1114	B5K9	1114	B30C600CB	1104	B77AD	2007	B172C	2007
AT419	2023	AZ9.1	562	B2K5	1114	B5M1	1114	B30C1000	1171	B77AH	2007	B172D	2007
AT419-1	2023	AZ12	563	B2K9	1114	B5M5	1114	B-30P	1123	B77AP	2007	B172E	2007
AT420	2009	AZ-15	564	B2M-1	2023	B5M9	1114	B-31	1104	B77B	2007	B172F	2007
AT421	2009	AZ15	564	B2M1	1114	B6A1	1114	B31	1104	B77B-11	2007	B172H	2007
AT422	2009	AZ-120	563	B2M-2	2023	B6A5	1114	B31(RECTIFIER)	1104	B77C	2007	B172P	2007
AT423	2009	AZ-145	564	B2M-3	2023	B6A9	1114	B32	2007	B77D	2007	B172R	2007
AT424	2009	AZ-150	564	B2M5	1114	B6B1	1114	B32-0	2007	B77H	2007	B173	2007
AT425	2009	AZ751	565	B2M9	1114	B6B5	1114	B32-1	2007	B77V	2007	B173A	2007
AT426	2009	AZ751A	565	B2S	2023	B6B9	1114	B32-2	2007	B77VRED	2007	B173B	2007
AT427	2009	AZ753A	561	B2Y	2023	B6C1	1114	B32-4	2007	B78	2007	B173C	2007
AT430	2023	AZ757A	562	B2Z	2010	B6C5	1114	B32N	2007	B79	2007	B173L	2007
AT430-1	2023	AZ759	563	B3	2010	B6C9	1114	B33	2007	B07J0007	2030	B174	2007
AT431	2023	AZ759A	563	B3A1	1104	B6D1	1114	B33-4	2007	B80B-1-21	2007	B175	2007
AT431-1	2023	AZ960B	562	B3A5	1104	B6D5	1114	B33C	2007	B88C-1-21	2007	B175A	2007
AT432	2023	AZ963	563	B3A9	1104	B6D9	1114	B33D	2007	B89	2007	B175B	2007
AT432-1	2023	AZ963A	563	B3B1	1104	B6E1	1114	B33E	2007	B89A	2007	B175C	2007
AT433	2023	AZ963B	563	B3B5	1104	B6E5	1114	B33F	2007	B89AH	2007	B175E	2007
AT433-1	2023	AZ965	564	B3B9	1104	B6E9	1114	B34	2007	B89H	2007	B176	2007
AT434	2023	AZ965A	564	B3C1	1104	B6F1	1114	B34N	2007	B90	2007	B176-O	2007
AT434-1	2023	AZ965B	564	B3C5	1104	B6F5	1114	B35C600	1104	B91	1104	B176-P	2007
AT435	2023	AZG	2010	B3C9	1104	B6F9	1114	B37	2007	B92	2007	B176-PR	2007
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AT436	2023	A.184/5	2009	B3D5	1104	B6G5	1114	B37B	2007	B95	2007	B176M	2007
AT436-1	2023	B004B	1171	B3D9	1104	B6G9	1114	B37C	2007	B97	2007	B176P	2007
AT437	2023	B004E	1173	B3E1	1104	B6H1	1114	B37E	2007	B98	2007	B176PRC	2007
AT437-1	2023	B01-02	1104	B3E5	1104	B6H5	1114	B37F	2007	B100	2007	B176R	2007
AT438	2023	B090	562	B3E9	1104	B6H9	1114	B38	2007	B101	2007	B177	2007
AT438-1	2023	B0102	1104	B3F1	1104	B6K1	1114	B39	2007	B102	2007	B177(JAPAN)	2007
AT440	2030	B0316451	1759	B3F5	1104	B6K5	1114	B40	2007	B103	2007	B178	2007
AT441	2030	B0319200	705	B3F9	1104	B6K9	1114	B41-04	1104	B104	2007	B178(JAPAN)	2007
AT442	2030	B0470130	2413	B3G1	1104	B6M1	1114	B43	2007	B110(TRANSISTOR)	2007	B178-O	2007
AT443	2030	B-722246-2	2009	B3G5	1104	B6M5	1114	B43A	2007	B111	1102	B178-S	2007
AT444	2030	B1A1	1104	B3G9	1104	B6M9	1114	B44	2007	B111K	2007	B178A	2007
AT445	2030	B1A5	1104	B3H1	1114	B6P	2009	B46	2007	B112	2007	B178C	2007
AT446	2030	B1A9	1104	B3H5	1114	B7A1	1114	B47	2007	B113	2007	B178D	2007
AT451	2023	B1B	1104	B3H9	1114	B7A5	1114	B48	2007	B114	2007	B178M	2007
AT451-1	2023	B1B1	1104	B3K1	1114	B7A9	1114	B49	2007	B115	2007	B178N	2007
AT452	2023	B1B5	1104	B3K5	1114	B7B1	1114	B50	1104	B116	2007	B178T	2007
AT452-1	2023	B1B9	1104	B3K9	1114	B7B5	1114	B51	1104	B117	2007	B178U	2007
AT453	2023	B1C1	1104	B3M1	1114	B7B9	1114	B51(JAPAN)	2007	B117K	2007	B178V	2007
AT453-1	2023	B1C5	1104	B3M5	1114	B7C1	1114	B52	2007	B120	2007	B178X	2007
AT454	2023	B1C9	1104	B3M9	1114	B7C5	1114	B53	2007	B131	2020	B178Y	2007
AT454-1	2023	B1D	2020	B-3P	1123	B7C9	1114	B54	2007	B132	2027	B183	2007
AT455	2023	B1D1	1104	B4	2010	B7D1	1114	B54B	2007	B134(JAPAN)	2007	B184	2007
AT455-1	2023	B1D5	1104	B4A1	1104	B7D5	1114	B54E	2007	B134-D	2007	B185	2007
AT470	2030	B1D9	1104	B4A5	1104	B7D9	1114	B54F	2007	B134-E	2007	B185(0)	2007
AT471	2030	B1E1	1104	B4A9	1104	B7E1	1114	B54Y	2007	B135	2007	B185(O)	2007
AT472	2030	B1E5	1104	B4B1	1104	B7E5	1114	B55(TRANSISTOR)	2007	B135B	2007	B185AA	2007
AT473	2030	B1E9	1104	B4B5	1104	B7E9	1114	B56	2007	B135C	2007	B185F	2007
AT474	2030	B1F1	1104	B4B9	1104	B7F1	1114	B56-15	1143	B135E	2007	B185P	2007
AT475	2030	B1F5	1104	B4C1	1104	B7F5	1114	B56-33	1143	B136	2007	B186	2007

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B186(0)	2007	B303-3	2007	B444B	2007	B4004B	2007	BA104	1104	BC20C	2016	BC152	2009
B186(SANYO)	2007	B303A	2007	B459	2007	B5000	2020	BA105	1104	BC25BB	2023	BC153	2023
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B186-K	2007	B303C	2007	B459A	2007	B5020	2041	BA114	1102	BC-71	2009	BC154	2023
B186A	2007	B303H	2007	B459B	2007	B5021	2020	BA119	1104	BC71	2009	BC154-1	2023
B186AG	2007	B303K	2007	B459C	2007	B5022	2020	BA127	1104	BC103	2030	BC155	2010
B186B	2007	B314	2007	B459D	2007	B5031	2020	BA128	1104	BC103C	2030	BC155A	2010
B186BY	2007	B315	2007	B460	2007	B5032	2020	BA129	1104	BC-107	2009	BC155B	2009
B186G	2007	B316	2007	B460A	2007	B-6002	564	BA130	1104	BC107	2009	BC155C	2016
B186H	2007	B317	2007	B460B	2007	B-6288	2023	BA136A	1141	BC-107A	2009	BC156	2010
B186L	2007	B321	2007	B470	2007	B-6340	2030	BA-142-01	1104	BC107A	2009	BC156A	2010
B186Y	2007	B322	2007	B475	2007	B9426	2010	BA142-01	1104	BC107B	2009	BC156B	2009
B187	2007	B323	2007	B475A	2007	B-12822-2	2041	BA147	1102	BC-108	2009	BC156C	2016
B187(1)	2007	B326	2007	B475B	2007	B17307	2041	BA153	1104	BC108	2009	BC157	2023
B187(SANYO)	2007	B327	2007	B475D	2007	B36564	1104	BA167	1102	BC108A	2009	BC157-1	2023
B187AA	2007	B328	2007	B475E	2007	B54731-30	2023	BA168	1102	BC-108B	2009	BC157A	2023
B187B	2007	B329	2007	B475F	2007	B-75561-31	2023	BA170	1102	BC108B	2009	BC157B	2023
B187C	2007	B329K	2007	B475G	2007	B-75568-2	2010	BA174	1102	BC108C	2009	BC157VI	2061
B187D	2007	B335	2007	B475P	2007	B-75583-1	2009	BA178	1141	BC109	2009	BC158	2023
B187G	2007	B336	2007	B475Q	2007	B-75583-2	2009	BA187	1102	BC-109B	2009	BC158-1	2023
B187K	2007	B345	2007	B482	2007	B-75583-202	2009	BA202	1103	BC109B	2009	BC158A	2023
B187R	2007	B346	2007	B486	2007	B-75583-102	2009	BA208	2055	BC109BP	2009	BC158A-1	2023
B187RED	2007	B346K	2007	B496	2007	B-75589-3	2009	BA216	1102	BC109C	2009	BC158B	2023
B187S	2007	B346G	2007	B497	2007	B-75589-13	2009	BA219	1102	BC110	2009	BC158B-1	2023
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B189	2007	B348R	2007	B509	2027	B133578	2009	BA317	1103	BC 114	2009	BC159-1	2023
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B202	2007	B370AB	2007	B514	2027	B143018	2020	BACSHIMI	1103	BC117	2030	BC167	2009
B218	2007	B370AC	2007	B515	2027	B143019	2020	BACSIM1	1103	BC118	2009	BC-167-B	2009
B219	2007	B370AHA	2007	B516C	2007	B143026	2020	BACT2F	2009	BC-119	2030	BC167A	2059
B220	2007	B370AHB	2007	B516CD	2007	B143027	2020	BAW10TF20	1102	BC-121	2009	BC167B	2059
B220A	2007	B370[illegible]	2007	B516D	2007	B170000	2041	BAW11TF21	1102	BC121	2010	BC168	2009
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B221A	2007	B370D	2007	B532	2043	B170000-ORG	2041	BAW13TF23	1102	BC122	2010	BC168B	2059
B222	2007	B370P	2007	B532P	2043	B170000-ORN	2041	BAW16	1102	BC-123	2009	BC168C	2059
B223	2007	B370PB	2007	B532Q	2043	B170000-R	2041	BAW17	1102	BC123	2010	BC169	2009
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B223-40	1114	B371D	2007	B534	2007	B170000BLK	2041	BAW24A	1102	BC125B	2009	BC-169B	2009
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B224	2007	B377	2007	B555-0	2043	B170001-B	2041	BAW25A	1102	BC127	2016	BC169C	2009
B224(JAPAN)	2007	B377B	2007	B555-O	2043	B170001-BLK	2041	BAW25B	1102	BC128	2016	BC169CL	2009
B225	2007	B378	2007	B561	2023	B170001-BRN	2041	BAW45	1102	BC129	2009	BC170	2016
B226	2007	B378A	2007	B561B	2023	B170001-O	2041	BAW53	1102	BC129A	2009	BC170A	2016
B227	2007	B379	2007	B561C	2023	B170001-ORG	2041	BAW59	1102	BC129B	2009	BC170B	2016
B238C18	2009	B379-2	2007	B601-1006	2007	B170001-R	2041	BAW59A	1102	BC130	2009	BC170C	2016
B240	2007	B379A	2007	B601-1007	2007	B170001-RED	2041	BAW59B	1102	BC130A	2009	BC171	2009
B240A	2007	B379B	2007	B601-1008	2007	B170001-Y	2041	BAW62	1103	BC130B	2009	BC171A	2009
B241	2007	B380	2007	B601-1009	2007	B170001BLK	2041	BAW63A	1102	BC131	2009	BC171B	2009
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B266Q	2007	B411	2027	B-1882U	1104	B170006-B	2055	BAY36	1102	BC141-10	2030	BC178-1	2023
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B26[illegible]	2007	B417	2007	B2090	562	B170009	2041	BAY41A	1102	BC-142	2030	BC178A-1	2023
B269	2007	B421	2007	B2406C	1104	B170010	2041	BAY41B	1102	BC142	2030	BC178B	2023
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B270C	2007	B434	2027	B3046	2020	B170015	2041	BAY72	1102	BC146Y	2009	BC178V	2023
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B271	2007	B434-R	2027	B3543	2020	B170019	2041	BAY87	1104	BC147B	2009	BC178V1-1	2023
B272	2007	B434-Y	2027	B3544	2020	B170020	2041	BAY90	1114	BC148	2009	BC179	2023
B273	2007	B435	2027	B3547	2020	B170021	2041	BB1A	1104	BC-148A	2009	BC179-1	2023
B274(SYLVANIA)	2030	B435-0	2027	B3548	2020	B170022	2041	BB-2	1104	BC148A	2009	BC179A	2023
B290	2007	B435-O	2027	B3550	2020	B170024	2041	BB2A1B4	1104	BC-148B	2009	BC179A-1	2023
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B294(TRANSISTOR)	2007	B443A	2007	B3586	2020	BA71	2009	BB117	1104	BC149C	2009	BC181A	2023
B299	2007	B443B	2007	B3588	2020	BA-100	1104	BB127	1104	BC149G	2009	BC181A-1	2023
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B303(TRANSISTOR)	2007	B444A	2007	B3746	2030	BA-104	1104	BC17LB-1	2023	BC151	2009	BC182A	2059

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
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BCZ10	2023	BD575	2020	BF182	2016	BF308	2058	BFS16F	2010	BFV82A	2023	BFY24	2009
BCZ10A	2023	BD577	2020	BF183	2016	BF310	2058	BFS16G	2010	BFV82B	2023	BFY25	2009
BCZ10B	2023	BD579	2020	BF183A	2009	BF311	2058	BFS17	2010	BFV82C	2023	BFY26	2009
BCZ10C	2023	BD585	2020	BF184	2016	BF314	2058	BFS17R	2010	BFV83	2010	BFY27	2030
BCZ11	2023	BD587	2020	BF185	2016	BF321A	2009	BFS18	2010	BFV83A	2010	BFY28	2009
BCZ11A	2023	BD589	2020	BF187	2010	BF321B	2009	BFS18CA	2016	BFV83B	2009	BFY-29	2009
BCZ12	2023	BD591	2020	BF188	2010	BF321C	2009	BFS18R	2010	BFV83C	2009	BFY29	2009
BCZ12A	2023	BD596	2027	BF189	2009	BF321D	2009	BFS19	2010	BFV85	2009	BFY-30	2009
BCZ12B	2023	BD633	2020	BF194	2058	BF321E	2009	BFS19CB	2009	BFV85A	2009	BFY30	2009
BCZ12C	2023	BD635	2020	BF194A	2010	BF321F	2009	BFS19R	2010	BFV85B	2009	BFY33	2009
BCZ13	2023	BD643	2068	BF194B	2010	BF322	2030	BFS20	2010	BFV85C	2009	BFY34	2030
BCZ13A	2023	BD645	2068	BF195	2058	BF329	2010	BFS20R	2010	BFV85D	2010	BFY-37	2010
BCZ13B	2023	BD733	2020	BF195C	2010	BF332	2010	BFS26	2023	BFV85E	2010	BFY37	2009
BCZ13C	2023	BD735	2020	BF195D	2010	BF333	2010	BFS26A	2023	BFV85F	2010	BFY37I	2009
BCZ13D	2023	BD737	2020	BF196	2058	BF333C	2010	BFS26B	2023	BFV85G	2010	BFY-39	2009
BCZ13E	2023	BDOA	1171	BF197	2010	BF333D	2010	BFS26C	2023	BFV86	2023	BFY39	2009
BCZ13F	2023	BDX10	2041	BF198	2058	BF334	2010	BFS26D	2023	BFV86A	2023	BFY39/1	2009
BCZ13G	2023	BDX11	2041	BF199	2058	BF335	2010	BFS26E	2023	BFV86B	2023	BFY39/2	2009
BCZ13H	2023	BDX18	2043	BF200	2016	BF340	2023	BFS26F	2023	BFV86C	2023	BFY39/3	2009
BCZ14	2023	BDX18N	2043	BF-200(PENNCREST)		BF340A	2023	BFS26G	2023	BFV87	2009	BFY39/1	2061
BCZ14A	2023	BDX24	2041		2016	BF340B	2023	BFS27E	2016	BFV88	2009	BFY39-1	2016
BCZ14B	2023	BDX25	2020	BF200(ZENITH)	2010	BF340C	2023	BFS27F	2016	BFV88A	2009	BFY39-2	2016
BCZ14C	2023	BDX27	2027	BF206	2016	BF340D	2023	BFS27G	2016	BFV88B	2009	BFY39-3	2016
BCZ14D	2023	BDX27-6	2027	BF207	2016	BF341A	2023	BFS29	2030	BFV88C	2009	BFY39I	2009
BCZ14E	2023	BDX27-10	2027	BF208	2016	BF341B	2023	BFS31	2023	BFV89	2016	BFY40	2030
BCZ14F	2023	BDX28	2027	BF209	2016	BF341C	2023	BFS31P	2009	BFV89A	2016	BFY44	2030
BD0A	1104	BDX28-6	2027	BF212	2016	BF341D	2023	BFS32	2023	BFW20	2023	BFY46	2030
BD-1A	1104	BDX28-10	2027	BF213	2016	BF342	2023	BFS32P	2023	BFW21	2023	BFY-47	2010
BD2	1123	BDX29	2020	BF-214	2009	BF342A	2023	BFS33	2023	BFW22	2023	BFY47	2010
BD3A-1B4	1171	BDX29-6	2020	BF214	2016	BF342B	2023	BFS33P	2023	BFW29	2009	BFY-48	2010
BD-3A1B4	1171	BDX29-10	2020	BF-215	2009	BF342C	2023	BFS34P	2023	BFW31	2023	BFY48	2010
BD4	1123	BDX30	2020	BF215	2016	BF342D	2023	BFS36	2030	BFW32	2009	BFY49	2010
BD6	1123	BDX30-6	2020	BF216	2010	BF343	2023	BFS36A	2009	BFW41	2016	BFY50	2030
BD7	1123	BDX30-10	2020	BF217	2010	BF344	2016	BFS36B	2009	BFW46	2009	BFY51	2030
BD71	2010	BDX70	2020	BF218	2010	BF345	2016	BFS36C	2009	BFW57	2061	BFY52	2030
BD106	2020	BDX71	2020	BF219	2010	BF357	2010	BFS37	2023	BFW58	2061	BFY53	2030
BD106A	2020	BDX72	2020	BF220	2010	BF362	2016	BFS37A	2023	BFW59	2009	BFY55	2030
BD106B	2020	BDX73	2020	BF222	2016	BF363	2016	BFS38	2009	BFW60	2009	BFY56	2030
BD-107	1104	BDX74	2020	BF223	2010	BF364	2058	BFS38A	2009	BFW63	2016	BFY56A	2030
BD-107(RECT.)	1104	BDX75	2020	BF224	2058	BF365	2058	BFS39	2009	BFW64	2010	BFY56B	2030
BD107A	2020	BDX91	2041	BF224J	2009	BF366	2030	BFS40	2023	BFW68	2009	BFY66	2030

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BFY67	2030	BLY4B	2041	BSVB9	2009	BSX52	2009	BSY89	2009	BY156	1114	BZX46C12	563
BFY67A	2030	BLY61	2030	BSV90	2009	BSX52A	2009	BSY90	2030	BY164	1171	BZX-46C15	564
BFY67C	2030	BLY63	2020	BSV91	2009	BSX53	2009	BSY91	2009	BY172	1114	BZX46C15	564
BFY60	2030	BLY79	2020	BSV92	2058	BSX54	2009	BSY92	2030	BY173	1114	BZX55C6V2	561
BFY68A	2030	BLY88	2020	BSV96	2023	BSX59	2030	BSY93	2009	BY179	1173	BZX55C9V1	562
BFY69	2010	BLY89	2020	BSV97	2023	BSX60	2030	BSY-95	2010	BY201	1144	BZX55C12	563
BFY69A	2010	BLY92	2020	BSV98	2023	BSX61	2030	BSY95	2009	BY206	1144	BZX55C15	564
BFY69B	2016	BMT1991	2023	BSW10	2030	BSX62	2030	BSY95A	2009	BY401	1104	BZX71C5V1	565
BFY70	2030	BMT2303	2023	BSW11	2009	BSX62B	2030	BSY165	2009	BY402	1104	BZX71C9V1	562
BFY72	2009	BMT2411	2023	BSW12	2009	BSX62C	2030	BSY168	2009	BY403	1104	BZX71C12	563
BFY73	2009	BMT2412	2023	BSW13	2016	BSX62D	2030	BT67	2009	BY404	1104	BZX-71C15	564
BFY74	2009	BN-66	2009	BSW19	2009	BSX63B	2030	BT71	2009	BY405	1104	BZX71C15	564
BFY75	2009	BN7133	2041	BSW20	2023	BSX63C	2030	BT82	2023	BY406	1104	BZX79C5V1	565
BFY76	2009	BN7214	2041	BSW21	2023	BSX66	2009	BT-94	2009	BY407	1104	BZX79C6V2	561
BFY77	2009	BN7517	2009	BSW-21A	2023	BSX67	2009	BT100A-300R	1020	BY1001	1114	BZX79C9V1	562
BFY78	2010	BN7518	2009	BSW21A	2023	BSX68	2009	BT832	2023	BY1002	1114	BZX79C12	563
BFY79	2016	BN7551	563	BSW-22	2023	BSX69	2009	BT929	2016	BY1101	1114	BZX-79C15	564
BFY80	2030	BO-71	2010	BSW22	2023	BSX70	2030	B-T-1000-139	2010	BY1102	1114	BZX79C15	564
BFY85	2009	BO8875/2	2023	BSW-22A	2023	BSX71	2030	B-T1000-139	2010	BY1200	1114	BZXB3C5V1	565
BFY86	2009	BO316415	1759	BSW22A	2023	BSX72	2030	BTB1000	1114	BY1201	1114	BZX83C6V2	561
BFY87	2016	BO319200	705	BSW-24	2023	BSX75	2009	BTM-50	1141	BY1202	1114	BZX83C12	563
BFY87A	2016	BO470016	2401	BSW24	2023	BSX76	2009	BTM50	1104	BYX10	1114	BZX83C15	564
BFY88	2016	BO470116	2411	BSW26	2030	BSX77	2009	BTM1000	1114	BYX12/400	1114	BZX5565V1	565
BFY90(SIEG)	2009	BP67	2009	BSW27	2030	BSX7B	2009	BTX-068	2016	BYX13/600	1114	BZY18	563
BFY90B	2010	BP5263	2007	BSW28	2030	BSX79	2009	BTX068	2009	BYX22/200	1104	BZY-19	564
BFY94	2023	BPS-S-50	1103	BSW29	2030	BSX79A	2009	BTX-070	2009	BYX22/400	1104	BZY19	564
BFY99	2030	BQ67	2009	BSW32	2059	BSX79B	2009	BTX070	2007	BYX22/600	1104	BZY57	565
BFY167	2016	BQ-94	2009	BSW33	2009	BSX80	2009	BTX-084	2023	BYX22/800	1114	BZY59	561
BFY371	2009	BR-1	1171	BSW34	2009	BSX81	2009	BTX-094	2009	BYX26-60	1114	BZY63	562
BFY391	2009	BR42	1104	BSW35	2030	BSX81A	2009	BTX-095	2009	BYX30/150	1143	BZY65	565
BFY501	2061	BR44	1104	BSW39	2009	BSX81B	2009	BTX-096	2009	BYX36/150	1104	BZY69	563
BG-66	2009	BR46	1104	BSW39-6	2030	BSX87	2009	BTX-2367B	2009	BYX36/300	1104	BZY83/C5V1	565
BG71	2009	BR47	1104	BSW39-10	2030	BSX88	2009	BTX2367B	2009	BYX36/600	1104	BZY83/C15	564
BG-94	2009	BR48	1104	BSW39-16	2030	BSX89	2009	BU67	2009	BYX36-150	1114	BZY83/C16	564
BG5534S	019	BR52	1104	BSW41	2009	BSX90	2009	BU71	2009	BYX36-300	1104	BZY83/CV51	565
BH4R1	1104	BR-66	2009	BSW42	2009	BSX91	2009	BU105	2055	BYX36-600	1104	BZY83/D15	564
BH4R6	1114	BR67	2009	BSW42A	2009	BSX92	2010	BU105-02	2055	BYX38	1114	BZY83C5V1	565
BH71	2009	BR-82	2023	BSW43	2009	BSX93	2010	BU108	2055	BYX45-600R	1114	BZY83C6V2	561
BH-DX0038CEZZ	1104	BR-101B	2020	BSW43A	2009	BSX94A	2009	BU115	2055	BYX45-800R	1114	BZY83C12	563
BI71	2009	BR101B	2020	BSW-44	2023	BSX95	2030	BU204	2055	BYX45-1000R	1114	BZY-83C15	564
BIP7201	2009	BR-832	2023	BSW44	2023	BSX96	2030	BU205	2055	BYX58-50	1102	BZY83C15	564
BIW	2009	BR51400-1	1104	BSW-44A	2023	BSX97	2009	BU206	2055	BYX58-100	1102	BZY83C16	564
BJ1A	2023	BR51401-2	1104	BSW44A	2023	BSY10	2009	BU207	2055	BYX58-200	1102	BZY83D12	563
BJ1B	2023	BRC-116	2041	BSW-45	2023	BSY11	2009	BU209	2055	BYX60-50	1104	BZY-83D15	564
BJ1C	2023	BRC5296	2020	BSW45	2023	BSY17	2009	BU225	2055	BYX60-100	1104	BZY83D15	564
BJ2	2023	BRC-5496	2020	BSW-45A	2023	BSY18	2009	BU500	2055	BYX60-200	1104	BZY85/C5V1	565
BJ2A	2023	BRN-SPEC-24-12	1103	BSW45A	2023	BSY19	2009	BUC-97704-2	2009	BYX60-300	1104	BZY85/C15	564
BJ2B	2023	BS08H	1001	BSW49	2030	BSY20	2009	BUC97704-2	2009	BYX60-400	1104	BZY85/D15	564
BJ2C	2023	BS1	1104	BSW51	2009	BSY21	2009	BUY10	2041	BYX60-500	1104	BZY85C5V1	565
BJ2D	2023	BS2	1104	BSW52	2009	BSY22	2010	BUY11	2041	BYX60-600	1104	BZY85C6V2	561
BJ3	2023	BS-66	2009	BSW53	2009	BSY23	2010	BUY24	2020	BYX60-700	1114	BZY85C12	563
BJ3A	2023	BS67	2009	BSW58	2009	BSY24	2009	BUY44	2041	BYX55009	1114	BZY85C15	564
BJ3B	2023	BS-94	2009	BSW65	2030	BSY25	2009	BV25	1104	BYY-31	1104	BZY85D12	563
BJ4	2023	BS475	2009	BSW66	2030	BSY26	2009	BV67	2009	BYY31	1104	BZY85D15	564
BJ4A	2023	B59011G	2009	BSW-72	2023	BSY27	2009	BV71	2009	BYY-32	1104	BZY88/6V2	561
BJ4B	2023	BSA01	1102	BSW72	2023	BSY28	2009	BW67	2009	BYY32	1104	BZY88/C5V1	565
BJ4C	2023	BSA02	1102	BSW-73	2023	BSY29	2009	BW71	2009	BYY33	1104	BZY88/C6V2	561
BJ4D	2023	BSA11	1102	BSW73	2023	BSY34	2009	BX090	562	BYY34	1104	BZY88/C9V1	562
BJ5	2023	BS-B1	1171	BSW-74	2023	BSY38	2009	BX67	2009	BYY-35	1104	BZY88/C9V5	562
BJ5A	2023	BS-84	1173	BSW74	2023	BSY39	2009	BX71	2009	BYY35	1104	BZY88/C9V7	565
BJ5B	2023	BSS10	2009	BSW-75	2023	BSY-40	2023	BX909	562	BYY36	1104	BZY88C5V1	565
BJ6	2023	BSS21	2009	BSW75	2023	BSY40	2023	BXY10	1114	BYY37	1114	BZY88C12	563
BJ6A	2023	BSS22	2009	BSW81	2023	BSY-41	2023	BXY63	562	BYY60	1114	BZY88C15	564
BJ6B	2023	BSS26	2009	BSW82	2009	BSY41	2023	BY12-00	1114	BYY61	1114	BZY92/C5V1	565
BJ6C	2023	BSS28	2030	BSW83	2009	BSY44	2030	BY67	2009	BYY89	1104	BZY92/C15	564
BJ6D	2023	BSS29	2030	BSW84	2009	BSY45	2030	BY71	2009	BYY91	1114	BZY92C5V1	565
BJ7	2023	BSS38	2061	BSW85	2009	BSY46	2030	BY100	1114	BZ-050	565	BZY92C6V2	561
BJ7A	2023	BSS40	2030	BSW88	2009	BSY48	2009	BY100S	1114	BZ050	565	BZY92C9V1	562
BJ7B	2023	BSS41	2030	BSW88A	2009	BSY49	2009	BY101	1104	BZ-061	561	BZY92C12	563
BJ7C	2023	BSV21	2023	BSW88B	2009	BSY51	2030	BY102	1104	BZ-063	561	BZY92C15	564
BJ7D	2023	BSV21A	2023	BSW89	2009	BSY52	2030	BY104	1114	BZ090	562	BZY94/C12	563
BJ8	2023	BSV35	2010	BSW89A	2009	BSY53	2030	BY105	1114	BZ-090(DIODE)	1123	BZY94/C15	564
BJ8A	2023	BSV35A	2009	BSW89B	2009	BSY54	2030	BY106	1104	BZ090.1Z9	562	BZY94C12	563
BJ8B	2023	BSV35B	2010	BSW92	2009	BSY55	2030	BY107	1104	BZ-092	562	BZY94C15	564
BJ8C	2023	BSV35C	2010	BSX12	2010	BSY56	2030	BY108	1114	BZ-094	562	C00-68602300	2009
BJ8D	2023	BSV35D	2010	BSX12A	2030	BSY58	2009	BY109	1114	BZ094	562	C00-686-0241	2023
BJ9	2023	BSV40	2009	BSX19	2009	BSY59	2009	BY111	1104	BZ-0900	562	C00686-0258-0	2023
BJ9A	2023	BSV41	2009	BSX21	2061	BSY61	2009	BY112	1104	BZ-0901	562	C0068602720	2023
BJ9B	2023	BSV42	2023	BSX23	2030	BSY-62	2010	BY113	1104	BZ/88/C4V7	565	C08P1R	1101
BJ9C	2023	BSV43A	2023	BSX24	2009	BSY62	2009	BY114	1104	BZ1-9	562	C049	1144
BJ9D	2023	BSV44A	2023	BSX25	2009	BSY62A	2009	BY115	1104	BZ1-90	562	C0410	1114
BJ10	2023	BSV45A	2023	BSX26	2010	BSY63	2009	BY116	1104	BZ5.1	565	C1B	1104
BJ11	2023	BSV46	2023	BSX27	2010	BSY68	2061	BY117	1104	BZ6.2	561	C1H	1104
BJ11A	2023	BSV47A	2023	BSX30	2009	BSY70	2009	BY118	1114	BZ9.1	562	C1.0E02	1114
BJ11B	2023	BSV48A	2023	BSX33	2030	BSY71	2030	BY119	1114	BZ12	563	C2AJ102	1104
BJ12	2023	BSV49A	2023	BSX35	2010	BSY-72	2010	BY121	1104	BZ67	2009	C6	2055
BJ12B	2023	BSV51	2030	BSX36	2023	BSY72	2009	BY122	1171	BZ71	2009	C6A	1067
BJ12C	2023	BSV52	2010	BSX38	2009	BSY-73	2010	BY124	1104	BZ-120	563	C6B	1067
BJ13	2023	BSV52R	2010	BSX38A	2009	BSY73	2009	BY125	1104	BZ120	563	C6B3	1067
BJ13A	2023	BSV53	2009	BSX38B	2009	BSY-74	2010	BY126	1104	BZ-145	564	C6F	1067
BJ13B	2023	BSV53P	2010	BSX44	2009	BSY74	2009	BY126/50	1114	BZ-150	564	C6U	1067
BJ14	2023	BSV54	2009	BSX45	2030	BSY75	2009	BY126/100	1114	BZ150	564	C7	2023
BJ14A	2023	BSV54P	2010	BSX45-6	2030	BSY76	2009	BY126/200	1114	BZ1021V4	1102	C7A4	1067
BJ15	2023	BSV55	2009	BSX45-10	2030	BSY77	2030	BY126/300	1114	BZX10	561	C8	2023
BJ56	2023	BSV55A	2023	BSX45-16	2030	BSY78	2030	BY126/400	1114	BZX14	562	C9FF-10A580	2030
BJ160	2023	BSV55AP	2023	BSX46	2030	BSY79	2061	BY-127	1104	BZX17	563	C11S1C1E1C	1104
BJ161	2023	BSV55P	2023	BSX46-6	2030	BSY-80	2010	BY127/500	1114	BZ-X19	564	C12(TRANSISTOR)	2030
BJ161A	2023	BSV59	2009	BSX46-10	2030	BSY80	2009	BY127/600	1114	BZX19	564	C15(TRANSISTOR)	2009
BJ161B	2023	BSV65FA	2009	BSX46-16	2030	BSY81	2030	BY127/700	1114	BZX29C5V1	565	C15-1	2009
BJ161C	2023	BSV65FB	2009	BSX47	2030	BSY82	2030	BY128	1114	BZX29C6V2	561	C15-2	2009
BLY10	2041	BSV69	2030	BSX47-6	2030	BSY83	2030	BY129	1114	BZX29C9V1	562	C15-3	2009
BLY11	2041	BSV77	2016	BSX47-10	2030	BSY84	2030	BY130	1104	BZX29C12	563	C16	2009
BLY21	2020	BSV84	2030	BSX48	2009	BSY85	2030	BY134	1104	BZX29C15	564	C16A	2009
BLY27	2009	BSV86	2009	BSX49	2009	BSY86	2030	BY135	1104	BZX46C5V1	565	C17	2009
BLY36	2020	BSV87	2009	BSX51	2009	BSY87	2030	BY141	1104	BZX46C6V2	561	C17A	2009
DLY47	2041	BSV88	2009	BSX51A	2009	BSY88	2030	BY153	1104	BZX46C9V1	562	C18	2009

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C20	2030
C21	2041
C22	2030
C23	2030
C23H12B	1104
C24	2030
C26	2009
C27	2009
C28	2009
C29	2009
C30	2030
C31	2009
C32	2009
C32A	2030
C33	2016
C37	2009
C37(TRANSISTOR)	2009
C38	2009
C38(TRANSISTOR)	2009
C39(TRANSISTOR)	2010
C39-207	2009
C39A	2010
C40	2010
C45	2009
C46	2030
C47	2030
C48	2030
C48C	2030
C49Y	2030
C51	2030
C52(TRANSISTOR)	2009
C53	2009
C54	2009
C55	2009
C56	2010
C60(DIODE)	1123
C61	2030
C62(TRANSISTOR)	2009
C63	2009
C63(JAPAN)	2010
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C66-P11111-0001	2009
C66-P11150-00001	2009
C67	2009
C68	2009
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C79	2010
C80	2016
C82S	2010
C83-829	1104
C83-830	1104
C87	2009
C88	2030
C88A	2030
C95	2030
C97	2030
C97A	2030
C98	2009
C99	2009
C99CD	2030
C100	2009
C100-OY	2009
C103	2009
C103(JAPAN)	2009
C103A(SCR)	1067
C103A(TRANSISTOR)	2009
C103B	1067
C103Q	1067
C103Y	1067
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C644HS	2016	C693GL	2016	C728	2061	C780AG-Y	2061	C838M	2059	C900SC	2016	C933FPD	2059
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C644PJ	2016	C693GU	2016	C732	2016	C781	2030	C839	2009	C900U	2016	C933FPF	2059
C644Q	2016	C693GZ	2016	C732BL	2016	C784	2058	C839(H)	2009	C903D	2058	C933FPG	2009
C644R	2016	C693H	2016	C732GR	2016	C784-0	2058	C839(J)	2009	C907	2009	C933G	2009
C644RST	2016	C694	2016	C732S	2016	C784-O	2058	C839(M)	2009	C907A	2009	C934	2030
C644S	2016	C694D	2009	C732V	2016	C784A	2058	C839A	2009	C907AC	2009	C934(TRANSISTOR)	2009
C644S/494	2016	C694E	2016	C732Y	2016	C784BN	2058	C839B	2009	C907AD	2009	C934C	2009
C644ST	2016	C694F	2016	C733	2016	C784R	2058	C839C	2009	C907AH	2009	C934D	2009
C644T	2016	C694G	2016	C733-0	2016	C784Y	2058	C839D	2009	C907C	2009	C934E	2009
C645	2010	C694Z	2016	C733-O	2016	C785	2016	C839E	2009	C907D	2009	C934F	2009
C645A	2010	C696	2030	C733BL	2016	C785(0)	2058	C839F	2009	C907H	2009	C934G	2009
C645B	2010	C696A	2030	C733GR	2016	C785BN	2058	C839H	2009	C907HA	2009	C934P	2009
C645C	2010	C696B	2030	C733R	2016	C785D	2058	C839J	2009	C912	2009	C936	2055
C645G	2010	C696D	2030	C733V	2016	C785E	2058	C839L	2009	C913	2009	C938	2059
C645N	2010	C696E	2030	C733Y	2016	C785R	2058	C839M	2009	C917K	2016	C938A	2059
C646	2041	C696F	2030	C734	2059	C786	2016	C839N	2009	C918	2016	C938B	2059
C647	2041	C696G	2030	C734-0	2059	C786R	2016	C839S	2009	C920	2058	C938C	2059
C647R	2009	C696H	2030	C734-O	2059	C787	2016	C847	2009	C920E	2010	C941	2059
C648	2016	C696I	2030	C734-R	2059	C789	2020	C848	2009	C920Q	2058	C941-0	2059
C648H	2009	C701(TRANSISTOR)	2009	C734-Y	2059	C789-0	2020	C849	2009	C920R	2058	C941-O	2059
C649	2009	C702	2009	C734GR	2059	C789-O	2020	C850	2009	C921	2010	C941-R	2059
C650	2009	C705	2010	C734O	2059	C789-R	2020	C851	2041	C921C1	2010	C941-Y	2059
C650B	2009	C705B	2010	C734Y	2059	C789-Y	2020	C858	2016	C921K	2010	C941R	2059
C655	2009	C705C	2010	C735	2059	C790-O	2020	C858E	2016	C921L	2010	C943	2009
C656	2010	C705D	2010	C735(FA-3)	2010	C793	2041	C858F	2016	C921M	2010	C943A	2009
C657	2010	C705E	2010	C735(O)	2059	C793BL	2041	C858FG	2016	C922	2010	C943B	2009
C658	2010	C705F	2010	C735-0	2059	C793R	2041	C858G	2016	C922A	2010	C943C	2009
C658A	2010	C705TV	2010	C735-O	2059	C793Y	2041	C859	2016	C922B	2010	C944	2009
C659	2010	C708	2030	C735-R	2009	C794R	2041	C859E	2016	C922C	2010	C944A	2009
C662	2010	C708A	2030	C735B	2059	C796	2009	C859F	2016	C922K	2010	C944B	2009
C663	2016	C708AA	2030	C735F	2059	C797	2030	C859FG	2016	C922L	2010	C944C	2009
C664	2041	C708AB	2030	C735FA3	2059	C800	2010	C859G	2016	C922M	2010	C944D	2009
C664B	2041	C708AC	2030	C735GR	2059	C815	2059	C859GK	2016	C923	2016	C944K	2009
C664C	2041	C708AH	2030	C735H	2059	C815(M)	2059	C860	2016	C923A	2016	C945	2009
C668	2058	C708AHA	2030	C735J	2059	C815A	2059	C860C	2016	C923B	2016	C945(R)	2009
C668-0	2010	C708AHB	2030	C735K	2059	C815B	2059	C860D	2016	C923C	2016	C945-O	2009
C668A	2010	C708AHC	2030	C735L	2059	C815C	2059	C860E	2016	C923D	2016	C945A	2009
C668B	2010	C708B	2030	C735Y	2059	C815F	2059	C863	2016	C923E	2009	C945AP	2009
C668B1	2010	C708C	2030	C738	2010	C815K	2059	C864	2016	C923F	2016	C945AQ	2009
C668BC2	2010	C709	2009	C738C	2010	C815L	2059	C870	2009	C924	2010	C945B	2009
C668C	2010	C709B	2009	C738D	2010	C815M	2059	C870BL	2009	C924E	2010	C945C	2009
C668C1	2010	C709C	2009	C739	2010	C815S	2059	C870E	2009	C924F	2010	C945D	2009
C668CD	2010	C709CD	2009	C739C	2010	C815SA	2059	C870F	2009	C924M	2010	C945E	2009
C668D0	2010	C709D	2009	C740	2010	C815SC	2059	C871	2009	C925	2009	C945F	2009
C668D	2010	C710	2009	C742	2009	C816	2030	C871BL	2009	C927	2016	C945G	2009

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C945H	2009	C1047E	2010	C1213AB	2059	C1358P	2055	C2300.037-096	2009	CA150	1104	CCS2006D	2010
C945K	2009	C1051	2041	C1213AC	2059	C1358Q	2055	C2538-11	2009	CA152VA	1114	CCS2008F015	2010
C945L	2009	C1051C	2041	C1213AD	2059	C1358R	2055	C3000P	1801	CA200	1104	CCS4004	2009
C945M	2009	C1051D	2041	C1213AK	2059	C1359	2009	C3001P	1801	CA224E	1711	CCS6168	2009
C945O	2009	C1051E	2041	C1213AKA	2059	C1359A	2009	C3004P	1802	CA224G	1711	CCS6168F	2009
C945P	2009	C1051F	2041	C1213AKB	2059	C1359B	2009	C3123	2010	CA239	1712	CCS6168G	2030
C945Q	2009	C1051LC	2041	C1213AKC	2059	C1359C	2009	C3710	2009	CA239A	1712	CCS6225F	2016
C945QL	2009	C1051LD	2041	C1213AKD	2059	C1360	2016	C3800P	1808	CA239AE	1712	CCS6226G	2016
C945QP	2009	C1051LE	2041	C1213B	2059	C1361	2059	C4011	561	CA239AG	1712	CCS6227F	2016
C945R	2016	C1051LF	2041	C1213BC	2059	C1362	2009	C4015	562	CA239E	1712	CCS6228F	2023
C945S	2009	C1060	2020	C1213C	2059	C1363	2059	C4018	563	CA239G	1712	CCS6229H	2030
C945T	2009	C1060A	2020	C1213CD	2059	C1364	2059	C4020	564	CA250	1104	CCS9015	2023
C945TQ	2009	C1060B	2020	C1213D	2059	C1364A	2059	C-4401	1102	CA324E	1711	CCS9016D	2010
C945TR	2009	C1060BM	2020	C1214	2059	C1367	2055	C5005	1123	CA324G	1711	CCS9016E	2010
C945X	2009	C1060C	2020	C1214A	2059	C1367A	2055	C5359	2010	CA339	1712	CCS9017	2016
C947	2016	C1060D	2020	C1214B	2059	C1372Y	2059	C6052P	007	CA339A	1712	CCS9017G925	2016
C948	2016	C1061	2020	C1214C	2059	C1390A	2010	C6059P	1758	CA339AE	1712	CCS9018E	2009
C959A	2030	C1061A	2020	C1214D	2059	C1390I	2009	C6063P	1759	CA339AG	1712	CCS9018F	2010
C959B	2030	C1061B	2020	C1215	2016	C1390J	2009	C6079P	1757	CA339E	1712	CCS9018H924	2016
C959C	2030	C1061C	2020	C1218	2030	C1390K	2009	C6083P	1759	CA339G	1712	CD-0000	1123
C959D	2030	C1061D	2020	C1220E	2059	C1390V	2009	C6102P	038	CA555CE	1723	CD0000	1123
C959M	2030	C1061T	2020	C1222	2016	C1390W	2009	C6644H	2016	CA555CG	1723	CD0000/7825B	1123
C959S	2030	C1061T-B	2020	C1222A	2016	C1390WH	2009	C7076	2016	CA555E	1723	CD-0000N	1123
C959SA	2030	C1061TB	2020	C1222B	2016	C1390WI	2009	C7335-BL	2016	CA555G	1723	CD0000NC	1102
C959SB	2030	C1070	2016	C1222C	2016	C1390WX	2009	C7350RN	2009	CA741	007	CD000	1123
C959SC	2030	C1071	2009	C1222D	2016	C1390WY	2009	C7840	2058	CA741C	007	CD-00-9	1102
C959SD	2030	C1072	2030	C1244	2009	C1390X	2009	C9082	2023	CA741CE	007	CD0014	1102
C960	2030	C1072A	2030	C1278	2061	C1390XJ	2009	C9083	2023	CA741CG	007	CD0014(MORSE)	1102
C960(JAPAN)	2030	C1079	2041	C1278S	2061	C1390XK	2009	C9084	2023	CA741CS	007	CD-0014N	1123
C960A	2030	C1079R	2041	C1279	2061	C1390YM	2009	C9085	2023	CA741E	007	CD0014NA	2009
C960B	2030	C1079Y	2041	C1279S	2061	C1393	2058	C9426	2058	CA741G	007	CD0014NG	2009
C960C	2030	C1080	2041	C1280	2060	C1394	2058	C9604	2009	CA1020A	1104	CD0015N	2009
C960D	2030	C1080R	2041	C1280A	2060	C1396	2010	C9634	2016	CA1365	1759	CD-0021	1102
C960S	2030	C1080Y	2041	C1280AS	2060	C1398	2020	C10110	1104	CA1458	038	CD0021	2009
C960SA	2030	C1101	2055	C1280S	2060	C1398Q	2020	C10159	1104	CA1458E	038	CD-0033	561
C960SB	2030	C1101A	2055	C1293A(LAST-IF)	2009	C1402	2041	C10176	1104	CA1458F	038	CD0033	561
C960SC	2030	C1101B	2055	C1293B	2010	C1413	2055	C10215-2	2007	CA1458G	038	CD-05	1104
C960SD	2030	C1101C	2055	C1295	2055	C1413A	2055	C10227	2007	CA1458S	038	CD05	1104
C966	2009	C1101D	2055	C1295-O	2055	C1416	2009	C10230-3	2007	CA2002	703	CD-07	1101
C967	2009	C1101E	2055	C1295A	2055	C1416BL	2009	C10258	2007	CA2002V	703	CD07	1101
C968	2009	C1101F	2055	C1308	2055	C1417	2010	C10260	2007	CA2004	703	CD-2	1104
C968P	2009	C1101L	2055	C1308K	2055	C1417C	2010	C10261	2007	CA2065	1759	CD2	1104
C972	2030	C1107Q	2020	C1309	2055	C1417D	2010	C10262	2007	CA3065	1759	CD-2N	1104
C972C	2030	C1115	2041	C1312	2016	C1417D(1)	2010	C10279-1	2016	CA3065#	1759	CD-4	1104
C972D	2030	C1123	2009	C1312F	2016	C1417D(U)	2010	C10279-3	2009	CA3065/7F	1759	CD4	1104
C972E	2030	C1126	2058	C1312G	2016	C1417DU	2010	C10291	2007	CA3065,RCA	1759	CD-20	1102
C982	2060	C1128	2016	C1312H	2016	C1417F	2010	C11021	2007	CA3065D	1759	CD31-00006	565
C983	2061	C1128(3RD-IF)	2009	C1312Y	2016	C1417G	2010	C12711	2009	CA3065E	1759	CD31-00008	561
C984	2030	C1128(S)	2058	C1312YF	2016	C1417H	2010	C12712	2030	CA3065F	1759	CD31-00012	562
C984A	2030	C1128D	2058	C1312YG	2016	C1417U	2010	C12923	2030	CA3065FC	1759	CD31-00015	563
C984B	2030	C1129	2058	C1312YH	2016	C1417V	2010	C12924	2030	CA3065F.C.	1759	CD31-00017	564
C984C	2030	C1129(R)	2058	C1313	2016	C1417VW	2010	C12925	2009	CA3065PC	1759	CD31-10365	564
C993	2009	C1151	2055	C1313F	2016	C1417W	2010	C12926	2030	CA3065RCA	1759	CD31-12019	562
C997	2016	C1151A	2055	C1313G	2016	C1418	2020	C13061	2016	CA3741CE	007	CD31-12022	563
C1000	2016	C1166	2059	C1313H	2016	C1418A	2020	C13390	2009	CA3741E	007	CD31-12024	564
C1000-BL	2016	C1166-0	2059	C1313Y	2016	C1418B	2020	C13391	2009	CA6664	1104	CD31-12039	562
C1000-GR	2016	C1166D	2059	C1313YF	2016	C1418C	2020	C13391A	2009	CA6665	1104	CD-37	1102
C1000-Y	2016	C1166GR	2059	C1313YG	2016	C1418D	2020	C13392	2030	CA7248	1104	CD37	1102
C1000Y	2016	C1166R	2059	C1313YH	2016	C1419	2020	C13393	2030	CA8314	1104	CD-37A	1102
C1002	2016	C1166Y	2059	C1317	2059	C1419A	2020	C13394	2030	CA-9011H	2009	CD37A	1102
C1003	2009	C1170A	2055	C1317B	2059	C1419B	2020	C13398	2030	CAC5028A	2010	CD37A2	1104
C1004	2055	C1171	2055	C1317P	2059	C1419C	2020	C13901	2009	CAM-12	2009	CD38	2009
C1004A	2055	C1172	2055	C1317Q	2059	C1419D	2020	C14256	2009	CB5	1104	CD101	1123
C1005	2055	C1172A	2055	C1317R	2059	C1429	2020	C21382	1104	CB10	1104	CD437	2023
C1005A	2055	C1172B	2055	C1317S	2059	C1429-1	2020	C21383	562	CB20	1104	CD441	2016
C1006	2016	C1173	2020	C1317T	2059	C1429-2	2020	C21480	1123	CB50	1104	CD445	2023
C1006A	2016	C1173-0	2020	C1318	2059	C1437	2007	C23018	1103	CB100	1114	CD446	2009
C1006B	2016	C1173-GR	2020	C1318Q	2059	C1438	2007	C36566	2041	CB-103	2007	CD461	2041
C1006C	2016	C1173-O	2020	C1318R	2059	C1472K	2060	C36578	2016	CB103	2007	CD461-014-614	2041
C1007	2009	C1173-R	2020	C1318S	2059	C1537	2016	C36579	2030	CB104	2007	CD500	2023
C1008	2030	C1173-Y	2020	C1325	2055	C1537-3	2016	C36580	2009	CB106	1123	CD562	2016
C1010	2016	C1173C	2020	C1325A	2055	C1537-O	2016	C36583	2020	CB150	1104	CD1111	1104
C1010A	2016	C1173R	2020	C1327	2016	C1537B	2016	C51909B	2023	CB156	2007	CD1112	1104
C1010B	2016	C1173X0	2020	C1327FS	2016	C1537S	2016	C139000	2030	CB157	2007	CD1113	1104
C1010C	2016	C1173X	2020	C1327U	2016	C1538	2016	C139000A	2030	CB158	2007	CD1114	1104
C1023	2010	C1173Y	2020	C1328	2016	C1538A	2016	C248507	1104	CB161	2007	CD1115	1104
C1023(JAPAN)	2010	C1175	2059	C1328T	2016	C1538S	2016	C255110-011	1102	CB163	1123	CD1116	1104
C1023-O	2010	C1175C	2059	C1328U	2016	C1538SA	2016	C256125-011	1103	CB200	1104	CD1117	1104
C1023-Y	2010	C1175D	2059	C1335	2059	C1542	2016	C523383	2009	CB244	2007	CD1121	1104
C1023G	2010	C1175E	2059	C1335A	2016	C1547	2016	C1107832P6	1101	CB246	2009	CD1122	1104
C1026	2010	C1175F	2059	C1335B	2016	C1573	2061	C1945295DY1	2009	CB248	2007	CD1123	1104
C1026G	2010	C1182B	2016	C1335C	2016	C1573P	2061	C2475078-3	2010	CB249	2007	CD1124	1104
C1026Y	2010	C1182C	2016	C1335D	2016	C1633	2009	C2485076-3	2030	CB250	1104	CD1125	1104
C1030P	2041	C1182D	2016	C1335E	2016	C1639	2009	C2485077-2	2030	CB254	2007	CD1126	1104
C1032	2010	C1184	2055	C1335F	2016	C1648	2016	C2485078-1	2010	CB-393	1123	CD1127	1104
C1032G	2010	C1184A	2055	C1342	2010	C1658Q	2061	C2485079-1	2010	CB393	1123	CD1141	1104
C1032Y	2010	C1184B	2055	C1342A	2010	C1667	2041	C6141990	1102	CC102BA	1104	CD1142	1104
C1033	2061	C1184C	2055	C1342B	2010	C1674	2010	C6862400	2009	CC102DA	1104	CD1143	1104
C1033A	2061	C1184D	2055	C1342C	2010	C1674K	2010	C532000585	2023	CC102FA	1104	CD1147	1104
C1035	2016	C1184E	2055	C1343	2041	C1674L	2010	CA-092	562	CC102HA	1104	CD1148	1104
C1035C	2016	C1187	2058	C1343A	2041	C1674M	2010	CA2D2	2007	CC102KA	1104	CD1149	1104
C1035D	2016	C1204	2059	C1343B	2041	C1675	2009	CA10	1104	CC102MA	1104	CD1151	1104
C1035E	2016	C1204B	2059	C1343C	2041	C1675K	2009	CA20	1104	CC102PA	1114	CD1224	1102
C1036	2016	C1204C	2059	C1343H	2041	C1675L	2009	CA50	1104	CC102RA	1114	CD3122	565
C1044	2016	C1204D	2016	C1343HA	2041	C1675M	2009	CA-90	1123	CC102VA	1114	CD4001	2401
C1045	2055	C1205	2059	C1343HB	2041	C1681BL	2016	CA90	1102	CC152VA	1114	CD4001AD	2401
C1045B	2055	C1205A	2059	C1344	2016	C1684	2059	CA100	1104	CC1168F	2009	CD4001AE	2401
C1045C	2055	C1205B	2059	C1344C	2016	C1685	2009	CA102BA	1104	CC59018F	2009	CD4001AF	2401
C1045D	2055	C1205C	2059	C1344D	2016	C1685P	2009	CA102DA	1104	CCJ5212	2009	CD4001BCJ	2401
C1045E	2055	C1210	2061	C1344E	2016	C1685Q	2009	CA102FA	1104	CCS1235G	2009	CD4001BCN	2401
C1045R	2055	C1210C	2061	C1344F	2016	C1685S	2016	CA102HA	1104	CCS2001H	2009	CD4001BD	2401
C1046	2055	C1210D	2061	C1345	2016	C1686	2058	CA102MA	1104	CCS2004	2009	CD4001BE	2401
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C1047C	2010	C1213A	2059	C1358	2055	C1739	2009	CA102VA	1114	CCS2005B	2023	CD4001BMW	2401
C1047D	2010	C1213AA	2059	C1358K	2055	C1908E	2010	CA139G	1712	CCS-2006D	2009	CD4001CJ	2401

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CD4001CN	2401	CD3122055	562	CDQ10008	2009	CER670A	1104	CIL511	2010	CK790	2007	CP102MA	1104
CD4001MJ	2401	CD3212055(ZENER)	562	CDQ10009	2009	CER670B	1104	CIL512	2010	CK791	2007	CP102PA	1114
CD4001MW	2401	CDC86X7-5	2009	CDQ10010	2009	CER670C	1104	CIL513	2010	CK792	2007	CP102RA	1114
CD4001UBD	2401	CDC430	2009	CDQ10011	2030	CER680	1104	CIL521	2010	CK794	2007	CP102VA	1114
CD4001UBE	2401	CDC496	2023	CDQ10012	2030	CER680A	1104	CIL522	2010	CK870	2007	CP103	1114
CD4001UBF	2401	CDC587	2030	CDQ10014	2030	CER680B	1104	CIL523	2010	CK871	2007	CP152VA	1114
CD4009AE	2449	CDC745	2030	CDQ10016	2009	CER680C	1104	CIL-531	2009	CK872	2007	CP400	2041
CD4011	2411	CDC745(ZENITH)	2009	CDQ10017	2009	CER690	1104	CIL531	2010	CK875	2007	CP401	2041
CD4011AD	2411	CDC746	2009	CDQ10018	2009	CER690A	1104	CIL-532	2009	CK878	2007	CP403	2061
CD4011AE	2411	CDC746(ZENITH)	2023	CDQ10019	2009	CER690B	1104	CIL532	2010	CK879	2007	CP404	2041
CD4011AF	2411	CDC1201BC	2009	CDQ10020	2009	CER690C	1104	CIL533	2010	CK882	2007	CP405	2041
CD4011BCJ	2411	CDC2010	2009	CDQ10021	2009	CER700	1104	CJ5201	2009	CK880	2007	CP406	2041
CD4011BCN	2411	CDC2010C	2009	CDQ10022	2009	CER700A	1104	CJ5202	2009	CK891	2007	CP407	2041
CD4011BD	2411	CDC2010D	2009	CDQ10023	2009	CER700B	1104	CJ5203	2009	CK892	2007	CP408	2041
CD4011BE	2411	CDC2510C	2009	CDQ10024	2009	CER700C	1104	CJ5204	2007	CK942	2023	CP409	2030
CD4011BF	2411	CDC2510C-G	2009	CDQ10025	2009	CER710	1104	CJ-5206	2009	CL05	1104	CP701	2020
CD4011BMJ	2411	CDC2510G	2009	CDQ10026	2009	CER710A	1104	CJ5206	2009	CL010	1104	CP702	2020
CD4011BMW	2411	CDC4023A130	2009	CDQ10027	2009	CER710B	1104	CJ-5207	2009	CL025	1104	CP703	2061
CD4011CJ	2411	CDC5000	2010	CDQ10028	2009	CER710C	1104	CJ5207	2009	CL1	1104	CP2357	2030
CD4011CN	2411	CDC5000-1B	2010	CDQ10032	2009	CER720	1114	CJ-5208	2009	CL1.5	1104	CP3212055	562
CD4011MJ	2411	CDC5008	2030	CDQ10033	2030	CER720A	1114	CJ-5210	2030	CL2	1104	CQ1	2007
CD4011MW	2411	CDC5028A	2030	CDQ10035	2009	CER720B	1114	CJ5210	2030	CL3	1104	CR0000	1123
CD4011UBD	2411	CDC5038A	2010	CDQ10036	2009	CER720C	1114	CJ-5211	2009	CL4	1104	CR02AM	1067
CD4011UBE	2411	CDC5071A	2010	CDQ10048	2030	CER730	1114	CJ5211	2009	CL5	1104	CR02AM1	1067
CD4011UBF	2411	CDC5075B	2010	CDQ10051	2030	CER730A	1114	CJ-5212	2009	CL6	1104	CR02AM4	1067
CD4013	2413	CDC8000	2009	CDQ10052	2030	CER730B	1114	CJ5212	2009	CL7	1104	CR02AN4	1067
CD4013AD	2413	CDC-8000-1	2009	CDQ10053	2030	CER730C	1114	CJ5213	2030	CL8	1104	CR E	1104
CD4013AE	2413	CDC8000-1	2030	CDQ10057	2030	CF-092	562	CJ5214	2030	CL166C	2009	CR1-051C	1067
CD4013AF	2413	CDC8000-1B	2009	CDQ10058	2030	CF1	2010	CJ5215	2030	CL166C,D	2009	CR1-051CA	1067
CD4013BCJ	2413	CDC8000-1C	2030	CDR-2	1104	CF-2	2009	CK4	2007	CL166D	2009	CR1-101C	1067
CD4013BCN	2413	CDC8000-CM	2030	CDR-4	1104	CF2	2009	CK4A	2007	CLM05	1104	CR1-101CA	1067
CD4013BD	2413	CDC-8001	2009	CDS-16B	1104	CF5	2009	CK13	2007	CLM1	1104	CR1 201C	1067
CD4013BE	2413	CDC8001	2009	CDZ-9V	562	CF14	2059	CK13A	2007	CM0770	2030	CR1 201CA	1067
CD4013BF	2413	CDC8002	2030	CDZ15000	2030	CF102DA	1104	CK14	2007	CM4001	2401	CR3AMZ	1020
CD4013BMJ	2413	CDC8002-1	2030	CDZ-C9V	562	CF102PA	1114	CK14A	2007	CM4001AD	2401	CR3AMZB	1020
CD4013BMW	2413	CDC8011B	2009	CE0360/7839	2007	CF102RA	1114	CK16	2007	CM4001AE	2401	CR101/6515	1123
CD4017AD	2417	CDC8021	2009	CE0361/7839	2007	CF102VA	1114	CK16A	2007	CM4011	2411	CR102/6515	1123
CD4017AE	2417	CDC8054	2009	CE0362/7839	2007	CF152VA	1114	CK17	2007	CM4011AD	2411	CR353	1102
CD4017AF	2417	CDC8201	2009	CE0398/7839	1104	CF-1295H	2030	CK17A	2007	CM4011AE	2411	CR501/6515	1104
CD4017BCJ	2417	CDC8457	1102	CE0390-7839	1144	CG1	2009	CK22	2007	CM4013	2413	CR801	1104
CD4017BCN	2417	CDC-9000	2007	CE0495/7839	1123	CG12-E	1123	CK22A	2007	CM4013AD	2413	CR951	1114
CD4017BD	2417	CDC9000-1	2023	CE03607839	2007	CG12E	1123	CK22B	2007	CM4013AE	2413	CR952	1114
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CD4017BMJ	2417	CDC9002-1C	2030	CE504	1104	CG66H	1123	CK25A	2007	CM4017AE	2417	CR955	1114
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CD4023AE	2423	CDC10000-1E	2023	CE508	1114	CG86H	1123	CK26A	2007	CM4023AE	2423	CR1034	1104
CD4023AF	2423	CDC12000	2009	CE510	1114	CG23018	1103	CK27	2007	CM4049	2449	CR1035	1104
CD4023BCJ	2423	CDC12000-1C	2009	CE4001B	2009	CGD462	1123	CK27A	2007	CM7163	2009	CS11C	1067
CD4023BCN	2423	CDC12018C	2009	CE4001C	2009	CGD591	1123	CK28	2007	CM8470	1104	CS-16E	1104
CD4023BD	2423	CDC12030B	2010	CE4001E	2009	CGD685	1123	CK28A	2007	CM8640E	2007	CS16E	1104
CD4023BE	2423	CDC12077F	2009	CE4003D	2030	CGD1029	1123	CK64	2007	CMC334-423	2009	CS131D(AXIAL)	1104
CD4023BF	2423	CDC12108	2009	CE4003E	2009	CGE-50	2007	CK64A	2007	CMO770	2009	CS183E	2009
CD4023BMJ	2423	CDC12112C	2010	CE4004C	2009	CGE-51	2007	CK64B	2007	CN2484	2030	CS184E	2009
CD4023BMW	2423	CDC12112D	2010	CE4005C	2023	CGE-52	2007	CK64C	2007	CO49	1104	CS184J	2010
CD4023C	2423	CDC12112E	2010	CE4008B	2058	CGE-54(PNP)	2007	CK65	2007	COD1-6045	1104	CS360	2009
CD4023CJ	2423	CDC12112F	2010	CE4008C	2050	CGE-61	2059	CK65A	2007	COD1-6046	1104	CS429J	2010
CD4023CN	2423	CDC13000	2009	CE4008D	2050	CGE-62	2016	CK65B	2007	COD1-6047	1104	CS430H	2010
CD4023MJ	2423	CDC-13000-1	2009	CE4008E	2058	CGE-64	2060	CK65C	2007	COD1-6048	1104	CS-460B	2009
CD4023MW	2423	CDC13000-1	2009	CE4010D	2010	CGE-66	2020	CK66	2007	COD1531	1104	CS-461B	2010
CD4023UBD	2423	CDC13000-1B	2009	CE4010E	2010	CGE-69	2027	CK66A	2007	COD1532	1104	CS461F	2010
CD4023UBE	2423	CDC13000-1C	2009	CE4012D	2023	CGE-79	2055	CK66B	2007	COD1533	1104	CS469F	2010
CD4023UBF	2423	CDC-13000-1D	2009	CE4013E	2009	CGE-500	1102	CK66C	2007	COD1534	1104	CS696	2009
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CD4066	2466	CDC13000C	2009	CER68	1104	CHAZ6.2	561	CK67B	2007	COD1537	1114	CS718	2009
CD4066B	2466	CDC13016A	2009	CER67	1104	CHAZ6.2A	561	CK67C	2007	COD1538	1114	CS718A	2009
CD4066BE	2466	CDC13019B	2009	CER67A	1104	CHAZ62.A	561	CK83	2007	COD1551	1104	CS720A	2009
CD4116	563	CDC13500-1	2009	CER67B	1104	CHMZ5.1	565	CK131	1124	COD1552	1104	CS-901ZHF	2023
CD4117	563	CDC15018	2009	CER67C	1104	CI2711	2009	CK398	2061	COD1553	1104	CS901ZHF	2023
CD4118	563	CDC25100-6	2009	CER68	1104	CI2712	2009	CK419	2009	COD1554	1104	CS910	2010
CD4121	563	CDC25100-G	2016	CER68A	1104	CI2713	2009	CK420	2009	COD1555	1104	CS925M	2009
CD4122	563	CDC60132	2009	CER68B	1104	CI2714	2009	CK421	2009	COD1556	1104	CS929	2016
CD5902	1103	CDC120700	2030	CER68C	1104	CI2923	2009	CK422	2009	COD1575	1104	CS930	2016
CD5903	1102	CDC4306813	2009	CER-69	1104	CI2924	2009	CK474	2009	COD1611	1104	CS956	2030
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CD6016	1103	CDG00	1102	CER69A	1104	CI2926	2009	CK476	2009	COD1613	1104	CS1014D	2010
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CD6150	2009	CDG-20	1102	CER70	1104	CI3391A	2009	CK662	2007	COD1616	1104	CS1014G	2016
CD6153	2030	CDG-20/494	1102	CER70A	1104	CI3392	2009	CK705	1123	COD1617	1114	CS1014H	2016
CD6153-2	2030	CDG-21	1102	CER70B	1104	CI3393	2009	CK-706	1123	COD1618	1114	CS1018	2010
CD6157	2009	CDG-22	1102	CER70C	1104	CI3394	2009	CK706	1123	COD11556	1104	CS1068	2009
CD6161P1N013-75	1103	CDG22	1102	CER-71	1104	CI3395	2009	CK706-P	1123	COD15524	1104	CS1120C	2016
CD6375	2009	CDG-24	1102	CER71	1104	CI3396	2009	CK706A	1123	COD15534	1104	CS-1120C1	2009
CD8000	2009	CDG24	1102	CER71A	1104	CI3397	2009	CK706P	1123	COD15544	1104	CS-1120C2	2009
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CD8457	1102	CDJ-00	1102	CER-71CA	1104	CI3403	2009	CK721	2007	CODI537	1114	CS1120E	2016
CD8547	1102	CDK-4	1104	CER72	1114	CI3404	2009	CK722	2007	CODI538	1114	CS1120F	2016
CD9525	2009	CDQ1011	2061	CER72A	1114	CI3405	2009	CK725	2007	CODI617	1114	CS-1120H	2009
CD10000-1E	2023	CDQ1012	2061	CER72B	1114	CI3414	2009	CK727	2007	CODI1531	1104	CS1120H	2016
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CD13332	1104	CDQ1018	2009	CER72D	1114	CI3416	2009	CK751	2007	CODI6047	1104	CS1120I	2009
CD13333	1104	CDQ1021	2009	CER72F	1114	CI3417	2009	CK754	2007	CODI11556	1104	CS1121G	2023
CD13334	1104	CDQ1024	2009	CER73	1114	CI3704	2030	CK759	2007	CODI15524	1104	CS1129E	2030
CD13335	1104	CDQ1037	2061	CER73A	1114	CI3705	2030	CK759A	2007	CODI15534	1104	CS1166	2009
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CD13338	1104	CDQ10001	2009	CER73D	1114	CI3900A	2009	CK761	2007	CODI115524	1104	CS1166E	2009
CD13339	1104	CDQ10002	2009	CER73F	1114	CI3901	2009	CK762	2007	CP102	1114	CS1166F	2009
CD-84857	1102	CDQ10003	2009	CER500	1104	CI4256	2009	CK766	2007	CP102BA	1104	CS1166G	2009
CD86003	1102	CDQ10004	2009	CER500A	1104	CI4424	2009	CK766A	2007	CP102DA	1104	CS1166H	2009
CD-860037	1104	CDQ10005	2009	CER500B	1104	CI4425	2009	CK768	2007	CP102FA	1104	CS1166H-F	2009
CD860037	1102	CDQ10006	2009	CER500C	1104	CI1731	[illegible]	CK776	2007	CP102HA	1104	CS1168E	2010
CD3112039	562	CDQ10007	2009	CER670	1104	CII-225 Q	2041	CK776A	2007	CP102KA	1104	CS1168F	2009

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
CS1168G	2009	CS1348	2009	CS2716	2016	CS9011(E)(F)	2009	CS9020E	2023	CTP-2001-1009	2007	CXL5404	1067
CS1168H	2009	CS1349	2009	CS2922	2009	CS9011(EF)	2009	CS9020F	2023	CTP-2001-1010	1123	CXL5452	1067
CS1170F	2023	CS1350	2010	CS2923	2009	CS9011(GH)	2009	CS9021G-I	2010	CTP-2001-1011	1104	CXL5453	1067
CS1221F	2023	CS1351	2010	CS2924	2009	CS9011/3490	2009	CS9021HF(LAST-IF)	2059	CTP-2001-1012	1104	CXL5454	1067
CS1225D	2010	CS1352	2030	CS2925	2009	CS9011D	2009	CS9021HG(LAST-IF)	2059	CTP-2006-1001	2007	CXL5455	1067
CS1225E	2010	CS1353	2009	CS2941	2023	CS9011E	2009	CS9022LE	2030	CTP-2006-1002	2007	CXL5456	1020
CS1225F	2010	CS1354	2023	CS-3001B	2010	CS-9011F	2009	CS9101B	2009	CTP-2006-1003	2007	CXL5457	1020
CS1225H	2030	CS-1359	2009	CS3001B	2009	CS9011F	2009	CS9102	2023	CTP-2006-1004	1123	CXL5511	1067
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CS1226	2010	CS1360	2010	CS3390	2009	CS9011G	2009	CS9103C	2030	CTP2076-1002	2007	CXL5640	1001
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CS1227E	2010	CS1363	2009	CS3397	2009	CS9012E	2023	CS9126	2009	CTP2076-1010	2007	CXL5801	1114
CS1227F	2010	CS1368	2009	CS3398	2009	CS9012E-F	2023	CS9128-B2	2023	CTP2076-1011	2007	CXL5802	1114
CS1227G	2010	CS1368A	2009	CS3402	2009	CS9012F	2023	CS9128C1	2023	CTP2076-1012	2007	CXL5803	1114
CS1228	2023	CS1368B	2009	CS3403	2009	CS9012FC	2023	CS9129	2023	CU-12E	1067	CXL5804	1114
CS1228E	2023	CS1368C	2009	CS3404	2009	CS9012FG	2023	CS9129B	2023	CV12E	1020	CXL5805	1114
CS1229	2009	CS1368D	2009	CS3405	2009	CS9012H	2023	CS9129B1	2023	CV425	1123	CXL5806	1114
CS1229A	2009	CS1370	2009	CS3414	2009	CS9012HE	2023	CS9129B2	2023	CV442	1123	CXL5808	1114
CS1229B	2009	CS1371	2009	CS3415	2009	CS-9012HF	2023	CS9600-4	2009	CX-0031	1123	CXL5809	1114
CS1229C	2009	CS-1372	2030	CS3416	2009	CS9012HF	2023	CS9600-5	2009	CX-0033	1123	CXL6409	2029
CS1229D	2009	CS1372	2009	CS3417	2009	CS9012HF(LAST-IF)	2059	CS-12941	2009	CX-0035	1104	CY40	1104
CS1229E	2009	CS1383	2009	CS3605	2009	CS9012HG	2023	CS13401	2009	CX-0036	1123	CY50	1104
CS1229F	2009	CS-1386E	2009	CS3606	2009	CS9012HG/3490	2023	CS-90111	2009	CX0036	1123	CY80	1114
CS1229G	2009	CS-1386H	2009	CS3607	2009	CS9012HH	2023	CS90111	2009	CX-0037	1104	CY100	1114
CS1229H	2009	CS1386H	2010	CS3662	2016	CS9012HH/3490	2023	CS90144	1124	CX0037	1104	CZ-092	562
CS1229K	2030	CS1420	2009	CS3663	2016	CS9012I	2023	CT11-1A	1001	CX-0039	1104	CZ092	562
CS1229N	2030	CS1453E	2009	CS3702	2023	CS-9013	2009	CT11-2A	1001	CX0039	1104	CZ094	562
CS1235C	2009	CS1453F	2030	CS3703	2023	CS9013	2009	CT11-4A	1000	CX-0040	1104	CZ-92	562
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CS1235G	2009	CS1460H	2016	CS3706	2030	CS9013B	2009	CT12-4A	1000	CX-0042	1123	CZD015	564
CS1236D	2009	CS1461J	2016	CS3707	2016	CS9013C	2009	CT30-1A	1001	CX-0045	1123	CZD015-5	564
CS1236H	2009	CS1461X	2016	CS3708	2016	CS9013D	2009	CT30-2A	1001	CX0045	1123	D004	1104
CS1238	2010	CS1462F	2016	CS3709	2016	CS9013E	2009	CT30-4A	1000	CX-0047	1123	D006	2010
CS-1238F	2009	CS1462I	2030	CS3710	2016	CS9013E-F	2030	CT31-1A	1001	CX0047	1104	D008	2007
CS1238F	2009	CS1463A	2009	CS3711	2016	CS9013F	2009	CT31-2A	1001	CX-0048	1104	D009	2058
CS1238G	2010	CS1464H	2030	CS3843	2009	CS9013G	2009	CT31-4A	1000	CX0048	1104	D-00169C	1123
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CS1238I	2010	CS1509E	2010	CS3845	2009	CS-9013HE	2009	CT32-2A	1001	CX0050	565	D-00204R	1123
CS-1238P	2009	CS1509F	2010	CS3854	2009	CS9013HE	2009	CT32-4A	1000	CX-0052	563	D-00269C	1123
CS1238P	2009	CS1518E	2010	CS3854A	2009	CS9013HF	2009	CT33-1A	1001	CX0052	563	D-00284R	1123
CS1243E	2010	CS1555	2010	CS3855	2009	CS-9013HG	2030	CT33-2A	1001	CX-0054	1104	D-00384R	1104
CS1243H	2010	CS1585	2009	CS3855A	2009	CS9013HG	2009	CT33-4A	1000	CX0054	1144	D-00469C	561
CS1244H	2010	CS1585E/F	2009	CS3859	2009	CS9013HG/3490	2009	CT100	1104	CX-0055	1102	D-00484R	563
CS1244J	2010	CS1585G	2009	CS3859A	2009	CS9013HH	2009	CT200	1104	CX-093	1759	D-00569C	562
CS-1244X	2009	CS1585H	2010	CS3860	2009	CS-9014	2016	CT300	1104	CX093D	1759	D-00669C	1123
CS1244X	2010	CS1589E	2016	CS3900	2009	CS9014	2009	CT461	1123	CX-9001	1104	D01-100	1104
CS1245F	2009	CS1589F	2016	CS3900A	2009	CS9014(C)	2009	CT600	1104	CX9001	1104	D-05	1104
CS1245G	2009	CS1589S	2016	CS3901	2009	CS9014/3490	2009	CT1009	2007	CXL100	2007	D05	1104
CS1245H	2009	CS1591LE	2030	CS3903	2009	CS9014A	2009	CT1012	2010	CXL102	2007	D018	2007
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CS1245T	2009	CS1596E	2016	CS3906	2023	CS9014B	2009	CT1018	2016	CXL107	2010	D020	2007
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ES15X10	2010
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ES15X12	2020
ES15X14	2009
ES15X16	2009
ES15X18	2010
ES15X19	2010
ES15X20	2009
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ES15X23	2009
ES15X24	2009
ES15X30	2010
ES15X31	2007
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ES15X67	2010
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ES15X79	2016
ES15X80	2010
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ES15X84	2009
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ES15X87	2016
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ES15X97	2010
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ES15X102	2010
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ES15X105	2016
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ES16X7	1123
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ES16X12	1123
ES16X13	1104
ES16X14	1123
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ES16X24	1102
ES16X25	1104
ES16X27	1102
ES16X30	1102
ES16X32	1102
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ES16X38	1104
ES16X40	1102
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ES17(ELCOM)	2007
ES19	2007
ES19(ELCOM)	2007
ES20(ELCOM)	2009
ES22(ELCOM)	2030
ES23	2007
ES23(ELCOM)	2007
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ES25(ELCOM)	2007
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ES26(ELCOM)	2007
ES30(ELCOM)(PNP)	2007
ES31(ELCOM)	2041
ES34(ELCOM)	2023
ES36X103	1123
ES40(ELCOM)	2061
ES41	2007
ES41(ELCOM)	2007
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ES46(ELCOM)	2009
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ES51	1104
ES51X65	2030
ES53(ELCOM)	2009
ES54(ELCOM)	2016
ES56(ELCOM)	2030
ES57(ELCOM)	2030
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ES57X4	1104
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ES64(ELCOM)	2043
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ES90(ELCOM)	2043
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ES3120	2007
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ES15046	2010
ES15047	2010
ES15048	2009
ES15049	2016
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ES15052	2016
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ET15X14	2009
ET15X15	2009
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ET15X18	2010
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ET15X20	2009
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ET15X31	2007	EVR9A	562	F116	2041	F50116	2016	FCS9018H	2010	FM910	2010	FSP-165	2010
ET15X32	2007	EVR9B	562	F117	2055	F69916	2030	FCS9066	2010	FM911	2010	FSP-166	2010
ET15X36	2030	EVR12	563	F117A	2055	F73216	2007	FD01880	1103	FM914	2010	FSP-166-1	2010
ET15X37	2009	EVR12A	563	F118	2055	F7S116	2009	FD06193	1103	FM1613	2010	FSP-215	2010
ET15X41	2009	EVR12B	563	F118A	2055	FA-1	1123	FD3	1104	FM1711	2010	FSP-242-1	2010
ET15X42	2009	EVR15	564	F119	2055	FA-1(DIODE)	1123	FD6	1104	FM2242	2009	FSP-270-1	2010
ET15X45	2009	EVR15A	564	F119A	2055	FA-1(SEARS)	2009	FD100	1103	FM2368	2010	FSP-288-1	1104
ET15X54	2009	EVR15B	564	F120	2055	FA-4	1114	FD111	1103	FM2369	2010	FSP-289-1	2010
ET16X1	1123	EW162	2010	F120A	2055	FA4	1104	FD200	1102	FM2846	2010	FST2	1104
ET16X6	1124	EW163	2010	F121-546	2009	FA6	1104	FD222	1102	FM3014	2010	FST3	1104
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ET16X15	563	EW165V	2009	F209	2023	FA2310E	1102	FD600	1103	FN-51-1A	2009	FT003	2030
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ET41X37	1123	EW169B	1104	F215-1004	2010	FA2330E	1102	FD-1029-BG	2007	FOS101	2016	FT006	2009
ET51X3	2009	EW181	2009	F215-1005	2010	FA2330U	1102	FD-1029-DF	1104	FOS104	2009	FT008	2009
ET51X25	1104	EW182	2009	F215-1006	2007	FA8009	564	FD-1029-DG	1104	FPR40-1001	2009	FT008A	2009
ET52X25	1104	EW183	2027	F215-1007	2007	FA8010	564	FD-1029-EE	2007	FPR40-1003	2010	FT0019H	2030
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ET55X29	1104	EWS-78	2016	F215-1010	1123	FB-200	1173	FD-1029-GM	2030	FPR40-1006	1123	FT024	2009
ET57X25	1104	EX15X25	2007	F215-1012	1123	FB200	1173	FD-1029-GP	1103	FPR50-1001	2009	FT025	2009
ET57X26	1101	EX15X336	2010	F215-1013	1123	FB401	2007	FD-1029-JA	2009	FPR50-1002	2009	FT026	2009
ET57X29	1104	EX16X10	1102	F215-1014	1123	FB402	2007	FD-1029-JN	2030	FPR50-1003	2010	FT027	2030
ET57X30	1104	EX16X27	1102	F215-1016	1104	FB403	2007	FD-1029-LL	2009	FPR50-1004	2010	FT052	2023
ET57X33	1104	EX48	1759	F215-1017	1104	FB420	2007	FD-1029-LW	2043	FPR50-1005	2007	FT053	2009
ET57X33	1101	EX76-X	1104	F222	2009	FB421	2007	FD-1029-MB	2023	FPR50-1006	2007	FT-1	1104
ET57X35	1104	EX89/211-X	1123	F266A	1020	FB440	2007	FD-1029-MC	1102	FPR50-1011	1104	FT1	1102
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ET600	1104	EX695-X	2009	F-302-1532	2009	FBN-36220	2041	FD-1029-PP	2009	FR-1H	1104	FT-10	1104
ET1511	2007	EX744-X	2030	F302-1532	2009	FBN-36485	2041	FD-1029-PT	2009	FR-1H(M)	1104	FT10	1114
ET35035	2023	EX746-X	2023	F-302-2532	2009	FBN-36603	2041	FD1029EE	2007	FR-1HM	1104	FT14A	1104
ET234843	2009	EX748-X	2009	F302-2532	2009	FBN-CP2293	2007	FD-1073-BF	1801	FR-1M	1104	FT19H	2023
ET234854	2059	EX888-X	2009	F306-001	2009	FBN-CP34634	2030	FD-1073-BJ	1802	FR1M	1104	FT19M	2023
ET238894	2009	EX-141216	2030	F306-022	2009	FBN-L109	2030	FD-1073-BM	1822	FR1MB	1104	FT40	2009
ET329218	2059	EXV420DIR5JB	1123	F318-1	2030	FBN-L113	2030	FD1559	1144	FR-1MD	1104	FT45	2016
ET350335	2023	EYV-320D1R2J	1102	F361	2030	FBN-L115	2030	FD1599	1104	FR1MD	1104	FT107A	2060
ET352146	2059	EYV-420D1R5JA	1104	F366	2009	FBN-L148	2030	FD1708	1102	FR-1N	1104	FT107B	2016
ET368021	2009	EYV420D1R5JB	1123	F501	2016	FBTX070	2030	FD1843	1102	FR-1P	1104	FT118	2016
ET379262	2016	EYV420DIR5JB	1123	F501(ZENITH)	2016	FC5006	2010	FD1980	1123	FR1P	1104	FT402	2055
ET379462	2016	EYZP-384	1102	F501-16	2016	FCD0003PC	1102	FD3389	1104	FR-1U	1104	FT709	2010
ET380834	2016	EYZP-546	2023	F502	2016	FCD0014NCS	1102	FD3405	1101	FR1U	1104	FT1315	2010
ET398711	2016	EYZP-623	2023	F502(ZENITH)	2016	FCS916F	2058	FD6451	1102	FR-2	1104	FT1324B	2010
ET398777	2016	EYZP623	2023	F523	2016	FCS1168E	2010	FD6489	1102	FR2	1104	FT1324C	2010
ET412626	2009	EYZP-632	2009	F531	2009	FCS1168E641	2010	FDH-9	1102	FR2(S1B1)	1104	FT1341	2023
ET517263	2016	EYZP632	2009	F549-1	2023	FCS1168F813	2009	FDH400	1104	FR2-02	1104	FT1746	2023
ET517994	2016	EYZP-791	2009	F572-1	2009	FCS1168G	2009	FDH444	1103	FR2-02(DIO)	1104	FT3055	2020
ETD-1N60	1123	EYZP791	2009	F587	2009	FCS1168G704	2009	FDH666	1102	FR2-02C	1104	FT3567	2009
ETD1S2788	1102	EYZP-808	2023	F625-1	2030	FCS1170F	2023	FDH694	1102	FR2-06	1114	FT3568	2009
ETD-10D1	1104	EYZP808	2023	F699	2023	FCS1225E	2010	FDH900	1102	FR2-020	1104	FT3569	2009
ETD-10D2	1104	EZ9(ELCOM)	562	F2427	2010	FCS1227E	2010	FDH999	1103	FR2-0Z	1104	FT3638	2023
ETD-5046	1123	EZ12(ELCOM)	563	F2443	2009	FCS1227E814	2010	FDH6229	1102	FR2-OZ	1104	FT3643	2009
ETDCDG21	1102	EZ15(ELCOM)	564	F2448	2009	FCS1227F	2010	FDM1006	1102	FR-2M	1104	FT4354	2023
ETD-RD9.1FB	562	EZ150	564	F2450	2010	FCS1227F743	2010	FDM1007	1102	FR2M	1104	FT4355	2023
ETD-SD46	1123	F-05	1104	F2480	2007	FCS1227G	2010	FDN600	1102	FR-2P	1104	FT5040	2023
ETD-SG91S0	1102	F05	1104	F2584	2009	FCS1227G810	2010	FDN666	1102	FR2P	1104	FT5041	2023
ETD-V06C	1104	F1	1104	F2633	2010	FCS1229	2030	FG-2NA	1104	FR2PC	1144	FU1M	1104
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ETS-005	2041	F4	1104	F3519	2009	FCS8050C	2059	FH100	1124	FR-202	1104	FU1NA	1104
ETS-068	2009	F5	1104	F3530	2010	FCS8550	2023	FH1100	1124	FR202	1104	FU1U	1104
ETS-070	2030	F6	1104	F3532	2009	FCS8550C	2023	FI-1023	2010	FR206	1114	FU6A7723393	1740
ETTB-2SB176	2007	F8	1114	F3535	2016	FCS9011E	2009	FI-1007	2023	FRH-101	1104	FU9A7723393	1740
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ETTB-2SB176B	2007	F14	1104	F3560	2030	FCS9011G	2009	FI-1021	2023	FRS3693	2009	FU-IM	1104
ETTB-2SB176R	2007	F14-C	1104	F3561	2030	FCS9011H	2009	FI1023	2010	FR-U	1104	FUIU	1104
ETTB-75LB	2007	F14A	1104	F3565	2030	FCS9012	2023	FIP100D	1144	FS19	1123	FV-22	561
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ETTC-945	2016	F14BP	1104	F3571	2009	FCS-9012G	2023	FJH231	1801	FS1168F813	2009	FV23	1123
ETTC-CD8000	2009	F-14C	1104	F3574	2016	FCS9012G	2023	FJH241	1802	FS1221	2009	FV914	2010
ETTC-CD12000	2009	F14C	1114	F3589	2030	FCS9012H	2023	FJH311	1801	FS1308	2010	FV918	2010
ETTC-CD13000	2009	F14CP	1104	F3590	2023	FCS9012HE	2023	FJJ141	1808	FS1331	2030	FV2369A	2010
ETT-CDC-12000	2009	F14D	1114	F3597	2023	FCS9012HG	2023	FJT1101	1101	FS1682	2016	FV2484	2010
ETTD-235	2020	F14E	1114	F4001	2401	FCS9013	2009	FJT1118	1101	FS1974	2009	FV2747C	2007
ETX18	2009	F14F	1114	F4011	2411	FCS-9013F	2009	FJT1134	1101	FS1990	2023	FV3014	2010
EU1	1104	F14H	1114	F4011PC	2411	FCS9013F	2009	FK914	2010	FS2003-1	2041	FV3299	2010
EU-2	1104	F14J	1114	F4013	2413	FCS9013FG	2009	FK918	2010	FS2043	2009	FV3300	2010
EU15X1	2010	F16H1	561	F4017	2417	FCS-9013G	2009	FK2369A	2010	FS2299	2007	FV3502	2061
EU15X2	2010	F20-1001	2010	F4023	2423	FCS9013G	2009	FK2484	2010	FS3266	2010	FV3503	2061
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EU57X40	1104	F24T-011-015	2058	F15810	2010	FCS9016G	2010	FM1J2	1104	FSE4002	2016	FX914	2058
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EVR5	561	F104	2055	F15840-1	2009	FCS9018D	2010	FM709	2010	FSP1	2010	FX2369A	2058
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FX3300	2009	G05-706-E	2016	G822	1123	GC1159	2007	GE-237	2055	GES5450	2009	GET5117	2007
FX3502	2061	G01036	562	G823	1123	GC1182	2007	GE-238	2055	GES5451	2009	GET5305	2060
FX3964	2023	G01036A	561	G824	1123	GC1183	2007	GE-241	2020	GES5811	2023	GET5306	2060
FX4046	2009	G01036G	562	G825	1123	GC1184	2007	GE-243	2030	GES5813	2023	GET5307	2060
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FZ5.1T10	565	G01209B	1102	G845	1123	GC1187	2007	GE-259	2055	GES5815	2023	GET5308A	2060
FZ6.2T10	561	G01211	1104	G846	1123	GC1257	2007	GE-262	2041	GES5816	2009	GEVR-102	1770
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GM37	1114	GPM1NC	1123	GT222	2007	H600	1104	HA600	1104	HB171	2007	HC-30	1104
GM290	2007	GPM2NA	1123	GT-269	2007	H614	1123	HA800	1114	HB-172	2007	HC30	1114
GM290A	2007	GRAS 32982	2041	GT269	2007	H616	1104	HA1000	1114	HB172	2007	HC-39	1104
GM305	2016	GS73E-3	1123	GT751	2007	H617	1104	HA1040	2007	HB-173	2007	HC39	1114
GM378	2007	GS2012G	2020	GT758	2007	H618	1104	HA1124	1759	HB-175	2007	HC50	1114
GM378A	2007	GS2012H	2020	GT-759	2007	H619	1104	HA1124D	1759	HB175	2007	HC-56	2009
GM378RED	2007	GS2052G	2027	GT759	2007	H620	1104	HA1124DS	1759	HB176	2007	HC67	1104
GM380	2007	GS2052H	2027	GT-759R	2007	H621	1114	HA1124S	1759	HB178	2007	HC-68	1104
GM456A	2007	GS2053-G	2027	GT759R	2007	H623	1102	HA1124Z	1759	HB-186	2007	HC68	1104
GM760	2023	GS9011F	2009	GT-760	2007	H624	1123	HA1125	1759	HB186	2007	HC69	1104
GM-770	2010	GS9011I	2009	GT760	2007	H625	1104	HA11254	1759	HB-187	2007	HC71	1104
GM770	2010	GS9012H	2023	GT-760R	2007	H626	1104	HA1125A	1759	HB187	2007	HC72	1114
GM875	2007	GS9012I	2023	GT760R	2007	H781	1104	HA1120	1759	HB263	2007	HC73	1114
GM876	2007	GS9012J	2023	GT-761	2007	H783	1104	HA1141	1759	HB270	2007	HC80	1104
GM877	2007	GS9014	2009	GT761	2007	H800	1114	HA1154	1759	HB-415	2007	HC206	2010
GM878	2007	GS9014H	2009	GT-761R	2007	H-801	1114	HA1350	2007	HB422	2007	HC371	2009
GM878A	2007	GS9014I	2009	GT761R	2007	H881	1104	HA1360	2007	HB-459	2007	HC372	2009
GM878B	2007	GS9014J	2009	GT-762	2007	H889	1102	HA2190	2007	HB459	2007	HC-373	2009
GME040-1	2023	GS9014K	2009	GT762	2007	H890	1101	HA2356	2007	HB-461	2007	HC373	2009
GME1001	2009	GS9015H	2023	GT-762R	2007	H891	1104	HA3210	2007	HBC4001AD	2401	HC380	2010
GME1002	2009	GS9015I	2023	GT762R	2007	H931	2009	HA3480	2007	HBC4001AF	2401	HC381	2010
GME2001	2009	GS9015J	2023	GT-763	2007	H933	2009	HA3670	2007	HBC4001AK	2401	HC394	2010
GME2002	2009	GS9018-G	2009	GT763	2007	H934	2009	HA4400	2007	HBC4011AD	2411	HC454	2010
GME3001	2010	GS9018F	2009	GT-764	2007	H1080	1114	HA7206	2061	HBC4011AF	2411	HC458	2009
GME3002	2016	GS9019H	2061	GT764	2007	H1017A	1144	HA7207	2061	HBC4011AK	2411	HC460	2010
GME4001	2009	GS9019I	2061	GT766	2007	H-1567	2009	HA7501	2023	HBC4013AD	2413	HC461	2010
GME4002	2009	GS9022F	2023	GT766A	2007	H1567	2005	HA7502	2023	HBC4013AF	2413	HC495	2020
GME4003	2009	GS9022G	2023	GT832	2007	H7126 3	1104	HA7506	2023	HBC4013AK	2413	HC500	1104
GME6001	2010	GS9023H	2009	GT1223	2007	H8287	1123	HA7507	2023	HBC4017AD	2417	HC-535	2009
GME6002	2010	GS9023I	2009	GT1604	2007	H8287-4	1123	HA7510	2023	HBC4017AF	2417	HC535	2010
GME6003	2009	GS9023J	2009	GT1605	2007	H8513	1102	HA7533	2023	HBC4017AK	2417	HC535A	2010
GME9001	2010	GS9023K	2009	GT1606	2007	H8513A	1123	HA7534	2023	HBC4023AD	2423	HC535B	2010
GME9002	2010	GS9033H	2061	GT1607	2007	H8513D	1123	HA7536	2023	HBC4023AF	2423	HC-537	2016
GME9021	2010	GS9033I	2061	GT1644	2023	H9423	2009	HA7537	2023	HBC4023AK	2423	HC537	2010
GME9022	2016	GS9033J	2061	GT1665	2007	H9618	2009	HA7538	2023	HBF4001	2401	HC539	2009
GMO290	2007	GSC2012G	2027	GT2693	2007	H9623	2009	HA7543	2023	HBF4001A	2401	HC545	2010
GMO375	2007	GSC2052H	2027	GT2694	2007	H9625	2010	HA7597	2023	HBF4001AE	2401	HC-561	2009
GMO376	2007	GSH9025	2009	GT2695	2007	H9696	2009	HA7598	2023	HBF4001AF	2401	HC561	2009
GMO377	2007	GSM51	1104	GT2696	2007	H10174	1104	HA7599	2023	HBF4009A	2449	HC645	2010

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HC-668	2016	HD2000610	1104	HEP156	1104	HEPR0051	1104	HF-0SW05	1104	HJ34	2007	HR14	2009
HC668	2010	HD2000703	1104	HEP157	1104	HEPR0052	1104	HF0W0S	1104	HJ34A	2007	HR-14A	2009
HC670	1104	HD2000803	1104	HEP158	1104	HEPR0053	1104	HF-1S334	562	HJ37	2007	HR14A	2009
HC680	1104	HD2000903	1104	HEP159	1114	HEPR0054	1104	HF-1S339	562	HJ41	2007	HR-15	2016
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HC710	1104	HD2001310	1104	HEP161	1141	HEPR0056	1114	HF3	2009	HJ50	2007	HR-15A	2009
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HC-772	2009	HD3000401	562	HEP170	1114	HEPR0072	1144	HF4	2009	HJ55	2007	HR16	2009
HC772	2010	HD3001109	564	HEP175	1171	HEPR0080	1114	HF5	2009	HJ56	2007	HR-16A	2009
HC784	2010	HD3002409	563	HEP177	1173	HEPR0081	1114	HF6	2009	HJ57	2007	HR16A	2009
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HC-50102	1067	HD4000109	1123	HEP247	2041	HEPR0084	1114	HF6M	2007	HJ60A	2007	HR17	2009
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HCC4023BF	2423	HE-00829	2010	HEP634	2007	HEPR0841	1171	HF47	2023	HL56421	1802	HR-21	2007
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HCF4023BE	2423	HE-56-56	1103	HEP709	2016	HEPR1005	1067	HF-20014	1102	HN-00002	1102	HR-24	2007
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HCL-6066	2009	HE-56-93	1103	HEP716	2023	HEPR1217	1067	HF-20034	1102	HN-00008	1104	HR24A	2007
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HD-1	1104	HE-57-64	1114	HEP719	2016	HEPR9002	1101	HF-20047	1104	HN-00024	562	HR-25A	2007
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HD20-003-01	1104	HE-417-811	2061	HEP721	2010	HEPR9134	1123	HF-20050	1104	HN-00032	1104	HR-26	2007
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HD2000	1104	HE-417-822	2023	HEP723	2010	HEPR9135	1123	HF-20060	1102	HO89	563	HR-26A	2007
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HD2149	1123	HE-417-865	2023	HEP725	2009	HEPR9137	1103	HF-20061	1102	HO99	1101	HR-27	2007
HD2155	1123	HE-417-874	2023	HEP726	2016	HEPS0001	2061	HF-20063	1103	HP-5A	1104	HR27	2007
HD2503	1801	HE-417-875	2009	HEP727	2010	HEPS0002	2009	HF-20064	1102	HP205	1104	HR-27A	2007
HD2503P	1801	HE-417-923	2055	HEP728	2009	HEPS0004	2009	HF-20065	562	HP5082-2800	1103	HR27A	2007
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HD2509P	1801	HE-442-654	1720	HEP730	2016	HEPS0006	2023	HF-20067	1104	HR-1	2007	HR29	2030
HD2519	1808	HE-442-674	1771	HEP731	2010	HEPS0007	2061	HF-20071	1114	HR1	2007	HR-30	2007
HD2519P	1808	HE-443-607	2413	HEP732	2010	HEPS0008	2058	HF-20083	1104	HR-2	2007	HR-32	2009
HD2522	1802	HE-1024	1123	HEP733	2010	HEPS0010	2058	HF-20084	1104	HR2	2007	HR32	2009
HD2522P	1802	HE-10001	1123	HEP734	2010	HEPS0011	2009	HF-20095	1102	HR-2A	2007	HR-36	2009
HD2532	1805	HE-10002	1123	HEP735	2009	HEPS0015	2009	HF-20105	1104	HR2A	2007	HR36	2009
HD2532P	1805	HE-10003	1123	HEP736	2030	HEPS0016	2010	HF-20124	1102	HR-2A(PENNCREST)	1104	HR-37	2009
HD2550	1822	HE-10024	1123	HEP737	2016	HEPS0017	2058	HF309301E	2016	HR-3	2007	HR37	2009
HD2550P	1822	HE-10025	1123	HEP738	2009	HEPS0020	2010	HF-DS410	1102	HR3	2007	HR-38	2009
HD4001	2401	HE-10027	1123	HEP739	2023	HEPS0021	2010	HF-MV2	1102	HR-4	2007	HR-39	2007
HD4011	2411	HE-10030	1102	HEPC74LS367P	1835	HEPS0022	2009	HFOW05	1104	HR4	2007	HR39	2010
HD4013	2413	HE-10040	1123	HEPC3000L	1801	HEPS0023	2016	HF-SD1	1104	HR-4A	2007	HR-40	2007
HD4017	2417	HE-15188	1123	HEPC3000P	1801	HEPS0024	2016	HF-SD-1A	1104	HR4A	2007	HR40	2007
HD4023	2423	HE-15426	1123	HEPC3001L	1801	HEPS0025	2009	HFSD1A	1104	HR5	2007	HR41	2007
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HD6125	1102	HE-CD[illegible]00	1123	HEPC3004P	1802	HEPS0030	2009	HFSD12	1114	HR5A8E	1104	HR43	2007
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HD-1000101	1123	HEF4023BD	2423	HEPC6131P	1723	HEPS5026	2030	HG5808	1123	HR8A	2007	HR-58	2010
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HD1000107	1123	HE-M8489	1102	HEPC7404P	1802	HEPS7005	2055	HGR3	1104	HR-9A	2007	HR59	2010
HD1000107-0	1123	HE-OA90	1123	HEPC7408P	1822	HEPS7006	2055	HGR4	1104	HR9A	2007	HR-60	2009
HD1000301	1123	HEP-0700	1124	HEPC7447AP	1805	HEPS9100	2060	HGR-5	1104	HR10	1104	HR60	2010
HD1000302	1123	HEP1	2007	HEPC7447P	1805	HEPS9150	2068	HG-R10	1104	HR-11	2009	HR-61	2007
HD1000303-0	1123	HEP2	2007	HEPC7490AP	1808	HEPZ0211	563	HGR-10	1104	HR11	1104	HR61	2007
HD-2000106	1102	HEP3	2007	HEPG0001	2007	HEPZ0214	561	HGR-20	1104	HR-11A	2009	HR62	2009
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HD2000307	1104	HEP104	562	HEPG0007P/G	2007	HEPZ0415	563	HJ17D	2007	HR12F	2030	HR71	2023
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HD2000501	1104	HEP154	1104	HEPP5002	134	HEPZ0419	564	HJ23D	2007	HR13A	2009	HR78	2058
HD2000510	1104	HEP155	1102	HEPR0050	1104	HE-SD1	1104	HJ32	2007	HR-14	2016	HR79	2010

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[illegible]	[illegible]	HT[illegible]474	2041	HT304531A	2009	HT309301D	2010	HV/12B	563	ID101	1067	(IR)2SC828A	2058
[illegible]	[illegible]	HT[illegible]474X	2041	HT304531B	2009	HT309301E	2016	HW15	564	ID102	1067	(IR)2SC829B	2009
[illegible]/NPN)	[illegible]	HT[illegible]41B	2016	HT304531C	2009	HT309301F	2016	HW15A	564	ID103	1067	(IR)2SC838	2009
[illegible](PNP)	[illegible]	HT[illegible]1D	2009	HT304540A0	2010	HT309451-0	2016	HW15B	564	ID104	1067	(IR)2SC945	2016
[illegible]	[illegible]	HT101011X	2007	HT304540AO	2009	HT309451B0	2016	HX50001	2010	IDAZ3399	565	IR5JA	1123
HR 200	1142	HT101021A	2007	HT304540B0	2009	HT309680B	2030	HX50002	2009	IDAZ3399A	565	IR10E6J	1104
HR43836	2007	HT102341	2007	HT304540BO	2009	HT309714A-0	2030	HX50003	2010	IE12Z5	563	IR10E6X	1103
HR40837	2007	HT102341A	2007	HT304580	2009	HT309841B0	2030	HX-50063	2009	IE4608	2050	IR20	1104
HR43835	2007	HT102341B	2007	HT304580A	2009	HT309841BO	2030	HX-50072	2009	IE850	2009	IR106A1	1067
HR43838	2007	HT102341C	2007	HT304580B	2009	HT309842A-0	2009	HX-50091	2058	IF-65	2007	IR106A1-C	1067
HR4[illegible]30	2007	HT102351	2007	HT304580C0	2009	HT309842A-O	2030	HX-50092	2069	IF65	2007	IR106A2	1067
HR45910	2007	HT102351A	2007	HT304580CO	2009	HT310001F	2016	HX-50094	2023	IM4004	1104	IR106A3	1067
HR45913	2007	HT103501	2007	HT304580X	2009	HT310002A	2016	HX-50097	2009	IN60-1	1123	IR106A4	1067
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KSD1051	2041	LID929	2016	LM1153	2023	LZZ1-12	563	M71A	1104	M720B	1114	M4553	2007
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LDA402	2009	LM1133	2059	LT1016E	2010	M67	1104	M690A	1104	M4477	2007	M4943	2023
LDA404	2030	LM1138	2058	LT1016H	2058	M67A	1104	M690B	1104	M4482	2007	M4952	2009
LDA405	2030	LM1138E	2058	LT1016I	2010	M67B	1104	M690C	1104	M4483	2007	M4953	2009
LDA406	2030	LM1138E/F	2058	LT1016I,H	2009	M67C	1104	M700	1104	M4484	2007	M4970	2009
LDA408	2030	LM1138F	2058	LT1016T,H	2009	M68	1104	M700A	1104	M4485	2007	M4989	2023
LDA410	2016	LM1138G	2058	LTE1016	2058	M68A	1104	M700B	1104	M4486	2007	M5143	1759
LDA420	2060	LM1138G/F	2058	LTE1016(G.E.)	2010	M68B	1104	M700C	1104	M4501	2007	M5143P	1759
LDA454	2023	LM1138G/H	2010	LTH1016	2058	M68C	1104	M701B	1104	M4504	2007	M5144P	1759
LDA455	2023	LM1138H	2058	LTH1016(G.E.)	2010	M69	1104	M702	1114	M4506	2007	M5169	1757
LDS200	2030	LM1138H/I	2058	LTI1016	2010	M69A	1104	M702B	1114	M4507	2007	M5169P	1757
LDS201	2030	LM1138I	2058	LU2N544	2007	M69B	1104	M702C	1104	M4509	2007	M5176P	1757
LDS206	2009	LM-1147	2009	LVA150	565	M69C	1104	M710	1104	M4524	2007	M5215	2007
LDS207	2016	LM-1148	2009	LVA450	565	M70	1104	M710A	1104	M4525	2023	M6840	2007
LDS208	2060	LM-1149	2023	LZ4.7	565	M70A	1104	M710B	1104	M4526	2007	M6931	2023
LDS210	2009	LM-1150	2023	LZZ1-5.1	565	M70B	1104	M710C	1104	M4545	2007	M7003	2009
LDS257	2023	LM-1151	2023	LZZ1-6.2	561	M70C	1104	M720	1114	M4545BLU	2007	M7006	2009
LF353N	1715	LM-1153	2023	LZZ1-9.1	562	M71	1104	M720A	1114	M4545WHT	2007	M7014	2009

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M7015	2009	M9576	2020	MA884	2007	MC035	1104	MC53200	1801	ME216	2009	MHT5904	2020
M7033	2009	M9594	2016	MA885	2007	MC040	1104	MCC555A	1723	ME217	2009	MHT7408	2030
M7108	2009	M9649	2023	MA886	2007	MC040A	1104	MCC555B	1723	ME409-02B	562	MHT7410	2030
M7108/A5N	2009	M9661	2020	MA887	2007	MC070	1114	MCR101	1067	ME501	2023	MHT7412	2030
M7109	2009	M9666	2041	MA888	2007	MC070A	1114	MCR102	1067	ME502	2023	MHT7414	2030
M7109/A5P	2009	M9676	2020	MA889	2007	MC080	1114	MCR103	1067	ME900	2009	MHT7417	2030
M7127	2023	M9676/NPN	2020	MA890	2007	MC080A	1114	MCR104	1067	ME900A	2009	MHT7601	2041
M7127/P2S	2023	M31001	2009	MA891	2007	MC090	1114	MCR106-1	1067	ME901	2009	MHT7602	2041
M7171	2009	M41032A	1114	MA892	2007	MC090A	1114	MCR106-2	1067	ME901A	2009	MHT7603	2041
M7543-1	2041	M41223-2	1104	MA893	2007	MC2	1102	MCR106-3	1067	ME1001	2009	MHT7604	2041
M8014(TRANSISTOR)		M51841P	1723	MA894	2007	MC19	1104	MCR106-4	1067	ME1002	2009	MHT7605	2041
	2007	M53200	1801	MA895	2007	MC70M12	1771	MCR107-1	1067	ME1075	2030	MHT7606	2041
M8062A	2007	M53200P	1801	MA896	2007	MC100	1114	MCR107-2	1067	ME1100	2041	MHT9001	2030
M8062B	2007	M53201	1801	MA897	2007	MC100A	1114	MCR107-3	1067	ME1130	2055	MHT9002	2030
M8062C	2007	M53201P	1801	MA898	2007	MC101	2007	MCR107-4	1067	ME2001	2009	MHT9003	2030
M8073B	2007	M53204	1802	MA899	2007	MC103	2007	MCR115	1067	ME2002	2009	MHT9004	2030
M8073C	2007	M53204P	1802	MA-900	1123	MC1330P	1757	MCR120	1067	ME3002	2010	MI-15R	1104
M8105	2009	M53247	1805	MA900	2007	MC170	1104	MCR406-1	1067	ME3011	2010	MI15RC	1104
M8116	2007	M53247P	1805	MA901	2007	MC301	1102	MCR406-2	1067	ME4001	2009	MI-15S	1104
M-8124	1124	M53290	1808	MA902	2007	MC308	1123	MCR406-3	1067	ME4002	2009	MI15SC	1104
M8124	2007	M53290P	1808	MA903	2007	MC456	1104	MCR406-4	1067	ME4003	2009	MI-152	1114
M8221	2009	M75516-2	2007	MA904	2007	MC1330	1757	MCR407-1	1067	ME4003C	2009	MI-152A	1114
M8222	1104	M75516-2P	2007	MA909	2007	MC1330P	1757	MCR407-2	1067	ME4101	2009	MI-152R	1114
M8399	1104	M75516-2R	2007	MA910	2007	MC1350	1758	MCR407-3	1067	ME4102	2009	MI-152RA	1114
M8402	1124	M-75517-1	2007	MA1051	565	MC1350P	1758	MCR407-4	1067	ME4103	2009	MI301	1102
M8482C	1124	M75517-1	2007	MA1062	561	MC1350PQ	1758	MCS2135	2061	ME4104	2009	MI1546	2010
M8482F	1124	M75517-2	2007	MA1120	561	MC1358	1759	MCS2137	2061	ME5001	2010	MI9623	2009
M8482FA-4	1124	M-75536-1	2030	MA1125	1759	MC1358P	1759	MCV	1104	ME6001	2009	MI9630	2009
M8489	1103	M-75536-2	2030	MA1128	1759	MC1358PQ	1759	MD04	1104	ME6002	2009	MIC723-(D.I.P.)	1740
M8489-A	1123	M75543-1	2020	MA1150	564	MC1455P	1723	MD-34	1123	ME6003	2009	MIC7400J	1801
M-8489A	1102	M75545-1	2015	MA1150A	564	MC1455P1	1723	MD34	1123	ME6101	2023	MIC7400N	1801
M8489A	1103	M75547-1	2010	MA1318	2007	MC1458	038	MD34A	1123	ME8001	2030	MIC7401J	1801
M8604	2007	M75547-2	2010	MA1700	2007	MC1458CP1	038	MD35	1123	ME8002	2030	MIC7401N	1801
M8604A	2007	M75549-2	2041	MA1702(DIODE)	1102	MC1458P	038	MD38	1123	ME8003	2030	MIC7404J	1802
M8640E	2007	M-75557-1	2009	MA1703	2007	MC1458P1	038	MD46	1123	ME8101	2010	MIC7404N	1802
M8640E(C-M)	1102	M-75557-2	2009	MA1703(DIODE)	1102	MC1458V	038	MD54	1123	ME8201	2010	MIC7490J	1808
M8640E(DIO)	1102	M-75557-3	2009	MA1704	2007	MC1520	1104	MD56	1123	ME9001	2009	MIC7490N	1808
M8640E(XSTR)	2007	M-75557-4	2009	MA1704(DIODE)	1102	MC1521	1104	MD60	1123	ME9002	2010	MIS13674-47	2023
M-8641	2009	M-75557-5	2009	MA1705	2007	MC1522	1104	MD134	1104	ME9003	2010	MJ1105	2055
M9010	2010	M-75557-6	2009	MA1706	2007	MC1523	1104	MD135	1104	ME9021	2010	MJ139A	2059
M9032	2010	M75561-7	2007	MA1707	2007	MC1524	1104	MD136	1104	ME9022	2010	MJ480	2041
M9095	2009	M75565-1	2009	MA1708	2007	MC1527	1114	MD137	1104	MEF-25	2009	MJ481	2041
M9138	2030	M105064	1101	MA3065	1759	MC1528	1114	MD138	1104	MEM4001	2401	MJ490	2043
M9148	2007	M755162-P	2007	MA4101	2009	MC1529	1114	MD139	1104	MEM4011	2411	MJ491	2043
M9159	2009	M755162-R	2007	MA4102	2009	MC1723CL	1740	MD234	1104	MEM4013	2413	MJ-7251	2030
M9170	2009	MA0404	2023	MA4103	2009	MC1741CP1	007	MD235	1104	MEM4049	2449	MJ2000	2041
M9184	2030	MA0414	2023	MA4104	2009	MC1741NCP1	007	MD236	1104	MER-65-L11324	1103	MJ2001	2041
M9197	2016	MA1	2007	MA4404	2007	MC2326	1102	MD420	2007	MEZ1-5.1	565	MJ2802	2041
M9198	2007	MA2	1104	MA4404A	2007	MC2526	1123	MD501	2007	MEZ1-6.2	561	MJ2901	2043
M9206	1104	MA3	1123	MA6001	2009	MC3301P	1713	MD501B	2007	MEZ1-9.1	562	MJ2955	2043
M9209	2030	MA4	1123	MA6002	2009	MC3302	1712	MD604A	1123	MEZ1-12G	563	MJ3480	2055
M9221	2030	MA-10	2060	MA6003	2009	MC3302P	1712	MD753	561	MEZ1-15	564	MJ6302	2041
M9226	2009	MA10	2060	MA6101	2030	MC5321	1102	MD753A	561	MEZ12T5	563	[illegible]	2055
M9228	2030	MA23(B)	1123	MA6102	2009	MC6008	561	MD757	562	MEZ12T10	563	MJ12002	2055
M9235	1104	MA47	1123	MA8001	2030	MC6008A	561	MD757A	562	MEZ15T5	564	MJ12003	2055
M9244	2041	MA50	1104	MA8002	2030	MC6016	563	MD759	563	MEZ-15T5A	564	MJ15002	2043
M9248	2009	MA51A	1123	MA9426	2009	MC6016A	563	MD759A	563	MEZ15T10	564	MJE29	2020
M9249	2007	MA55	1123	MAC77-1	1001	MC6018	564	MD982	2023	MEZ15T10C	564	MJE29A	2020
M9250	2007	MA56	1102	MAC77-2	1001	MC6018A	564	MD982F	2023	MF1161	2010	MJE29B	2020
M9259	2041	MA90	1123	MAC77-3	1001	MC6108	561	MDA100	1151	MF1162	2010	MJE29C	2020
M9266	2016	MA100	2007	MAC77-4	1001	MC6108A	561	MDA101	1171	MF1163	2010	MJE31	2020
M9269	2016	MA101	1104	MAC77-5	1000	MC6116	563	MDA104	1173	MF1164	2010	MJE31A	2020
M9278	2041	MA102	1104	MAC77-6	1000	MC6116A	563	MDA920-1	1171	MF3364	2023	MJE31B	2020
M9282	2009	MA110	1104	MAQ7786	2009	MC6118	564	MDA920-2	1104	MG9623	2009	MJE31C	2020
M9293	2016	MA112	2007	MAS20	2007	MC6118A	564	MDA920-5	1173	MG377	1103	MJE32	2020
M9302	2041	MA113	2007	MAS21	2007	MC7400	1801	MDA920-6	1173	MGLA47	565	MJE32A	2020
M9312	1104	MA114	2007	MAS22	2007	MC7400F	1801	MDA942-2	1171	MGLA47B	565	MJE32B	2020
M9314	1104	MA115	2007	MAS23	2007	MC7400L	1801	MDA942-4	1173	MGLA51	565	MJE32C	2020
M9317	1104	MA116	2007	MB-01	1152	MC7400N	1801	MDA942-5	1173	MGLA51A	565	MJE41	2020
M9319	1104	MA117	2007	MB01	1104	MC7400P	1801	MDA942A-1	1171	MGLA51B	565	MJE41A	2020
M9321	2041	MA150	1103	MB-04	1173	MC7401F	1801	MDA942A1	1171	MGLA62	561	MJE41B	2020
M9329	2016	MA150DD	1102	MB-4-01	1171	MC7401L	1801	MDA942A-2	1171	MGLA62A	561	MJE41C	2020
M9334	2023	MA150LF	1103	MB-4-04	1173	MC7401P	1801	MDA942A-4	1173	MGLA62B	561	MJE101	2027
M9338	2016	MA150TA	1103	MB244	1104	MC7404L	1802	MDA942A-5	1173	MGLA91	562	MJE102	2027
M9348	2027	MA161	1103	MB257	1104	MC7404P	1802	MDA942A5	1173	MGLA91A	562	MJE103	2027
M9380	2030	MA161C	1103	MB258	1104	MC7408L	1822	MDP173	1102	MGLA91B	562	MJE201	2020
M9384	2016	MA162	1103	MB269	1104	MC7408P	1822	MDS31	2007	MH67	1104	MJE202	2020
M9389	2059	MA162LF	1103	MB270	1104	MC7447L	1805	MDS32	2007	MH68	1104	MJE205K	2020
M9409	2016	MA165	1103	MB400	1801	MC7447P	1805	MDS33	2007	MH70	1104	MJE520K	2020
M9412	2023	MA203	1104	MB416	1801	MC7490F	1808	MDS33A	2007	MH71	1104	MJE521K	2020
M9416	2016	MA206	2007	MB418	1802	MC7490L	1808	MDS33C	2007	MH72	1114	MJE2021	2020
M9447	2016	MA211	1104	MB513AR	1102	MC7490P	1808	MDS33D	2007	MH73	1114	MJE2300	2020
M9450	2016	MA215	1104	MB601	1801	MC7812CT	1771	MDS34	2007	MH500	1104	MJE2301	2020
M9467	2023	MA238	2007	MB84011	2411	MC9427	2009	MDS35	2007	MH570	1104	MJE2302	2020
M9474	2016	MA240	2007	MB84011-U	2411	MC14001	2401	MDS36	2007	MH680	1104	MJE2303	2020
M9475	2009	MA242	1104	MB84011B	2411	MC14001CP	2401	MDS37	2007	MH700	1104	MJE2480	2020
M9481	2016	MA242C	1104	MB84011M	2411	MC14011	2411	MDS38	2007	MH710	1104	MJE2481	2020
M9482	2010	MA242RC	1114	MB84011U	2411	MC14011B	2411	MDS39	2007	MH720	1114	MJE2482	2020
M9486	2016	MA286	2007	MB84011V	2401	MC14011BCP	2411	MDS40	2007	MH730	1114	MJE2483	2020
M9491	2009	MA287	2007	MBD101	1124	MC14011CP	2411	ME0404	2023	MH9410A	2030	MJE2520	2020
M9514	2023	MA288	2007	MBD102	1124	MC14013	2413	ME0404-1	2023	MH9623	2009	MJE2521	2020
M9515	2041	MA350	1104	MBI-101	1124	MC14013BCP	2413	ME0404-2	2023	MH9630	2009	MJE2522	2020
M9519	2030	MA351	1104	MC010	1104	MC14013CP	2413	ME0404A	2023	MHD619	1102	MJE2523	2020
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M9526	2023	MA393A	2007	MC020	1104	MC14017BCP	2417	ME0412	2061	MHM1101	2010	MJE3054	2020
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M9531	2023	MA393C	2007	MC021	1104	MC14023	2423	ME0414	2061	MHT2418	2030	MJES191	2020
M9532	2009	MA393E	2007	MC021A	1104	MC14023B	2423	ME0461	2023	MHT4401	2030	MJF3370	2027
M9547	2016	MA393G	2007	MC022	1104	MC14023BCP	2423	ME0462	2023	MHT4411	2030	MJR1C	1104
M9561	2030	MA393R	2007	MC022A	1104	MC14023CP	2423	ME0475	2061	MHT4412	2030	ML723CM	1740
M9562	2030	MA433	1124	MC023	1104	MC14049	2449	ME-1	2009	MHT4413	2030	ML723CP	1740
M9563	2009	MA790	1123	MC023A	1104	MC14049B	2449	ME-2	2009	MHT4451	2030	ML741CS	007
M9568	2009	MA815	2007	MC025	1104	MC14049CP	2449	ME-3	2009	MHT4483	2030	ML1458S	038
M9570	2009	MA881	2007	MC030	1104	MC14049UBCP	2449	ME-4	1102	MHT4511	2030	ML2012	1102
M9571	2023	MA882	2007	MC030A	1104	MC14066	2466	ME213	2009	MHT4512	2030	MLM139	1712
M9575	2010	MA883	2007	MC030B	1104	MC14066B	2466	ME213A	2009	MHT4513	2030	MLM139A	1712

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MLM139L	1712	MN60	2007	MPS3638	2023	MPS6574-B	2030	MPS9625D	2058	MPSA20-BLU	2016	MR1032B	1114
MLM224L	1711	MN60(DIODE)	1123	MPS-3638A	2023	MPS6574-BLUE	2030	MPS9625E	2058	MPSA20-GRN	2016	MR1032BR	1114
MLM224P	1711	MN380	706	MPS3638A	2023	MPS6574-G	2030	MPS9625F	2058	MPSA20-RED	2016	MR1033A	1114
MLM239AL	1712	MN380H	706	MPS3639	2023	MPS6574-S	2030	MPS9625G	2058	MPSA20-WHT	2016	MR1033AR	1114
MLM239L	1712	MP-01	1104	MPS3640	2023	MPS6574-SIL	2030	MPS9625H	2058	MPSA20-YEL	2016	MR1033B	1114
MLM324	1711	MP01	1104	MPS3642	2009	MPS6574-Y	2030	MPS9626	2009	MPSA42	2061	MR1033BR	1114
MLM324L	1711	MP-04	1173	MPS3643	2009	MPS6574-YEL	2030	MPS9626G	2009	MPSA43	2061	MR1034A	1114
MLM324P	1711	M-P3D	2007	MPS3644	2023	MPS6575	2009	MPS9626H	2009	MPS-A55	2023	MR1034AR	1114
MLM324P1	1711	MP100	1104	MPS3645	2023	MPS6575GREEN	2059	MPS9626I	2009	MPSA55	2023	MR1034B	1114
MLM339AL	1712	MP225	1104	MPS3646	2009	MPS6576	2009	MPS9630	2009	MPS-A56	2023	MR1034BR	1114
MLM339L	1712	MP300	1104	MPS3693	2009	MPS6576-B	2009	MPS9630H	2009	MPSA56	2023	MR1035A	1114
MM0	1104	MP400	1104	MPS3694	2009	MPS6576-BLUE	2009	MPS9630H.I	2009	MPSA70	2023	MR1035AR	1114
MM2	1104	MP500(RECT.)	1104	MPS-3702	2023	MPS6576-G	2009	MPS-9630I	2009	MPSA70-BLU	2061	MR1035B	1114
MM3	1104	MP549	1143	MPS3702	2023	MPS6576-GREEN	2009	MPS9630I	2009	MPSA70-GRN	2061	MR1035BR	1114
MM4	1104	MP651	1104	MPS3703	2023	MPS6576-S	2009	MPS9630J	2009	MPSA70-RED	2061	MR1036A	1114
MM5	1104	MP1003-1	1104	MPS3704	2009	MPS6576-SIL	2009	MPS9630K	2009	MPSA70-WHT	2061	MR1036AR	1114
MM6	1104	MP1003-2	1104	MPS-3705	2009	MPS6576-Y	2009	MPS9630T	2009	MPSA70-YEL	2023	MR1036B	1114
MM7	1114	MP1003-4	1104	MPS3705	2009	MPS6576-YEL	2059	MPS9631	2009	MPSAY2	2061	MR1036BR	1114
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MM9	1114	MP1014-2	2009	MPS3706#	2009	MPS6576SIL	2009	MPS9631J	2009	MPSD02	2061	MR1038AR	1114
MM10	1114	MP1014-4	2007	MPS3707	2009	MPS6579	2023	MPS9631K	2009	MPSD03	2061	MR1038B	1114
MM306	2030	MP1014-5	2007	MPS3708	2009	MPS6580	2023	MPS9631S	2009	MPSD05	2009	MR1038BR	1114
MM380	2007	MP1014-6	2007	MPS3709	2009	MPS6590	2009	MPS9631T	2009	MPSD06	2009	MR1040A	1114
MM404A	2007	MP5113	1104	MPS3710	2009	MPS6591	2023	MPS9632	2009	MPSD55	2023	MR1040AR	1114
MM486	2030	MP-5115	1104	MPS3711	2009	MPS7513	2058	MPS9632(I)	2009	MPSD56	2023	MR1040B	1114
MM487	2030	MP8111	2020	MPS3721	2009	MPS8001	2009	MPS9632(K)	2009	MPSEL239	2009	MR1040BR	1114
MM488	2030	MP8112	2020	MPS3826	2009	MPS8097	2009	MPS9632H	2009	MPSH02	2058	MR1337-1	1104
MM511	2030	MP9602	1104	MPS3827	2009	MPS8098	2009	MPS9632I	2009	MPS-H04	2061	MR1337-2	1104
MM512	2030	MP4300158	1103	MPS3900	2009	MPS8099	2009	MPS9632J	2009	MPSH04	2061	MR1337-3	1104
MM513	2030	MP4906063	2030	MPS3900A	2009	MPS8598	2023	MPS9632K	2009	MPSH05	2061	MR1337-4	1104
MM709	2010	MPC1458C	038	MPS3901	2009	MPS8599	2023	MPS9632T	2009	MPSH07	2010	MR1337-5	1104
MM869B	2009	MPC3500	1102	MPS3904	2016	MPS9185	2009	MPS9633	2016	MPSH08	2010	MR2064	1104
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OA90FV	1123	OC-72	2007	OC-363	2007	OS536885	1104	P3D	2007	P10619-1	2041	PBC108A	2016
OA90G	1123	OC72	2007	OC363	2007	OY101	1104	P3D5	1104	P-10954-1	2041	PBC108B	2016
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OA90LF	1123	OC73	2007	OC364	2007	OY5061	1104	P3Z	2023	P-11748-1	2030	PBC109	2016
OA90M	1123	OC-74	2007	OC-390	2007	OY-5062	1104	P4A5	1104	P-11901-1	2041	PBC109B	2016
OA90MLF	1123	OC74	2007	OC390	2007	OY5062	1104	P4B5	1104	P-11903-1	2030	PBC109C	2016
OA90Z	1123	OC74N	2007	OC400	2007	OY5063	1104	P4C	2023	P12407-1	2023	PBC182	2010
OA90ZA	1123	OC-75	2007	OC-410	2007	OY5064	1104	P4C5	1104	P15153	2009	PBC183	2059
OA91	1123	OC75	2007	OC410	2007	OY5065	1104	P4D5	1104	P21309	1124	PBE3162-1	2007
OA92	1123	OC-75N	2007	OC430	2023	OY5066	1104	P4G	2023	P21316	1104	PBE3162-2	2007
OA95	1123	OC75N	2007	OC430K	2023	OY5067	1114	P4J14	2020	P21317	1104	PBE3322	1123
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OA126/12	563	OC-77	2007	OC440K	2023	OZ5.1T10	565	P4P	2023	P21443	1104	PBX113	2007
OA126-12	563	OC77	2007	OC443	2023	OZ6.2T5	561	P4R	2023	P38103/507-10	564	PC02P1/2	1104
OA127	1104	OC77M	2007	OC443K	2023	OZ6.2T10	561	P4W	2027	P50200-11	2041	PC0211/2	1104
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OA129	1104	OC-79	2007	OC445K	2023	OZ12T10	563	P4Z	2030	P69941	2016	PC100	2020
OA130	1104	OC79	2007	OC449	2023	OZ15T5	564	P5A5	1104	P633024	2030	PC110	2020
OA131	1104	OC80	2007	OC449K	2023	OZ15T10	564	P5B	2023	P633024C(SYLVANIA)		PC1007	2023
OA132	1104	OC81	2007	OC450	2023	P00347100	2023	P5B5	1104		2030	PC1007A	2023
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OA159	1123	OC81DD	2007	OC463	2023	P04-42-0011	1103	P5D	2023	P6450026	2030	PC1008B	2023
OA160	1123	OC81DN	2007	OC463K	2023	P04-44-0028	2009	P5D5	1104	P6460036	2007	PC4004	1104
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OA210	1104	OC-169	2007	OC468K	2023	P04410042-001	1103	P6RP8	1114	PA9D522/1	1171	PD104	1104
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OA214	1104	OC169R	2007	OC469K	2023	P04440028-001	2009	P7A5	1104	PA300	1104	PD106	1104
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OA2002	1102	OC170R	2007	OC-602	2007	P04440032-001	2009	P8/2H	1104	PA310A	1104	PD110	1104
OA2005	1102	OC170V	2007	OC602	2007	P04450016-004	2023	P8H	2027	PA315	1104	PD111	1104
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OC 34	2007	OC304-3	2007	OC704	2023	P1E-2BLU	2043	P480A0018	2030	PA400	1104	PD1002	2009
OC34	2007	OC304N	2007	OC711	2007	P1E-2GRN	2043	P480A0022	2023	PA600	1104	PD1011	1171
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OC 70	2007	OC-350	2007	OS-16308	1104	P2S	2023	P9962-2	2030	PADT31	2007	PE3002	2016
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OC 71	2007	OC351	2007	OS516308	1123	P3/2H	1104	P-10115	1104	PADT51	2007	PE5013	2009
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PEP5	2009	PL-152-044-9-001	562	PN930(NSC)	2009	PS616	1104	PT850A	2030	PXC101A	2007	Q-36	2023
PEP6	2009	PL-152-047-9-001	561	PN930(NTLB)	2009	PS617	1104	PT851	2009	PXC-101AB	2007	Q-36A	2023
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QRT-107	2009	QZ1.1T10	565	R83	2007	R684	2007	R3608-1	2030	R8242	2007	R2270777873D	2030
QRT-108	2016	QZ1.2T5	561	R87	2007	R714	2007	R3609-2	2030	R8243	2009	R2270778533	2041
QRT-108A	2009	QZ1.2T10	561	R98	2007	R715	2007	R3611-1	2030	R8244	2009	RA-1	1104
QRT-109	2009	QZ12T5	563	R100-1	2007	R853-2	1104	R3619-2	1101	R8257	1123	RA1A	1102
QRT-113	2009	QZ12T10	563	R100-8	2007	R860	2007	R3676-1	2059	R8259	2009	RA1B	1104
QRT-117	2007	QZ-15T5	564	R100-9	2007	R1000	1114	R3679	2030	R8260	2009	RA-1C	1114
QRT-126	2022	QZ15T5	564	R101-2	2007	R1001	1047	R3681-1	2030	R8261	2009	RA1Y	1104
QRT-126A	2023	QZ-15T10	564	R101-3	2007	R1002	1047	R4057	2009	R8305	2009	RA1Z	1104
QRT-131	2041	QZ15T10	564	R101-4	2007	R1003	1047	R4340	2007	R8310	2007	RA-1ZC	1104
QRT-134	2010	QZ1575	564	R104-5	2007	R1004	1047	R4349	2007	R8311	2007	RA1ZC	1104
QRT-135	2010	R0084A	1114	R104-6	2007	R1005	1047	R4369	2041	R8312	2009	RA-2	1114
QRT-139	2055	R0085	1114	R104-7	2007	R1033	1104	R5048	2030	R8314	1102	RA2	1114
QRT-141	2055	R0081	1114	R104-8	2007	R1106	1123	R5051	2007	R8344	563	RA2C	1114
QRT-144	2048	R0083	1114	R118	2010	R1107	1123	R5052	2007	R8472	1104	RA132AA	1114
QRT-146	2020	R0086	1114	R-119	2007	R1109	1123	R5053	2007	R8473	1104	RA132BA	1104
QRT-152	2020	R0090	1114	R119	2007	R1215(HEP)	1047	R5055	2007	R8475	1123	RA132DA	1114
QRT-153	2007	R0091	1114	R-120	2007	R1217(HEP)	1047	R5096	1123	R8477	1101	RA132MA	1114
QRT-154	2020	R0094	1114	R120	2007	R1273	2007	R5097	2007	R8528	2009	RA132PA	1114
QRT-156	2020	R0096	1114	R122C	1104	R1274	2007	R5098	2007	R8529	2010	RA132RA	1114
QRT-158	2020	R0097	1114	R123	2030	R1329	1104	R5099	2007	R8530	2009	RA132VA	1114
QRT-173	2009	R0098	1114	R123-2	2030	R-1348	563	R5100	2007	R8543	2009	RA6-PS-821	1740
QRT-183	2007	R027	1143	R123-3	2030	R1529	2007	R5102	2007	R8551	2009	RB-151	1171
QRT-187	2009	R06-1001	2010	R123-4	2030	R1540	2007	R5103	2007	R8552	2009	RB402	1114
QRT-188	2007	R06-1002	2010	R123-5	2030	R1541	2007	R5181	2007	R8553	2009	RC080	1114
QRT-200	1123	R06-1003	2010	R135-1	2041	R1542	2007	R5522	1123	R8554	2009	RC555	1723
QRT-202	1124	R06-1004	2010	R-152	2007	R1543	2007	R5523	2007	R8555	2009	RC723D	1740
QRT-203	1114	R06-1005	2010	R152	2007	R1544	2007	R5524	2007	R8556	2009	RC741DN	007
QRT-210	1114	R06-1006	2010	R-154B	1104	R1546	2007	R5525	2007	R8557	2009	RC1458DE	038
QRT-212	1104	R06-1007	2007	R154B	1171	R1549	2007	R5708	2007	R8559	2007	RC1458DN	038
QRT-213	1104	R06-1008	2007	R-162	2007	R1550	2007	R5740-1	2007	R8560	1101	RC-1700	2041
QRT-214	1104	R06-1009	2007	R163	2007	R1554	2007	R5970	1104	R8620	2009	RC1700	2041
QRT-215	1104	R06-1010	2007	R-164	2007	R1555	2007	R5971	1104	R8641	1114	RC2270	2030
QRT-218	1102	R088	1114	R164	2007	R1867	1123	R6048	1104	R8644	2009	RCA1A01	2030
QRT-220	1101	R0102	1104	R170	1114	R1889	1123	R6110	1104	R8647	2009	RCA1A06	2030
QRT-222	1101	R-1	1104	R-186	2007	R2139	1104	R6422	1104	R8648	2009	RCA1A07	2030

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RCA1A17	2030	RD15FA	564	RE171	1067	REN5401	1067	RH-DX0008CEZZ	1104	RR8119	2010	RS-2023	2023
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RCA1B06	2041	RD15M	564	RE179	1001	REN5454	1067	RH-DX0025CEZZ	1104	RR8989	2010	RS2025	2027
RCA1C05	2020	RD15S	564	RE182	1001	REN5455	1067	RH-DX0026AGZZ	1104	RR8999	2010	RS-2029	2029
RCA1C07	2020	RD16AM	564	RE185	1000	REN5457	1020	RH-DX0033TAZZ	1103	RRB24-06	1104	RS-2030	2009
RCA1C09	2020	RD-16H	564	RE192	2016	REN5640	1001	RHDX0033TAZZ	1102	RS-05	1141	RS-2032	2023
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RCA1C14	2020	RD 16HA	564	RE205	2020	REN5642	1000	RH-DX0041CEZZ	1104	RS10	1104	RS-2034	2023
RCA29	2020	RD51EB	565	RE207	2061	REN7400	1801	RH-DX0042CEZZ	1104	RS-101	2007	RS2039	2041
RCA29/SDH	2020	RD 91	562	RE222	2020	RET20	1104	RH-DX0043TAZZ	1104	RS-103	2007	RS2040	2043
RCA29A	2020	RD 91E	562	RE228	2060	RF-1A	1104	RHDX0043TAZZ	1104	RS-107	2009	RS2041	2041
RCA29A/SDH	2020	RD91E	562	RE233	2055	RF200	2016	RH-DX0046CEZZ	1102	RS-108	2009	RS2043	2043
RCA29ASDH	2020	RD 96	562	RE235	2023	RF1811	1123	RH-DX0048CEZZ	1103	RS-109	2010	RS-2350	2007
RCA29B	2020	RD250	1104	RE255	1171	RF 3160	1104	RH-DX0054CEZZ	1102	RS-110	2023	RS2350	2007
RCA29BSDH	2020	RD1343	1102	RE258	2041	RF3160	1104	RH-DX0055TAZZ	1104	RS128	2009	RS-2351	2007
RCA29C	2020	RD-3472	1104	RE260	2058	RF3472	1104	RH-DX0056CEZZ	1104	RS132	2030	RS2351	2007
RCA29CSDH	2020	RD3472	1104	RE261	2059	RF5794	1101	RH-DX0059TAZZ	1104	RS136	2009	RS-2352	2007
RCA29SDH	2020	RD9037	1104	RE263	2059	RF-6235-1	1104	RH-DX0064CEZZ	1104	RS220AF	1104	RS2352	2007
RCA30	2027	RD-26235-1	1104	RE305-IC	1759	RF26231-1	1104	RH-DX0066TAZZ	1104	RS230AF	1104	RS-2353	2007
RCA30A	2027	RD26235-1	1104	RE-310-IC	1757	RF26234-1	1104	RH-DX0067TAZZ	1104	RS-253C	1102	RS2353	2007
RCA31	2020	RD 29799P	1104	RE310-IC	1757	RF26235-1	1104	RH-DX0068TAZZ	1104	RS-253S	1102	RS-2354	2007
RCA31A	2020	RD29799P	1104	RE-321-IC	706	RF26235-2	1104	RH-DX0069TAZZ	1104	RS-267S	1102	RS2354	2007
RCA31ASDH	2020	RD-31903P	1104	RE321 IC	706	RF26235 5	1104	RH-DX0072CEZZ	1104	RS-272US	1102	RS-2355	2007
RCA31B	2020	RD31903P	1104	RE357-IC	705	RF29799P	1104	RH-DX0073CEZZ	1104	RS-279US	2016	RS2355	2007
RCA31BSDH	2020	RE1	2007	RE1001	2010	RF31903P	1104	RH-DX0073TAZZ	1104	RS-280S	1102	RS-2367	2007
RCA31C	2020	RE2	1104	RE1002	2010	RF-32101-8	1104	RH-DX0079TAZZ	1104	RS322	2007	RS2367	2007
RCA31CSDH	2020	RE-3	2007	RE2001	2016	RF32101-8	1104	RH-DX0081TAZZ	1104	RS380	706	RS2373	2007
RCA31SDH	2020	RE3	1104	RE2002	2016	RF32101-9	1104	RH-DX0083CEZZ	1104	RS-406	2007	RS2374	2007
RCA41A	2020	RE-4	2007	RE3001	2010	RF-32101R	1104	RH-DX0086TAZZ	1104	RS406	2007	RS-2675	2007
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RCA120	2068	RE9	2010	RE4002	2016	RF32645	1104	RH-DX0100CEZZ	1104	RS-684	2007	RS2677	2007
RCA121	2068	RE-10	2010	RE4010	2016	RF33550-1	1123	RH-DX0101-CEZZ	1104	RS684	2007	RS2679	2007
RCA3054	2020	RE10	2010	RE5001	2016	RF33976	1104	RH-DX0101CEZZ	1104	RS-685	2007	RS2680	2007
RCA3055	2020	RE-12	2009	RE5002	2016	RF34383	1104	RHDX0101CEZZ	1104	RS685	2007	RS-2683	2007
RCA3517	2007	RE12	2009	RECT-SI-154	1104	RF34661	1102	RH-DX0105TAZZ	1104	RS-686	2007	RS2683	2007
RCA3858	2007	RE-13	2009	RECT-SI-1001	1104	RF34720	1104	RH-DX0106CEZZ	1104	RS686	2007	RS-2684	2007
RCA34098	2007	RE13	2009	RECT-SI-1002	1104	RF35123	1123	RH-DX0114CEZZ	1104	RS-687	2007	RS2684	2007
RCA34099	2007	RE15	2007	RECT-SI-1005	1104	RF60034	1123	RH-DX0123CEZZ	1104	RS687	2007	RS-2685	2007
RCA34100	2007	RE-17	2030	RECT-SI-1020	1104	RFA70597	1104	RHDX0123CEZZ	1104	RS-805US	2016	RS2685	2007
RCA34101	2007	RE17	2030	REJ70642	1104	RFA70600	1104	RH-DX0142CEZZ	1103	RS1049	2009	RS-2686	2007
RCA34106	2007	RE-19	2041	REJ70931	1104	RFC61197	1104	RH-DX1005AFZZ	1104	RS1059	2009	RS2686	2007
RCA35953	2007	RE19	2041	REJ71253	1102	RFJ6134	1104	RH-DY0003SEZZ	1104	RS-1192	2007	RS-2687	2007
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RCA40245	2016	RE21	2020	REN61	2043	RFJ30704	1104	RH-EX0015CEZZ	563	R-S1264	1104	RS-2688	2007
RCA40246	2016	RE-26	2023	REN62	2023	RFJ-31218	1104	RH-EX0024CEZZ	561	RS-1264	1104	RS2688	2007
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RCC7022	1101	RE28	2016	REN69	2007	RFJ31363	1104	RH-IX0014PAZZ	1770	RS-1347	1104	RS-2691	2007
RCC7225	1104	RE31	2055	REN70	2030	RFJ-33292	1104	RH-IX0017TAZZ	1759	RS1347	1104	RS2691	2007
RCS242	2041	RE-32	2055	REN90	1114	RFJ33292	1104	RH-IX0043CEZZ	1759	RS1348	563	RS-2692	2007
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RD3A-1B4	1104	RE-33	2060	REN100	2007	RFJ60172	1123	RKZ12003	1103	RS1458	038	RS-2694	2007
RD-5A	565	RE33	2060	REN102	2007	RFJ60173	1104	RKZ120101	1103	RS-1539	2007	RS2694	2007
RD5AN	565	RE-47	1104	REN102A	2007	RFJ60174	1104	RL005	1114	RS1539	2007	RS-2695	2007
RD58	565	RE47	1123	REN107	2010	RFJ60286	1104	RL010	1114	RS-1540	2007	RS2695	2007
RD5R1EBB1	565	RE48	1124	REN108	2010	RFJ-60366	1104	RL020	1114	RS1540	2007	RS-2696	2007
RD5.1E	565	RE-49	1104	REN109	1123	RFJ60366	1104	RL040	1114	RS-1541	2007	RS2696	2007
RD5.1EB	565	RE49	1104	REN112	1124	RFJ60614	1123	RL060	1114	RS1541	2007	RS-2697	2007
RD5 1EB2	565	RE-51	1114	REN114	1101	RFJ60869	1104	RL31	1123	RS-1542	2007	RS2697	2007
RD5.1EC	565	RE51	1114	REN115	1101	RFJ70147	1144	RL32	1123	RS1542	2007	RS2801	1123
RD5.1F	565	RE-52	1104	REN116	1104	RFJ70432	1104	RL32G	1123	RS-1543	2007	RS2867	2007
RD5.1JB	565	RE52	1102	REN120	1101	RFJ70487	1104	RL34	1123	RS1543	2007	RS2914	2009
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RD6.2FA	561	RE-61	2043	REN123A	2009	RFJ70703	1104	RL41	1123	RS1544	2007	RS-3275	2007
RD6.2FB	561	RE61	2043	REN125	1114	RFJ70931	1104	RL41G	1123	RS1545	2007	RS3275	2007
RD7H	561	RE62	2023	REN126	2007	RFJ70970	1104	RL42	1123	RS-1546	2007	RS-3276	2007
RD8H	562	RE63	2023	REN128	2030	RFJ70974	1104	RL52	1123	RS1546	2007	RS3276	2007
RD9	562	RE64	2016	REN130	2041	RFJ70977	1104	RL232G	1123	RS-1548	2007	RS-3277	2007
RD9A	562	RE65	2009	REN135	565	RFJ71122	1104	RL246	1123	RS1548	2007	RS3277	2007
RD9A(10)	562	RE67	2016	REN137	561	RFJ71123	1114	RL252	1123	RS-1550	2007	RS-3278	2007
RD-9A(L)	562	RE69	2007	REN139	562	RFJ71480	562	RL8-17	2016	RS1550	2007	RS3278	2007
RD-9AL	562	RE70	2030	REN142	563	RFJ72360	1104	RLF1G	1104	RS-1554	2007	RS-3279	2007
RD9A-N	562	RE72	2023	REN145	564	RFJ72787	1104	RM1	1104	RS1554	2007	RS3279	2007
RD-9L	562	RE78	2061	REN152	2020	RFJ711122	1104	RM1A	1104	RS-1555	2007	RS3280	2007
RD-9.1	562	RE-82	2043	REN153	2027	RFJZ0432	1104	RM-1AV	1104	RS1555	2007	RS3281	2007
RD9.1E	562	RE82	2043	REN156	1114	RFL-30596	1104	RM1B	1114	R-S-1720	1104	RS-3282	2007
RD9.1ED	562	RE-88	1101	REN159	2023	RFL30596	1104	RM1C	1114	RS1720	1104	RS3282	2007
RD9.1EK	562	RE88	1101	REN160	2007	RFM-33160	1104	RM-1V	1104	RS1726	2010	RS-3283	2007
RD9.1F	562	RE-89	1101	REN161	2016	RFM33160	1104	RM1Z	1104	RS1749	1104	RS3283	2007
RD9.1FA	562	RE89	1101	REN164	2055	RFP-33118	1104	RM1ZM	1104	R-S1805	1144	RS-3284	2007
RD9.1FB	562	RE 90	1114	REN165	2055	RFP33118	1104	RM-1ZV	1104	RS1805	1104	RS3284	2007
RD9.1M	562	RE90	1114	REN166	1171	RFV60500	1104	RM1ZV	1104	RS1811	1123	RS-3285	2007
RD11EC	563	RE91	1101	REN172	2060	RG100B	1104	RM2	1104	RS1832	1104	RS3285	2007
RD12	563	RE92	1114	REN172A	2060	RG100D	1104	RM2A	1114	RS-2002	2007	RS-3286	2007
RD12E	563	RE-94	1122	REN177	1102	RG100G	1104	RM-2AV	1114	RS-2003	2007	RS3286	2007
RD12EA	563	RE94	1103	REN194	2061	RG100J	1104	RM2B	1114	RS-2004	2007	RS3287	2007
RD12EB	563	RE105	565	REN196	2020	RG1004	1104	RM2C	1114	RS-2005	2007	RS-3288	2007
RD12EB1Z	563	RE-107	561	REN199	2016	RG1127	1104	RM2Z	1104	RS2008	2061	RS3288	2007
RD12E-B2Z	563	RE-109	561	REN219	2043	RGP-10B	1104	RM10M	1114	RS-2009	2009	RS-3289	2007
RD12EC	563	RE109	561	REN229	2058	RGP-10D	1104	RM-26	1104	RS2009	2009	RS3289	2007
RD12F	563	RE-114	562	REN233	2059	RH-1	1104	RM3005	2020	RS2010	2009	RS3293	2007
RD12FA	563	RE114	562	REN234	2023	RH1	1104	RMP5020	1104	RS-2011	2016	RS-3299	2007
RD12FB	563	RE-115	562	REN238	2055	RH-1BV	1104	RMVTC00921-3	1101	RS2012	2061	RS3299	2007
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RD12M	563	RE-118	563	REN287	2061	RH-1V	1104	RO102	1104	RS-2014	2030	RS3301	2007
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RS3316-1	2007	RS5302	2007	RS5731	2007	RS7105	2009	RS7407	2009	RS9512	2010	RT-929H	2009
RS-3316-2	2007	RS5303	2007	RS5732	2007	RS-7106	2010	RS7408	2009	RS15048	2009	RT929H	2009
RS3316-2	2007	RS-5305	2007	RS-5733	2007	RS7106	2010	RS7408(IC)	1822	RS-57042	2007	RT-930H	2009
RS-3318	2007	RS5305	2007	RS5733	2007	RS-7107	2010	RS-7409	2009	RS57042	2007	RT930H	2010
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RS3668	2007	RS5317	2007	RS5740-1	2007	RS-7113	2010	RS7421	2009	RT-102	2009	RT1689	1102
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RS3726	2007	RS5401	2007	RS5742	2007	RS-7114	2010	RS7490	1808	RT103	2009	RT-2016	1123
RS-3727	1104	RS5402	2007	RS-5743	2007	RS7114	2058	RS-7504	2009	RT-104	2016	RT2016	2009
RS3727	1104	RS5403	2007	RS5743	2007	RS-7115	2010	RS7504	2009	RT104	2009	RT2061(G.E.)	1102
RS3857	2007	RS-5406	2007	RS-5743-1	2007	RS7115	2010	RS7510	2009	RT-105	2016	RT2230	2007
RS-3862	2007	RS5406	2007	RS5743-1	2007	RS7116	2010	RS-7511	2009	RT105	2009	RT2309	2016
RS3862	2007	RS-5502	2007	RS-5743-2	2007	RS7117	2010	RS7511	2010	RT-106	2061	RT2329	2007
RS-3863	2007	RS5502	2007	RS5743-2	2007	RS7118	2010	RS-7512	2010	RT106	2023	RT2330	2007
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RS3864	2007	RS-5504	2007	RS5743-3	2007	RS7120	2010	RS7513	2009	RT107	2010	RT2332	2009
RS-3866	2007	RS5504	2007	RS5743.3	2007	RS7121	2009	RS7513-15	2009	RT-108	2016	RT2334	1123
RS3866	2007	RS-5505	2007	RS-5744	2007	RS7122	2010	RS7514	2009	RT108	2010	RT2452	1123
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RS-3868	2007	RS-5506	2007	RS-5744-3	2007	RS-7124	2009	RS7516	2009	RT-109	2061	RT2669	1104
RS3868	2007	RS5506	2007	RS5744-3	2007	RS7124	2010	RS7517	2009	RT109	2061	RT2694	1123
RS3880	2007	RS5507	2007	RS5745	2007	RS7125	2010	RS7517-19	2009	RT-112	2016	RT2709	2007
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RS-3902	2007	RS5533	2007	RS-5753	2007	RS7136	2009	RS7527	2009	RT-131	2041	RT3071A	2023
RS3902	2007	RS-5534	2007	RS5753	2007	RS7138	2010	RS7528	2009	RT131	2041	RT3072	1123
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RS3903	2007	RS-5535	2007	RS5753-2	2007	RS7140	2010	RS7530	2009	RT-134	2010	RT3097	2007
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RS3905	2007	RS5536	2007	RS-5755	2007	RS7143	2010	RS7542	2009	RT-141	2030	RT3225	2010
RS3906	2007	RS-5540	2007	RS5755	2007	RS7144	2010	RS7543	2009	RT141	2030	RT3226	2010
RS-3907	2007	RS5540	2007	RS-5756	2007	RS7145	2010	RS7544	2009	RT-144	2060	RT3227	2010
RS3907	2007	RS-5541	2007	RS5756	2007	RS7160	2009	RS7555	2009	RT-150	2020	RT3228	2009
RS-3911	2007	RS5541	2007	RS-5757	2007	RS7161	2010	RS7568	2007	RT150	2020	RT3229	2007
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RS3912	2007	RS5542	2007	RS-5758	2007	RS7163	2010	RS7606	2009	RT151	2027	RT3231	2007
RS-3913	2007	RS5543	2007	RS5758	2007	RS7164	2010	RS-7607	2009	RT-154	2041	RT3232	2010
RS3913	2007	RS-5544	2007	RS-5759	2007	RS7165	2010	RS7607	2009	RT154	2030	RT3233	1123
RS-3914	2007	RS5544	2007	RS5759	2007	RS7166	2010	RS-7609	2009	RT-155	2027	RT3336	1123
RS3914	2007	RS5545	2007	RS-5760	2007	RS7167	2010	RS7609	2009	RT155	2027	RT3361	2007
RS-3915	2007	RS-5551	2007	RS5760	2007	RS7168	2010	RS-7610	2009	RT-158	2020	RT3362	2007
RS3915	2007	RS5551	2007	RS-5761	2007	RS7169	2010	RS7610	2009	RT-172	1104	RT3363	2007
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RS3995	2007	RS5555	2007	RS-5802	2007	RS7201	2010	RS7614	2009	RT-202	1124	RT3469	1123
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RS4013	2413	RS-5557	2007	RS5818	2007	RS7209	2010	RS-7622	2009	RT210	1114	RT3565	2009
RS4017	2417	RS5557	2007	RS5825	2007	RS7210	2010	RS7622	2009	RT-212	1104	RT3566	2007
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RS-5008	2007	RS555[illegible]	2007	RS5851	2009	RS-7212	2010	RS7623	2009	RT213	1104	RT3568	2007
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RS5102	2007	RS5565	2007	RS-5853	2009	RS7215	2010	RS7626	2009	RT-215	1104	RT3671A	564
RS5103	2007	RS5566	2007	RS5853	2009	RS7216	2010	RS7627	2009	RT215	1104	RT-3858	1104
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RS5104	2007	RS5568	2007	RS5854	2007	RS7218	2010	RS7634	2009	RT218	1102	RT39[illegible]1	1104
RS-5105	2007	RS-5602	2007	RS-5856	2009	RS7219	2010	RS7635	2009	RT-220	1101	RT4050	1104
RS5105	2007	RS5602	2007	RS5856	2009	RS7220	2010	RS7636	2009	RT-222	1101	RT4069	1104
RS-5106	2007	RS5603	2007	RS-5857	2009	RS7221	2010	RS7637	2009	RT-223	1101	RT-4232	1104
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RS-5201	2007	RS-5708	2007	RS6523	2010	RS7229	2010	RS-7665A	2023	RT-267	2009	RT4761	2016
RS5201	2007	RS5708	2007	RS6705	1104	RS7230	2010	RS7672	2030	RT-268	2009	RT-4764	1114
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RS5203	2007	RS5708-2	2007	RS6822	2007	RS7232	2009	RS7814	2009	RT-270	2023	RT4767	1104
RS5204	2007	RS-5709	2007	RS6824	2007	RS7233	2050	RS8101	2030	RT-302	2059	RT5041	2010
RS-5205	2007	RS5709	2007	RS6840	2007	RS7234	2009	RS8103	2030	RT-303	2023	RT5[illegible]63	2007
RS5205	2007	RS-5711	2007	RS6843	2007	RS7235	2009	RS8105	2030	RT304	2009	RT5070	1104
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RS5206	2007	RS-5717	2007	RS6846	2007	RS7237	2010	RS8109	2030	RT-312	2009	RT5152	2030
RS-5207	2007	RS5717	2007	RS6846A	2007	RS7238	2009	RS8111	2030	RT-313	2010	RT5200	2010
RS5207	2007	RS5717-1	2007	RS7101	2010	RS7241	2009	RS8113	2030	RT-315	2061	RT5201	2010
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RS5208	2007	RS5717-3	2007	RS7102	2010	RS7333	2010	RS8430	1104	RT482	2030	RT5203	2030
RS-5209	2007	RS-5717-6	2007	RS-7103	2009	RS7334	2010	RS8442	2009	RT483	2030	RT5204	2030
RS5209	2007	RS5717-6	2007	RS7103	2009	RS7400	1801	RS[illegible]444	2007	RT484	2030	RT5205	2010
RS5243-2	2007	RS-5720	2007	RS-7104	2010	RS7404	1802	RS8503	2009	RT697M	2009	RT5206	2009
RS-5301	2007	RS5720	2007	RS7104	2010	RS7405	2009	RS9510	2010	RT699M	2030	RT5207	2009

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
RT5208	2016	RT7849	1104	RVD2DP22/1B	1104	S074-007-001	1102	S-1.5-10	1114	S-12A	1143	S105A	1141
RT5213	1123	RT7850	1104	RVD2DP221B	1171	S082A	1124	S-2	1104	S13	1104	S106	1104
RT5214	1123	RT7851	1123	RVD2DP221P	1104	S088	2007	S2A[illegible]	1104	S13A	1144	S107	1104
RT5217	1102	RT7943	2009	RVD2P22/1B	1104	S-0501	1104	S2A10	1104	S14	1104	S108	1104
RT5305	1104	RT7945	2030	RVD4B265J2	1104	S0501	1104	S2A20	1143	S14A	1144	S115	1104
RT5401	2030	RT7946	1102	RVD8MB4	1171	S0702	562	S2A30	1144	S15	1104	S124AHB	2041
RT5402	2030	RT8047	2016	RVD8MBA	1104	S0704	2009	S2A40	1144	S-15-10	1104	S129	1104
RT5403	2030	RT8193	2009	RVD10D1	1104	S017446	2023	S2AO6	1141	S15A	1104	S130-138	2016
RT5404	2030	RT8195	2009	RVD10DC1	1104	S019843	2023	S2AR1	1104	S16	1104	S130-251	2016
RT5435	2016	RT8197	2009	RVD10DC1R	1104	S022010	2009	S2AR2	1104	S16A	1104	S133-1	2009
RT5464	2010	RT8198	2009	RVD10E1	1104	S022011	2009	S2C30	1104	S16B	1104	S160	1102
RT5465	2010	RT8201	2009	RVD10E1LF	1104	S022012	2023	S2C40	1104	S-17	1104	S169N	2009
RT5466	2007	RT8231	1104	RVD10E11F	1104	S02373S	2023	S2C40A	1104	S17	1104	S180	1102
RT5467	2007	RT8330	2009	RVD12B-1	1171	S024428	2009	S2CN1	1143	S-17A	1104	S191G	1104
RT5468	2007	RT8332	2009	RVDC08P1	1104	S024987	2009	S2D153	2020	S17A	1104	S200	1104
RT5472	1104	RT8333	2058	RVDD124B	1171	S025232	2009	S2E20	1104	S18	1104	S201	1104
RT5520	2007	RT8335	2020	RVDD1245	1171	S025289	2009	S2E60	1104	S18A	1104	S202	1104
RT5521	2007	RT8336	2027	RVDDS-410	1104	S026094	2023	S2E60-1	1104	S18B	1104	S203	1104
RT5522	2007	RT8337	2016	RVDGP05A	1104	S	562	S2E100	1114	S19	1104	S204	1104
RT5551	2009	RT8338	2027	RVDKB162C5	1104	S1-1	1104	S2F10	1104	S19A	1104	S205	1104
RT5554	1102	RT8339	562	RVDKB265J2	1102	S1-B01-02	1104	S2F20	1104	S20	1114	S206	1104
RT5637	2007	RT8340	1104	RVDMZ209	562	S1-RECT-35	1102	S2GR2	1143	S20ND400	1104	S208	1114
RT5793	561	RT8442	2007	RVDO.8C2211A	1144	S1-RECT-102	1104	S2M1	1143	S20NH400	1104	S210	1114
RT5900	2010	RT8527	2009	RVDR154B	1171	S1A06	1104	S2M2	1141	S21	1104	S217	1104
RT5901	2009	RT8602	2007	RVDRD5A1E	565	S1A060	1104	S2PB	1171	S22	1104	S218	1104
RT5902	2010	RT8665	1114	RVDRD5R1EB	565	S1A	1104	S2PB10	1152	S22A	1104	S219	1104
RT5903	2010	RT8666	2016	RVDRD11AN	562	S1A3	561	S2PB40	1173	S23	1104	S220	1104
RT5904	2010	RT8668	2010	RVDS5277B	1104	S1A60	1104	S2Q20	1104	S23A	1104	S221	1104
RT5905	2016	RT8669	2010	RVDSD-1	1104	S1A80	1114	S2Q40	1104	S24	1114	S222	1104
RT5906	2030	RT8670	2023	RVDSD-1U	1104	S1A100	1114	S2Q60	1104	S26	1104	S223	1104
RT5907	2030	RT8671	1123	RVDSD-1Y	1104	S1AR1	1104	S2Q80	1114	S28	1114	S224	1104
RT5908	1123	RT8840	1104	RVDSD-1Z	1114	S1AR2	1104	S2Q100	1114	S30	1104	S229	1143
RT5909	1102	RT8841	1104	RVDSG-5N	1114	S1B01	1104	S2RB40	1173	S31	1104	S230	1104
RT5911	1104	RT8863	2016	RVDSG-5P	1114	S1B01-01	1104	S2TB	1173	S32	1104	S232	1104
RT5939	1123	RT8895	2023	RVDSR3AM2N	1104	S1B-01-02	1104	S2TB10	1152	S33	1104	S233	1104
RT6119	1123	RT61012	1123	RVDVD1250M	1102	S1B01-02	1104	S2TB40	1173	S35	1104	S234	1104
RT6157	2010	RT-61014	2007	RVS2SC64S	2010	S1B01-06	1104	S2V	1114	S36	1104	S235	1104
RT6158	2010	RT61014	2007	RVTCS1381	2009	S1B01-0226	1104	S2VB	1104	S40	1104	S236	1143
RT6159	2010	RT61015	2007	RVTCS1382	2023	S1B02	1104	S2VC	1104	S40A	1104	S238	1104
RT6160	2010	RT61016	2007	RVTCS1383	2009	S1B02-0	1104	S2VC10	1114	S43	1104	S239	1104
RT6179	1123	RT69221	2009	RVTCS1384	2010	S1B02-03C	1114	S2VC10R	1114	S44	1104	S240	1104
RT6180	1123	RTJ0201	1067	RVTCS1473	2016	S1B02-06CE	1104	S2Z20	1143	S46	1104	S241	1104
RT6181	1123	RTJ0203	1067	RVTMC00921-3	1101	S1B02-06CRE	1104	S2Z40	1144	S47	1104	S243	1104
RT6182	1123	RTJ0206	1067	RVTS22410	2009	S1B02-C	1104	S3A06	1104	S48	1104	S250	1104
RT6183	1123	RTJ0210	1067	RVTS22411	2023	S1B02-CR	1104	S3A1	1143	S49	1104	S251	1104
RT6184	1123	RTJ0215	1020	RX090	562	S1B02-O	1104	S3A2	1143	S-55TB	2007	S252	1104
RT6189	1123	RTJ0220	1067	RYN12104	2030	S1B0101CR	1104	S3A3	1144	S61	1114	S253	1104
RT6201	2058	RU1	1104	RYN121105	2009	S1B0102	1104	S3A4	1144	S62	1114	S254	1104
RT6202	2058	RU1A	1104	RYN121105-3	2009	S1B0201B	1171	S3AR1	1104	S63	1114	S255	1104
RT6203	2010	RU1B	1114	RYN121105-4	2009	S1B0201CR	1104	S3BA05	1141	S65-1-A-3P	2007	S256	1104
RT6204	2059	RU1C	1114	RZ-3	1114	S1B-0306	1114	S3CN1	1144	S65A-1-3P	2007	S257	1114
RT6205	2007	RU1Z	1104	RZ5.1	565	S1B	1104	S3G4	1114	S65B-1-3P	2007	S258	1114
RT6322	1104	RU2	1104	RZ6.2	561	S1B1	1104	S3G10	1143	S66-1-A-3P	2007	S260	1114
RT6332	1104	RU2AM	1104	RZ9.1	562	S1BD1-02	1104	S3G20	1143	S66-2-A-3P	2007	S-262	1104
RT6600	2010	RU-2M	1104	RZ12	563	S1C	1114	S3G40	1144	S66-3-A-3P	2007	S262	1104
RT6600MHF25	2009	RUD2DP22/1B	1104	RZ15	564	S1CN1	1104	S3G40Z	1144	S-70T	2007	S-305	2041
RT6601	2010	RV06	1104	RZ15A	564	S1D	1114	S3GR2	1144	S70T	2007	S305	2041
RT6602	2010	RV06/7825B	1104	RZ-15AB	564	S1D50B851-A	1102	S3M1	1143	S70.00.730	2007	S-305-PD	2041
RT6604	2007	RV1	1104	RZZ5.1	565	S1D51C052-19	1104	S-3MX	1104	S70.01.704	2009	S-305A	2041
RT6605	1104	RV2	1104	RZZ6.2	561	S1D51C169-1	1104	S3MX	1104	S72	1104	S305A	2041
RT6619	1123	RV1017	1102	RZZ9.1	562	S1D153	2020	S3V20	1114	S73	1104	S305D	2041
RT6729	1104	RV1059	2023	RZZ12	563	S1G10	1104	S4A06	1104	S74-3-A-3P	2007	S-310E	2020
RT6732	2010	RV1068	2058	RZZ156	564	S1G20	1104	S4AO6	1104	S75	1104	S353	2041
RT6733	20[illegible]	RV1180	2007	S0302	2059	S1G40	1104	S4AR1	1104	S77	1104	S-356	2041
RT6734	2007	RV1189	1104	S0015	2009	S1G40Z	1104	S4AR2	1104	S79	1104	S356	2041
RT6735	2007	RV1226	1102	S0016	2010	S1G60Z	1104	S4AR30	1104	S-80T	2007	S-371	2007
RT6736	2007	RV1395	2059	S0020	2010	S1GR2	1143	S4C	1104	S81	1104	S380	706
RT6737	2058	RV1424	1104	S0021	2010	S1L200	1104	S4CN1	1143	S82	1104	S409F	2030
RT6787	2058	RV1467	2010	S0022	2009	S1M	1141	S4FN300	1104	S83	1104	S428	1104
RT6791	1104	RV1468	2010	S0023	2016	S1M1	1141	S4GR2	1143	S84	1104	S431	1104
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RT6921MHF2S	2009	RV1470	2010	S0025	2009	S1QB10	1152	S4VB40	1173	S86	1104	S-500B	1104
RT-6922	565	RV1471	2009	S0026	2023	S1QB40	1173	S5AR1	1104	S-87TB	2007	S500B	1144
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RT6909	2009	RV1475	2007	S001683	2030	S1R13B	563	S5M1	1144	S88C-1-3P	2007	S502	1102
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RT7515	2009	RV2351	2023	S-05-005	1104	S1S20	1123	S8BR2	1114	S93H	1104	S750C	1114
RT7517	2009	RV2353	2023	S-05-01	1104	S1SD-1	1104	S8P-2-A-3P	2007	S93SE133	2041	S-79[illegible]	1104
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RT7528	2009	RV2355	2023	S-05-04	1104	S1SD-1X	1104	S9BR2	1114	S93.24.401	1123	S-810	1104
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SA144R	2007	SA152X	2007	SA161Y	2007	SA170B	2007	SA181D	2007	SA203B	2007	SA212L	2007
SA144T	2007	SA152Y	2007	SA162A	2007	SA170C	2007	SA181E	2007	SA203C	2007	SA212M	2007
SA144X	2007	SA153A	2007	SA162B	2007	SA170D	2007	SA181F	2007	SA203D	2007	SA212R	2007
SA144Y	2007	SA153B	2007	SA162C	2007	SA170E	2007	SA181G	2007	SA203E	2007	SA212T	2007
SA145A	2007	SA153C	2007	SA162D	2007	SA170F	2007	SA181L	2007	SA203F	2007	SA212X	2007
SA145B	2007	SA153D	2007	SA162E	2007	SA170G	2007	SA181M	2007	SA203G	2007	SA212Y	2007
SA145C	2007	SA153E	2007	SA162F	2007	SA170L	2007	SA181R	2007	SA203L	2007	SA213A	2007
SA145D	2007	SA153F	2007	SA162G	2007	SA170M	2007	SA181T	2007	SA203M	2007	SA213B	2007

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
SA213C	2007	SA221E	2007	SA233G	2007	SA246L	2007	SA254R	2007	SA262X	2007	SA271A	2007
SA213D	2007	SA221F	2007	SA233L	2007	SA246M	2007	SA254T	2007	SA262Y	2007	SA271B	2007
SA213E	2007	SA221G	2007	SA233M	2007	SA246R	2007	SA254X	2007	SA263A	2007	SA271C	2007
SA213F	2007	SA221L	2007	SA233R	2007	SA246T	2007	SA254Y	2007	SA263B	2007	SA271D	2007
SA213G	2007	SA221M	2007	SA233T	2007	SA246X	2007	SA255A	2007	SA263C	2007	SA271E	2007
SA213L	2007	SA221R	2007	SA233X	2007	SA246Y	2007	SA255B	2007	SA263D	2007	SA271F	2007
SA213M	2007	SA221T	2007	SA233Y	2007	SA247A	2007	SA255C	2007	SA263E	2007	SA271G	2007
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SA213T	2007	SA221Y	2007	SA234B	2007	SA247C	2007	SA255E	2007	SA263G	2007	SA271M	2007
SA213X	2007	SA222A	2007	SA234C	2007	SA247D	2007	SA255F	2007	SA263L	2007	SA271R	2007
SA213Y	2007	SA222B	2007	SA234D	2007	SA247E	2007	SA255G	2007	SA263M	2007	SA271T	2007
SA214A	2007	SA222C	2007	SA234E	2007	SA247F	2007	SA255L	2007	SA263R	2007	SA271X	2007
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SA214D	2007	SA222F	2007	SA234L	2007	SA247M	2007	SA255T	2007	SA263Y	2007	SA272B	2007
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SA214F	2007	SA222L	2007	SA234R	2007	SA247T	2007	SA255Y	2007	SA264B	2007	SA272D	2007
SA214G	2007	SA222M	2007	SA234T	2007	SA247X	2007	SA256A	2007	SA264C	2007	SA272E	2007
SA214L	2007	SA222R	2007	SA234X	2007	SA247Y	2007	SA256B	2007	SA264D	2007	SA272F	2007
SA214M	2007	SA222T	2007	SA234Y	2007	SA248A	2007	SA256C	2007	SA264E	2007	SA272G	2007
SA214R	2007	SA222X	2007	SA235A	2007	SA248B	2007	SA256D	2007	SA264F	2007	SA272L	2007
SA214T	2007	SA222Y	2007	SA235B	2007	SA248C	2007	SA256E	2007	SA264G	2007	SA272M	2007
SA214X	2007	SA223A	2007	SA235C	2007	SA248D	2007	SA256F	2007	SA264L	2007	SA272R	2007
SA214Y	2007	SA223B	2007	SA235D	2007	SA248E	2007	SA256G	2007	SA264M	2007	SA272T	2007
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SA215B	2007	SA223D	2007	SA235F	2007	SA248G	2007	SA256M	2007	SA264T	2007	SA272Y	2007
SA215C	2007	SA223E	2007	SA235G	2007	SA248L	2007	SA256R	2007	SA264X	2007	SA273A	2007
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SA215G	2007	SA223M	2007	SA235T	2007	SA248X	2007	SA257A	2007	SA265C	2007	SA273E	2007
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SA215R	2007	SA223X	2007	SA236A	2007	SA249B	2007	SA257D	2007	SA265F	2007	SA273L	2007
SA215T	2007	SA223Y	2007	SA236B	2007	SA249C	2007	SA257E	2007	SA265G	2007	SA273M	2007
SA215X	2007	SA224A	2007	SA236C	2007	SA249D	2007	SA257F	2007	SA265L	2007	SA273R	2007
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SA217A	2007	SA225C	2007	SA237E	2007	SA250F	2007	SA258L	2007	SA266R	2007	SA274X	2007
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
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SA285L	2007	SA293R	2007	SA308B	2007	SA326E	2007	SA338G	2007	SA351M	2007	SA360T	2007
SA285M	2007	SA293T	2007	SA308C	2007	SA326F	2007	SA338L	2007	SA351R	2007	SA360X	2007
SA285R	2007	SA293X	2007	SA308D	2007	SA326G	2007	SA338M	2007	SA351T	2007	SA360Y	2007
SA285T	2007	SA293Y	2007	SA308E	2007	SA326L	2007	SA338R	2007	SA351X	2007	SA361A	2007
SA285X	2007	SA294A	2007	SA308F	2007	SA326M	2007	SA338T	2007	SA351Y	2007	SA361B	2007
SA285Y	2007	SA294B	2007	SA308G	2007	SA326R	2007	SA338X	2007	SA352A	2007	SA361C	2007
SA286A	2007	SA294C	2007	SA308R	2007	SA326T	2007	SA338Y	2007	SA352B	2007	SA361D	2007
SA286B	2007	SA294D	2007	SA308T	2007	SA326X	2007	SA339A	2007	SA352C	2007	SA361E	2007
SA286C	2007	SA294E	2007	SA308X	2007	SA326Y	2007	SA339B	2007	SA352D	2007	SA361F	2007
SA286D	2007	SA294F	2007	SA308Y	2007	SA329A	2007	SA339C	2007	SA352E	2007	SA361G	2007
SA286E	2007	SA294G	2007	SA309A	2007	SA329B	2007	SA339D	2007	SA352F	2007	SA361L	2007
SA286F	2007	SA294L	2007	SA309B	2007	SA329C	2007	SA339E	2007	SA352G	2007	SA361M	2007
SA286G	2007	SA294M	2007	SA309C	2007	SA329D	2007	SA339F	2007	SA352L	2007	SA361R	2007
SA286L	2007	SA294R	2007	SA309D	2007	SA329E	2007	SA339G	2007	SA352M	2007	SA361T	2007
SA286M	2007	SA294T	2007	SA309E	2007	SA329F	2007	SA339L	2007	SA352R	2007	SA361X	2007
SA286R	2007	SA294X	2007	SA309F	2007	SA329G	2007	SA339M	2007	SA352T	2007	SA361Y	2007
SA286T	2007	SA294Y	2007	SA309G	2007	SA329L	2007	SA339R	2007	SA352X	2007	SA364A	2007
SA286X	2007	SA295A	2007	SA309L	2007	SA329M	2007	SA339T	2007	SA352Y	2007	SA364B	2007
SA286Y	2007	SA295B	2007	SA309M	2007	SA329R	2007	SA339X	2007	SA353A	2007	SA364C	2007
SA287A	2007	SA295C	2007	SA309R	2007	SA329T	2007	SA339Y	2007	SA353B	2007	SA364D	2007
SA287B	2007	SA295D	2007	SA309T	2007	SA329X	2007	SA341A	2007	SA353C	2007	SA364E	2007
SA287C	2007	SA295E	2007	SA309X	2007	SA329Y	2007	SA341B	2007	SA353D	2007	SA364F	2007
SA287D	2007	SA295F	2007	SA309Y	2007	SA330A	2007	SA341C	2007	SA353E	2007	SA364G	2007
SA287E	2007	SA295G	2007	SA310	2023	SA330B	2007	SA341D	2007	SA353F	2007	SA364L	2007
SA287F	2007	SA295L	2007	SA310A	2023	SA330C	2007	SA341E	2007	SA353G	2007	SA364M	2007
SA287G	2007	SA295M	2007	SA311	2023	SA330D	2007	SA341F	2007	SA353L	2007	SA364R	2007
SA287L	2007	SA295R	2007	SA311A	2023	SA330E	2007	SA341G	2007	SA353M	2007	SA364T	2007
SA287M	2007	SA295T	2007	SA312	2023	SA330F	2007	SA341L	2007	SA353R	2007	SA364X	2007
SA287R	2007	SA295X	2007	SA312A	2023	SA330G	2007	SA341M	2007	SA353T	2007	SA364Y	2007
SA287T	2007	SA295Y	2007	SA313	2023	SA330L	2007	SA341R	2007	SA353X	2007	SA365A	2007
SA287X	2007	SA296A	2007	SA313A	2023	SA330M	2007	SA341T	2007	SA353Y	2007	SA365B	2007
SA287Y	2007	SA296B	2007	SA314	2023	SA330R	2007	SA341X	2007	SA355A	2007	SA365C	2007
SA288A	2007	SA296C	2007	SA314A	2023	SA330T	2007	SA341Y	2007	SA355B	2007	SA365D	2007
SA288B	2007	SA296D	2007	SA315	2023	SA330X	2007	SA342A	2007	SA355C	2007	SA365E	2007
SA288C	2007	SA296E	2007	SA315A	2023	SA330Y	2007	SA342B	2007	SA355D	2007	SA365F	2007
SA288D	2007	SA296F	2007	SA316	2023	SA331A	2007	SA342C	2007	SA355E	2007	SA365G	2007

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
SA365L	2007	SA379R	2007	SA393X	2007	SA407A	2007	SA433B	2007	SA447D	2007	SA467F	2023
SA365M	2007	SA379T	2007	SA393Y	2007	SA407B	2007	SA433C	2007	SA447E	2007	SA467L	2023
SA365R	2007	SA379X	2007	SA394A	2007	SA407C	2007	SA433D	2007	SA447F	2007	SA467M	2023
SA365T	2007	SA379Y	2007	SA394B	2007	SA407D	2007	SA433E	2007	SA447G	2007	SA467R	2023
SA365X	2007	SA380A	2007	SA394C	2007	SA407E	2007	SA433F	2007	SA447L	2007	SA468A	2007
SA365Y	2007	SA380B	2007	SA394D	2007	SA407F	2007	SA433G	2007	SA447M	2007	SA468B	2007
SA366A	2007	SA380C	2007	SA394E	2007	SA407G	2007	SA433L	2007	SA447R	2007	SA468C	2007
SA366B	2007	SA380D	2007	SA394F	2007	SA407L	2007	SA433M	2007	SA447T	2007	SA468D	2007
SA366C	2007	SA380E	2007	SA394G	2007	SA407M	2007	SA433R	2007	SA447X	2007	SA468E	2007
SA366D	2007	SA380F	2007	SA394L	2007	SA407R	2007	SA433T	2007	SA447Y	2007	SA468F	2007
SA366E	2007	SA380G	2007	SA394M	2007	SA407T	2007	SA433X	2007	SA453A	2007	SA468G	2007
SA366F	2007	SA380L	2007	SA394R	2007	SA407X	2007	SA433Y	2007	SA453B	2007	SA468L	2007
SA366G	2007	SA380M	2007	SA394T	2007	SA407Y	2007	SA434A	2007	SA453C	2007	SA468M	2007
SA366L	2007	SA380R	2007	SA394X	2007	SA410	2023	SA434B	2007	SA453D	2007	SA468R	2007
SA366M	2007	SA380T	2007	SA394Y	2007	SA410A	2023	SA434C	2007	SA453E	2007	SA468T	2007
SA366R	2007	SA380X	2007	SA395A	2007	SA411	2023	SA434D	2007	SA453F	2007	SA468X	2007
SA366T	2007	SA380Y	2007	SA395B	2007	SA411A	2023	SA434E	2007	SA453G	2007	SA468Y	2007
SA366X	2007	SA381A	2007	SA395C	2007	SA412	2023	SA434F	2007	SA453L	2007	SA469A	2007
SA366Y	2007	SA381B	2007	SA395D	2007	SA412A	2023	SA434G	2007	SA453M	2007	SA469B	2007
SA367A	2007	SA381C	2007	SA395E	2007	SA413	2023	SA434L	2007	SA453R	2007	SA469C	2007
SA367B	2007	SA381D	2007	SA395F	2007	SA413A	2023	SA434M	2007	SA453T	2007	SA469D	2007
SA367C	2007	SA381E	2007	SA395G	2007	SA414	2023	SA434R	2007	SA453X	2007	SA469E	2007
SA367D	2007	SA381F	2007	SA395L	2007	SA414A	2023	SA434T	2007	SA453Y	2007	SA469F	2007
SA367E	2007	SA381G	2007	SA395M	2007	SA415	2023	SA434X	2007	SA454A	2007	SA469G	2007
SA367F	2007	SA381L	2007	SA395R	2007	SA415A	2023	SA434Y	2007	SA454B	2007	SA469L	2007
SA367G	2007	SA381M	2007	SA395T	2007	SA416	2023	SA435A	2007	SA454C	2007	SA469M	2007
SA367L	2007	SA381R	2007	SA395X	2007	SA416A	2023	SA435B	2007	SA454D	2007	SA469R	2007
SA367M	2007	SA381T	2007	SA395Y	2007	SA420A	2007	SA435C	2007	SA454E	2007	SA469T	2007
SA367R	2007	SA381X	2007	SA398A	2007	SA420B	2007	SA435D	2007	SA454F	2007	SA469X	2007
SA367T	2007	SA381Y	2007	SA398B	2007	SA420C	2007	SA435E	2007	SA454G	2007	SA469Y	2007
SA367X	2007	SA382A	2007	SA398C	2007	SA420D	2007	SA435F	2007	SA454L	2007	SA470A	2007
SA367Y	2007	SA382B	2007	SA398D	2007	SA420E	2007	SA435G	2007	SA454M	2007	SA470B	2007
SA368A	2007	SA382C	2007	SA398E	2007	SA420F	2007	SA435L	2007	SA454R	2007	SA470C	2007
SA368B	2007	SA382D	2007	SA398F	2007	SA420G	2007	SA435M	2007	SA454T	2007	SA470D	2007
SA368C	2007	SA382E	2007	SA398G	2007	SA420L	2007	SA435R	2007	SA454X	2007	SA470E	2007
SA368D	2007	SA382F	2007	SA398L	2007	SA420M	2007	SA435T	2007	SA454Y	2007	SA470F	2007
SA368E	2007	SA382G	2007	SA398M	2007	SA420R	2007	SA435X	2007	SA455A	2007	SA470G	2007
SA368F	2007	SA382L	2007	SA398R	2007	SA420T	2007	SA435Y	2007	SA455B	2007	SA470L	2007
SA368G	2007	SA382M	2007	SA398T	2007	SA420X	2007	SA436A	2007	SA455C	2007	SA470M	2007
SA368L	2007	SA382R	2007	SA398X	2007	SA420Y	2007	SA436B	2007	SA455D	2007	SA470R	2007
SA368M	2007	SA382T	2007	SA398Y	2007	SA426A	2007	SA436C	2007	SA455E	2007	SA470T	2007
SA368R	2007	SA382X	2007	SA399A	2007	SA426B	2007	SA436D	2007	SA455F	2007	SA470X	2007
SA368T	2007	SA382Y	2007	SA399B	2007	SA426C	2007	SA436E	2007	SA455G	2007	SA470Y	2007
SA368X	2007	SA384A	2007	SA399C	2007	SA426D	2007	SA436F	2007	SA455L	2007	SA471A	2007
SA368Y	2007	SA384B	2007	SA399D	2007	SA426E	2007	SA436G	2007	SA455M	2007	SA471B	2007
SA369A	2007	SA384C	2007	SA399E	2007	SA426F	2007	SA436L	2007	SA455R	2007	SA471C	2007
SA369B	2007	SA384D	2007	SA399F	2007	SA426G	2007	SA436M	2007	SA455T	2007	SA471D	2007
SA369C	2007	SA384E	2007	SA399G	2007	SA426L	2007	SA436R	2007	SA455X	2007	SA471E	2007
SA369D	2007	SA384F	2007	SA399L	2007	SA426M	2007	SA436T	2007	SA455Y	2007	SA471F	2007
SA369E	2007	SA384G	2007	SA399M	2007	SA426R	2007	SA436X	2007	SA456A	2007	SA471G	2007
SA369F	2007	SA384L	2007	SA399R	2007	SA426T	2007	SA436Y	2007	SA456B	2007	SA471L	2007
SA369G	2007	SA384M	2007	SA399T	2007	SA426X	2007	SA437A	2007	SA456C	2007	SA471M	2007
SA369L	2007	SA384R	2007	SA399X	2007	SA426Y	2007	SA437B	2007	SA456D	2007	SA471R	2007
SA369M	2007	SA384T	2007	SA399Y	2007	SA427A	2007	SA437C	2007	SA456E	2007	SA471T	2007
SA369R	2007	SA384X	2007	SA400A	2007	SA427B	2007	SA437D	2007	SA456F	2007	SA471X	2007
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SA369X	2007	SA385A	2007	SA400C	2007	SA427D	2007	SA437F	2007	SA456L	2007	SA472A	2007
SA369Y	2007	SA385B	2007	SA400D	2007	SA427E	2007	SA437G	2007	SA456M	2007	SA472B	2007
SA376A	2007	SA385C	2007	SA400E	2007	SA427F	2007	SA437L	2007	SA456R	2007	SA472C	2007
SA376B	2007	SA385D	2007	SA400F	2007	SA427G	2007	SA437M	2007	SA456T	2007	SA472D	2007
SA376C	2007	SA385E	2007	SA400G	2007	SA427L	2007	SA437R	2007	SA456X	2007	SA472E	2007
SA376D	2007	SA385F	2007	SA400L	2007	SA427M	2007	SA437T	2007	SA456Y	2007	SA472F	2007
SA376E	2007	SA385G	2007	SA400M	2007	SA427R	2007	SA437X	2007	SA457A	2007	SA472G	2007
SA376F	2007	SA385L	2007	SA400R	2007	SA427T	2007	SA437Y	2007	SA457B	2007	SA472L	2007
SA376G	2007	SA385M	2007	SA400T	2007	SA427X	2007	SA438A	2007	SA457C	2007	SA472M	2007
SA376L	2007	SA385R	2007	SA400X	2007	SA427Y	2007	SA438B	2007	SA457D	2007	SA472R	2007
SA376M	2007	SA385T	2007	SA400Y	2007	SA428A	2007	SA438C	2007	SA457E	2007	SA472T	2007
SA376R	2007	SA385X	2007	SA403A	2007	SA428B	2007	SA438D	2007	SA457F	2007	SA472X	2007
SA376T	2007	SA385Y	2007	SA403B	2007	SA428C	2007	SA438E	2007	SA457G	2007	SA472Y	2007
SA376X	2007	SA391A	2007	SA403C	2007	SA428D	2007	SA438F	2007	SA457L	2007	SA474A	2007
SA376Y	2007	SA391B	2007	SA403D	2007	SA428E	2007	SA438G	2007	SA457M	2007	SA474B	2007
SA377A	2007	SA391C	2007	SA403E	2007	SA428F	2007	SA438L	2007	SA457R	2007	SA474C	2007
SA377B	2007	SA391D	2007	SA403F	2007	SA428G	2007	SA438M	2007	SA457T	2007	SA474D	2007
SA377C	2007	SA391E	2007	SA403G	2007	SA428L	2007	SA438R	2007	SA457X	2007	SA474E	2007
SA377D	2007	SA391F	2007	SA403L	2007	SA428M	2007	SA438T	2007	SA457Y	2007	SA474F	2007
SA377E	2007	SA391G	2007	SA403M	2007	SA428R	2007	SA438X	2007	SA465A	2023	SA474G	2007
SA377F	2007	SA391L	2007	SA403R	2007	SA428T	2007	SA438Y	2007	SA465B	2023	SA474L	2007
SA377G	2007	SA391M	2007	SA403T	2007	SA428X	2007	SA440A	2007	SA465C	2023	SA474M	2007
SA377L	2007	SA391R	2007	SA403X	2007	SA428Y	2007	SA440B	2007	SA465D	2023	SA474R	2007
SA377M	2007	SA391T	2007	SA403Y	2007	SA429A	2023	SA440C	2007	SA465E	2023	SA474T	2007
SA377R	2007	SA391X	2007	SA404A	2007	SA429B	2023	SA440D	2007	SA465F	2023	SA474X	2007
SA377T	2007	SA391Y	2007	SA404B	2007	SA429C	2023	SA440E	2007	SA465G	2023	SA474Y	2007
SA377X	2007	SA392A	2007	SA404C	2007	SA429D	2023	SA440F	2007	SA465L	2023	SA475A	2007
SA377Y	2007	SA392B	2007	SA404D	2007	SA429E	2023	SA440G	2007	SA465M	2023	SA475B	2007
SA370A	2007	SA392C	2007	SA404E	2007	SA429F	2023	SA440L	2007	SA465R	2023	SA475C	2007
SA378B	2007	SA392D	2007	SA404F	2007	SA429G	2023	SA440M	2007	SA465T	2023	SA475D	2007
SA378C	2007	SA392E	2007	SA404G	2007	SA429L	2023	SA440R	2007	SA465X	2023	SA475E	2007
SA378D	2007	SA392F	2007	SA404L	2007	SA429M	2023	SA440T	2007	SA465Y	2023	SA475F	2007
SA378E	2007	SA392G	2007	SA404M	2007	SA429R	2023	SA440X	2007	SA466A	2007	SA475G	2007
SA378F	2007	SA392L	2007	SA404R	2007	SA429T	2023	SA440Y	2007	SA466B	2007	SA475L	2007
SA378G	2007	SA392M	2007	SA404T	2007	SA429X	2023	SA446A	2007	SA466C	2007	SA475M	2007
SA378L	2007	SA392R	2007	SA404X	2007	SA429Y	2023	SA446B	2007	SA466D	2007	SA475R	2007
SA378M	2007	SA392T	2007	SA404Y	2007	SA432A	2007	SA446C	2007	SA466E	2007	SA475T	2007
SA378R	2007	SA392X	2007	SA406A	2007	SA432B	2007	SA446D	2007	SA466F	2007	SA475X	2007
SA378T	2007	SA392Y	2007	SA406B	2007	SA432C	2007	SA446E	2007	SA466G	2007	SA475Y	2007
SA378X	2007	SA393A	2007	SA406C	2007	SA432D	2007	SA446F	2007	SA466L	2007	SA476A	2007
SA378Y	2007	SA393B	2007	SA406D	2007	SA432E	2007	SA446G	2007	SA466M	2007	SA476B	2007
SA379A	2007	SA393C	2007	SA406E	2007	SA432F	2007	SA446L	2007	SA466R	2007	SA476C	2007
SA379B	2007	SA393D	2007	SA406F	2007	SA432G	2007	SA446M	2007	SA466T	2007	SA476D	2007
SA379C	2007	SA393E	2007	SA406G	2007	SA432L	2007	SA446R	2007	SA466X	2007	SA476E	2007
SA379D	2007	SA393F	2007	SA406L	2007	SA432M	2007	SA446T	2007	SA466Y	2007	SA476F	2007
SA379E	2007	SA393G	2007	SA406M	2007	SA432R	2007	SA446X	2007	SA467A	2023	SA476G	2007
SA379F	2007	SA393L	2007	SA406R	2007	SA432T	2007	SA446Y	2007	SA467B	2023	SA476L	2007
SA379G	2007	SA393M	2007	SA406T	2007	SA432X	2007	SA447A	2007	SA467C	2023	SA476M	2007
SA379L	2007	SA393R	2007	SA406X	2007	SA432Y	2007	SA447B	2007	SA467D	2023	SA476R	2007
SA379M	2007	SA393T	2007	SA406Y	2007	SA433A	2007	SA447C	2007	SA467E	2023	SA476T	2007

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
SA476X	2007	SA499A	2023	SA522C	2023	SA561D	2023	SA608E	2023	SA658M	2043	SA685X	2023
SA476Y	2007	SA499B	2023	SA522D	2023	SA561E	2023	SA608F	2023	SA658R	2043	SA685Y	2023
SA477A	2007	SA499C	2023	SA522E	2023	SA561F	2023	SA608G	2023	SA658T	2043	SA697A	2023
SA477B	2007	SA499D	2023	SA522F	2023	SA561G	2023	SA608L	2023	SA658X	2043	SA697B	2023
SA477C	2007	SA499E	2023	SA522G	2023	SA561L	2023	SA608M	2023	SA658Y	2043	SA697C	2023
SA477D	2007	SA499F	2023	SA522L	2023	SA561M	2023	SA608R	2023	SA659A	2023	SA697D	2023
SA477E	2007	SA499G	2023	SA522M	2023	SA561R	2023	SA608T	2023	SA659B	2023	SA697E	2023
SA477F	2007	SA499L	2023	SA522R	2023	SA561T	2023	SA608X	2023	SA659C	2023	SA697F	2023
SA477G	2007	SA499M	2023	SA522T	2023	SA561X	2023	SA608Y	2023	SA659D	2023	SA697G	2023
SA477L	2007	SA499R	2023	SA522X	2023	SA561Y	2023	SA609A	2023	SA659E	2023	SA697L	2023
SA477M	2007	SA499T	2023	SA522Y	2023	SA562A	2023	SA609B	2023	SA659F	2023	SA697M	2023
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SA478B	2007	SA500D	2023	SA525F	2023	SA562G	2023	SA609L	2023	SA659X	2023	SA707B	2023
SA478C	2007	SA500E	2023	SA525G	2023	SA562L	2023	SA609M	2023	SA659Y	2023	SA707C	2023
SA478D	2007	SA500F	2023	SA525L	2023	SA562M	2023	SA609R	2023	SA661A	2023	SA707D	2023
SA478E	2007	SA500G	2023	SA525M	2023	SA562R	2023	SA609T	2023	SA661B	2023	SA707E	2023
SA478F	2007	SA500L	2023	SA525R	2023	SA562T	2023	SA609X	2023	SA661C	2023	SA707F	2023
SA478G	2007	SA500M	2023	SA525T	2023	SA562X	2023	SA609Y	2023	SA661D	2023	SA707G	2023
SA478L	2007	SA500R	2023	SA525X	2023	SA562Y	2023	SA628A	2023	SA661E	2023	SA707L	2023
SA478M	2007	SA500T	2023	SA525Y	2023	SA564A	2023	SA628B	2023	SA661F	2023	SA707M	2023
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SA478T	2007	SA500Y	2023	SA530A	2023	SA564C	2023	SA628D	2023	SA661L	2023	SA707T	2023
SA478X	2007	SA507A	2007	SA530B	2023	SA564D	2023	SA628E	2023	SA661M	2023	SA707X	2023
SA478Y	2007	SA507B	2007	SA530C	2023	SA564E	2023	SA628F	2023	SA661R	2023	SA707Y	2023
SA479A	2007	SA507C	2007	SA530D	2023	SA564F	2023	SA628G	2023	SA661T	2023	SA720A	2023
SA479B	2007	SA507D	2007	SA530E	2023	SA564G	2023	SA628L	2023	SA661X	2023	SA720B	2023
SA479C	2007	SA507E	2007	SA530F	2023	SA564L	2023	SA628M	2023	SA661Y	2023	SA720C	2023
SA479D	2007	SA507F	2007	SA530G	2023	SA564M	2023	SA628R	2023	SA663A	2043	SA720D	2023
SA479E	2007	SA507G	2007	SA530L	2023	SA564R	2023	SA628T	2023	SA663B	2043	SA720E	2023
SA479F	2007	SA507L	2007	SA530M	2023	SA564T	2023	SA628X	2023	SA663C	2043	SA720F	2023
SA479G	2007	SA507M	2007	SA530R	2023	SA564X	2023	SA628Y	2023	SA663D	2043	SA720G	2023
SA479L	2007	SA507R	2007	SA530T	2023	SA564Y	2023	SA629A	2023	SA663E	2043	SA720L	2023
SA479M	2007	SA507T	2007	SA530X	2023	SA565	2007	SA629B	2023	SA663F	2043	SA720M	2023
SA479R	2007	SA507X	2007	SA530Y	2023	SA565A	2023	SA629C	2023	SA663G	2043	SA720R	2023
SA479T	2007	SA507Y	2007	SA539A	2023	SA565B	2023	SA629D	2023	SA663L	2043	SA720T	2023
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SA495Y	2023	SA522B	2023	SA561C	2023	SA608D	2023	SA658L	2043	SA685T	2023	SA821	561

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
SA821A	561	SB-309A	1104	SC159B	2023	SCI44191005	2030	SD-1N4148	1103	SD95A	1104	SDT3711	2027
SA823	561	SB309A	1171	SC174	2009	SCI444103053	2030	SD-1S1555	1102	SD96	1104	SDT3712	2027
SA823A	561	SB-309C	1104	SC174A	2009	SCL4001	2401	SD-1U	1104	SD96A	1104	SDT3713	2027
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SA825A	561	SB315	1104	SC256	2061	SCL4001BD	2401	SD1X	1104	SD98	1114	SDT3716	2027
SA827	561	SB332	1104	SC256A	2061	SCL4001BE	2401	SD1Y	1104	SD98A	1114	SDT3717	2027
SA827A	561	SB333	1104	SC257	2061	SCL4001BF	2401	SD-1Z	1104	SD98S	1114	SDT3720	2027
SA829	561	SB393	1104	SC257A	2061	SCL4001UBD	2401	SD1Z	1104	SD100	1102	SDT3721	2027
SA829A	561	SB821	561	SC257V1	2023	SCL4001UBE	2401	SD1ZHF	1104	SD-101	1104	SDT3722	2027
SA836A	2023	SB821A	561	SC257VI	2061	SCL4001UBF	2401	SD-2	1104	SD101	1144	SDT3725	2027
SA836B	2023	SB823	561	SC258	2061	SCL4001UBH	2401	SD2	1114	SD102	1104	SDT3726	2027
SA836C	2023	SB823A	561	SC258A	2061	SCL4011	2411	SD2A	1104	SD103	1104	SDT3727	2027
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SA836F	2023	SB827	561	SC258VI	2061	SCL4011BE	2411	SD4	1104	SD-109	2009	SDT3733	2027
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SA836R	2023	SB-1000	1114	SC305	1104	SCL4011UBD	2411	SD-5(PHILCO)	1102	SD-150	1123	SDT6001	2020
SA836T	2023	SB1000	1104	SC350	2009	SCL4011UBE	2411	SD-6	565	SD165	1102	SDT6011	2020
SA836X	2023	SB5122	2007	SC785	2009	SCL4011UBF	2411	SD6	1104	SD-201	1104	SDT6013	2020
SA836Y	2023	SBR-260	1104	SC786	2016	SCL4011UBH	2411	SD6(DUAL)	1143	SD201	1104	SDT6031	2020
SA841A	2023	SC05	1104	SC821	561	SCL4013	2413	SD-6AUF	1114	SD202	1104	SDT6103	2020
SA841B	2023	SC05E	1104	SC821A	561	SCL4013AC	2413	SD-7(PHILCO)	1102	SD282A	1124	SDT7511	2020
SA841C	2023	SC1	1104	SC823	561	SCL4013AD	2413	SD7(RECT)	1114	SD345	2020	SDT7512	2020
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SA841F	2023	SC-4	1104	SC825A	561	SCL4013AH	2413	SD-8(PHILCO)	562	SD461	1123	SDT9009	2020
SA841G	2023	SC4	1104	SC827	561	SCL4013BC	2413	SD10	1104	SD470	1104	SDT9201	2041
SA841L	2023	SC-6	1123	SC827A	561	SCL4013BD	2413	SD-12	1123	SD500	1102	SDT9205	2041
SA841M	2023	SC-7	1020	SC829	561	SCL4013BE	2413	SD12	1123	SD500C	1104	SDT9206	2041
SA841R	2023	SC-7(PHILCO)	1020	SC829A	561	SCL4013BF	2413	SD12(PHILCO)	1102	SD501	1104	SDT9210	2041
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SA842A	2023	SC10A	1114	SC1001	2009	SCL4017ABC	2417	SD-13	1104	SD632	562	SDT9303	2041
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SA842D	2023	SC12(DIODE)	1102	SC-1016	1103	SCL4017ABF	2417	SD-14	1123	SD800	1114	SDT9307	2041
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SA842G	2023	SC23-3	1104	SC1227F	2010	SCL4017AD	2417	SD15	1123	SD910A	1114	SD-Y	1104
SA842L	2023	SC23-9	1104	SC1227G	2010	SCL4017AE	2417	SD-16	1123	SD910S	1114	SE0001	2058
SA842M	2023	SC43	2007	SC1229E	2030	SCL4017AF	2417	SD16	1123	SD950	1104	SE002(1)	2019
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SA842X	2023	SC46	2007	SC1431	1104	SCL4017BD	2417	SD-18	1104	SD1102	1104	SE05	1104
SA842Y	2023	SC54	1123	SC1431(GE)	1102	SCL4017BE	2417	SD18	1104	SD1103	1104	SE-05-01	1104
SA853	2007	SC-63	2007	SC1631	1104	SCL4017BF	2417	SD-19	1171	SD1104	1104	SE-05-02	1104
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SA909C	2023	SC65	2009	SC4001UBC	2401	SCL4023AC	2423	SD23	1104	SD11441	2016	SE-05-C	1114
SA909D	2023	SC-66	2007	SC4010	2009	SCL4023AD	2423	SD-27	562	SDA345	2020	SE-05-D	1114
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SA909F	2023	SC-68	2007	SC4044	2009	SCL4023AF	2423	SD33	563	SDB345	2020	SE05A	1144
SA909G	2023	SC68	2007	SC4116	1104	SCL4023AH	2423	SD-34	1102	SDB445	2027	SE05B	1104
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SA909T	2023	SC71	2007	SC-4244	2009	SCL4023BF	2423	SD45	1104	SDD421	2009	SE05S	1104
SA909X	2023	SC-72	2007	SC4244	2030	SCL4023BH	2423	SD46	1123	SDD820	2010	SE05SS	1104
SA909Y	2023	SC72	2007	SC4303	2020	SCL4049	2449	SD-46-2	1123	SDD821	2009	SE-05X	1104
SA-93792	1102	SC-73	2007	SC4303-1	2020	SCO5	1104	SD46-2	1123	SDD1220	2030	SE-0566	2009
SA-93794	562	SC73	2007	SC4303-2	2020	SCO5E	1104	SD-51	1124	SDD3000	2009	SE05-01	1106
SAB1044	2016	SC-74	2007	SC4308	2020	SCP5E	1104	SD51	1124	SD-ERB24-04D	1104	SE-0.5A	1144
SAB3469	2016	SC74	2007	SC9430P	1757	SCR15	1067	SD53	563	SDH-2	1123	SE-0.5B	1104
SAC-1843	2010	SC-78	2007	SC9436P	1759	SCR104(ELCOM)	1067	SD54	1123	SDH-2HC	1124	SE-1.5A	1114
SAE-1	2041	SC78	2007	SCA05	1104	SCR108	1067	SD-56	1123	SDI345	2020	SE-2	1104
SAE-2	2043	SC-79	2007	SCA1	1104	SCR108(ELCOM)	1067	SD56	1123	SDI445	2027	SE-5	1104
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SAW-2SB56	2007	SC91	562	SCA5	1104	SCR404(ELCOM)	1020	SD-61P	1104	SDK445	2027	SE5-0249	2016
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SB-03	1104	SC108C	2009	SCA3236	2016	SD05	1104	SD91	1141	SDO345	2020	SE5-0452	2030
SB-04	1173	SC109	2009	SCA3237	2016	SD07	1104	SD-91A	1104	SDP345	2020	SE5-0456	1103
SB0319	2020	SC109A	2009	SCA3238	2016	SD040	1104	SD91A	1143	SDR25	1104	SE5-0565	2016
SB1-01-04	1104	SC109B	2009	SCA3239	2016	SD1	1104	SD-91S	1104	SDS-113	1104	SE5-0567	2009
SB-1Z	1104	SC-110	1104	SCA3240	2016	SD1-1	1104	SD91S	1143	SDS113	1104	SE5-0569	2016
SB1Z	1141	SC110	1104	SCA3243	2016	SD-1-211B	1104	SD-92	1104	SDS240	2016	SE5-0608	2009
SB-2(CENTERING)	1101	SC136D	1000	SCA3244	2016	SD1-211B	1104	SD92	1143	SDS420	2016	SE5-0745	2061
SB-2(CENTERING-58	1101	SC147	2009	SCA3246	2016	SD-1-211C	1104	SD-92A	1104	SDT425	2055	SE5-0798	2023
SB2CH	1114	SC147A	2016	SCBR05F	1114	SD1-211C	1104	SD92A	1143	SDT-445	2027	SE-5-0819	2007
SB-3	1104	SC147B	2016	SCBR1F	1114	SD1-Z	1104	SD-92S	1104	SDT445	2027	SE5-0831	2023
SB-3-02	1104	SC148	2016	SCBR6	1114	SD1A	1104	SD92S	1143	SDT1006	2055	SE5-0848	2009
SB-3F01	1104	SC148A	2016	SCBR6F	1114	SD-1AHF	1101	SD-93	1104	SDT1007	2055	SE5-0854	2009
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SB-3N	1104	SC148C	2016	SCBR35F	1114	SD-1B	1104	SD-93A	1104	SDT1017	2055	SE5-0887	2009
SB5	2041	SC149	2016	SCD-T334	2027	SD1C	1114	SD93A	1144	SDT3509	2027	SE5-0888	2009
SB6	2041	SC149B	2016	SCD-T320	2041	SD-1C-4F	1104	SD93S	1104	SDT3510	2027	SE5-0909	2023
SB7	2041	SC157	2061	SCD-T322	2009	SD-1C-UF	1104	SD-94	1104	SDT3513	2027	SE5-0933	1759
SB-100	2007	SC157A	2061	SCDT323	2009	SD-1CUF	1104	SD94	1144	SDT3514	2027	SE5-0938	2016
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SB102	2007	SC158	2061	SCE1	1104	SD-1HF	1104	SD-94AB	1104	SDT3703	2027	SE5-0938-56	2016
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SB168	2007	SC158B	2023	SCE3	1104	SD-1L	1104	SD94B	1104	SDT3706	2027	SE5-0949	2023
SB169	2007	SC158V1	2023	SCE4	1104	SD1L	1104	SD94S	1104	SDT3707	2027	SE5-0958	2030
SB200	2007	SC158VI	2061	SCE6	1104	SD-1LA	1104	SD-95	1104	SDT3708	2027	SE5-0963	2020
SB302	1104	SC159	2061	SCE8	1114	SD1LA	1104	SD95	1104	SDT3709	2027	SE5-0964	2027
		SC159A	2061	SCE10	1114	SD-1N60S	1123	SD-95A	1104	SDT3710	2027	SE5-0966	1102

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SK3552/941M	007	SKA1080	2009	SLA23B	1143	SM50	1104	SM3986	2009	SN-76666N	1759	SP3091	1123
SK3564	1723	SKA1117	2009	SLA23C	1143	SM51	1104	SM-4304-S	2016	SN76666N	1759	SP3096(ZENER)	564
SK3564/955M	1723	SKA1279	2023	SLA24A	1144	SM60	1104	SM4304-S	2058	SN76666N-S	1759	SP3105	1171
SK3569	1712	SKA1395	2009	SLA24B	1144	SM70	1114	SM-4508-B	2009	SN766008	1758	SP3106	1173
SK3569/834	1712	SKA1416	2010	SLA24C	1144	SM71	1114	SM4500-B	2009	SNO303	1104	SP3114	2023
SK3583	1001	SKA-4061	2023	SLA25A	1144	SM73	1114	SM4547	2023	SNT204	2023	SP3117	2010
SK3583/5641	1001	SKA4074	2010	SLA25B	1144	SM73(DIODE)	1114	SM4574A	2023	SNT204A	2023	SP3120	1101
SK3591	1770	SKA-4075	2010	SLA25C	1144	SM80	1114	SM4719	2023	SNW-Q-1	2007	SP3121	1101
SK3591/960	1770	SKA4075	2010	SLA440	1104	SM81	1114	SM5379	2009	SNW-Q-4	2007	SP3122	2009
SK3592	1771	SKA-4076	2058	SLA440B	1104	SM83	1114	SM-5564	2009	SNW-Q-6	2007	SP3502	1067
SK3592/966	1771	SKA4076	2010	SLA441	1104	SM100	1114	SM5564	2009	SO-1	2007	SP3510	2041
SK3593	1772	SKA4129	2023	SLA441B	1104	SM101	1114	SM-5643	2009	SO1	2007	SP3512	2030
SK3593/968	1772	SKA4141	2009	SLA442	1104	SM103	1114	SM5643	2009	SO-2	2007	SP4168	2010
SK3595	1720	SKA4525	2010	SLA442B	1104	SM105	1104	SM5796	2010	SO2	2007	SP4231	2041
SK3595/989	1720	SKA-4590	2058	SLA443	1104	SM110	1104	SM5981	2009	SO-3	2007	SP4436	2016
SK3597	1067	SKA4616	2030	SLA443B	1104	SM112	1104	SM6251	2030	SO3	2007	SP8416	2020
SK3597/5455	1067	SKA4768	2016	SLA444	1104	SM120	1104	SM6762	2009	S-O5	1104	SP8660	2020
SK3598	1020	SKA-4802	2016	SLA444A	1104	SM130	1104	SM6773	2009	SO5	1104	SPC40	2009
SK3598/5457	1020	SKA5248	2010	SLA444B	1104	SM140	1104	SM7545	2009	SO10G	1114	SPC42	2009
SK3627	1067	SKA-5541	2016	SLA-445	1104	SM-150	1114	SM-7815	2009	SO 25	2007	SPC50	2009
SK3627/5404	1067	SKA-5886	2010	SLA445	1104	SM150	1114	SM7815	2009	SO25	2007	SPC51	2009
SK3638	1067	SKA5886	2010	SLA445B	1104	SM-150-005	1114	SM-7836	2009	SO65	2007	SPC52	2009
SK3638/5402	1067	SKA6250	2023	SLA536	1104	SM150-01	1114	SM7836	2009	SO-65A	2007	SPC410	2055
SK3643	1711	SKA-6256	2009	SLA537	1104	SM-150-02	1114	SM7991	2030	SO65A	2007	SPC413	2055
SK3643/987	1711	SKA-6437	2009	SLA538	1104	SM150-02	1114	SM8112	2009	SO-88	2007	SPC423	2055
SK3648/168	1173	SKA-8105	2009	SLA539	1104	SM-150-(2 CENTERING)		SM8113	2009	SO88	2007	SPC424	2055
SK3664	1001	SKA9013	2010	SLA540	1104		1101	SM8341	2007	SO501	1104	SPC425	2055
SK3664/5602	1001	SKA9096	2010	SLA547	1104	SM-150-04	1104	SM8978	2009	SO-632	562	SPD-80062	2041
SK3665/5603	1001	SKB8339	2009	SLA560	1114	SM-150-06	1104	SM9000	2009	SO19[illegible]	2016	SPD-80123	2030
SK3666/5605	1000	SKWHG7006	2023	SLA561	1114	SM-150-08	1114	SM9135	2009	SO25094	2016	SPF530	2058
SK3671/961	1773	SL-030	1104	SLA599	1104	SM150-6	1114	SM9253	2009	SOA	1114	SPN01	1104
SK3683/5511	1067	SL030/3490	1104	SLA599A	1104	SM-150-10	1114	SM-A-595830-12	2010	SOD30AL	1141	SPS-0122	2030
SK3684/5512	1020	SL030S	1104	SLA600	1104	SM150-10	1114	SM-A-726655	2009	SOD30BL	1141	SPS0122	2030
SK3688/992	1713	SL-030T	1104	SLA600A	1104	SM-150-A	1104	SM-A-726658	2023	SOD30DL	1141	SPS4	2010
SK3689/978	1728	SL030T	1104	SLA601	1104	SM-150-B	1104	SM-A-726664	2009	SOD50AL	1141	SPS12	2023
SK3710	2055	SL030S,T	1104	SLA601A	1104	SM-150-C	1114	SMB447610	2007	SOD50BL	1141	SPS20	2010
SK3710/238	2055	SL-2	1104	SLA602	1104	SM-150-D	1114	SMB447610A	2007	SOD50CL	1141	SPS22	2023
SK3716	2016	SL2	1104	SLA602A	1104	SM150A	1114	SMB454549	2007	SOD50DL	1141	SPS40	2010
SK3716/161	2016	SL-3	1104	SLA603	1104	SM-150B	1114	SMB454760	2007	SOD100AL	1143	SPS-41	2009
SK3721	2007	SL-4	1104	SLA603A	1104	SM150B	1114	SM-B-523974	2023	SOD100BL	1143	SPS41	2009
SK3721/100	2007	SL-5	1143	SLA604	1104	SM150C	1114	SMB-541191	1102	SOD100CL	1143	SPS42	2023
SK3722	2007	SL5	1104	SLA604A	1104	SM150D	1114	SM-B-574495	2023	SOD100DS	1143	SPS42A	2023
SK3722/102	2007	SL91	1104	SLA605	1104	SM150S	1114	SM-B-610342	2009	SOD200AL	1143	SPS43-1	2010
SK3749	562	SL92	1104	SLA605A	1104	SM150SS	1114	SMB621960	2007	SOD200BL	1143	SPS47	2023
SK3749/5073A	562	SL93	1104	SLA606	1104	SM160	1104	SM-B-686767	2009	SOD200CL	1143	SPS49	2030
SK3751	564	SL-100	2010	SLA606A	1104	SM170	1114	SMB-706009D	2030	SOD-200D	1114	SPS220	2010
SK3751/5075A	564	SL100	2010	SLA1095	1104	SM180	1114	SMC7400N	1801	SOD200D	1104	SPS401K	2023
SK3776/5010A	565	SL-103	1143	SLA1096	1104	SM200	1114	SMC7408N	1822	SOD200DL	1143	SPS428	2010
SK3787	563	SL103	1104	SLA1100	1104	SM205	1104	SMC7490N	1000	SP-1	1104	SPS429	2010
SK3787/5021	563	SL119	2023	SLA1101	1104	SM210	1104	SM-C-583256	2009	SP1	1104	SPS477	2009
SK3787/5021A	563	SL300	2009	SLA1102	1104	SM-217	2007	SMC-583259	2030	SP1K-1	1104	SPS514	2023
SK3790	564	SL301C	2030	SLA1103	1144	SM217	2007	SMC-620774-1	2030	SP1K-2	1104	SPS514A	2023
SK3790/5024	564	SL301CE	2030	SLA1104	1104	SM220	1104	SM-C-706156	1103	SP1U-2	1104	SPS627	2009
SK3790/5024A	564	SL403	2059	SLA1105	1104	SM230	1104	SN0303	1104	SP-1.5A	1141	SPS668	2023
SK3852/1232	703	SL608	1114	SLA1487	1104	SM240	1104	SN-1	1104	SP2	2007	SPS699	2009
SK3854/123AP	2009	SL610	1114	SLA1488	1104	SM2491	2007	SN1	1104	SP2-01	1171	SPS816	2010
SK3862/103	2007	SL708	1114	SLA1489	1104	SM250	1104	SN-1Z	1104	SP2-04	1173	SPS817	2009
SK3893/152	2020	SL710	1114	SLA1490	1104	SM260	1104	SN74LS367N	1835	SP6GD1	1101	SPS817N	2009
SK3896/261	2058	SL-833	1104	SLA1491	1104	SM270	1114	SN166	2030	SP6GX1	1101	SPS856	2010
SK3911	2059	SL833	1104	SLA1492	1104	SM280	1114	SN167	2030	SP9	2007	SPS860	2010
SK3912	2023	SL-833A	1104	SLA1692	1104	SM300	1114	SN-400-319-P1	2023	SP10	2009	SPS868	2009
SK4001	2401	SL833A	1104	SLA1693	1104	SM483	1104	SN2222AP	2009	SP11	2010	SPS871	2007
SK4009	2449	SL3693	2010	SLA1694	1104	SM486	1104	SN4448	1103	SP14	2041	SPS906	2016
SK4011	2411	SL7990	2009	SLA1695	1104	SM487	1104	SN7400	1801	SP17	2009	SPS907	2009
SK4013	2413	SL14971	1822	SLA1696	1104	SM488	1104	SN7400A	1801	SP18	2030	SPS915	2010
SK4017	2417	SL16793	1801	SLA1697	1104	SM505	1104	SN7400J	1801	SP34AS	1123	SPS917	2010
SK4023	2423	SL16794	1801	SLA2610	1104	SM510	1104	SN7400N	1801	SP60	1123	SPS918	2009
SK4049	2449	SL16796	1802	SLA2611	1104	SM512	1104	SN7400N-10	1801	SP70	2023	SPS919	2016
SK4066	2466	SL16798	1822	SLA2612	1104	SM513	1104	SN7401J	1801	SP82	1124	SPS920	2058
SK5797	2023	SL17069	1822	SLA2613	1104	SM514	1104	SN7401N	1801	SP82A	1124	SPS-934	2009
SK5790	2023	SL21385	1740	SLA2614	1104	SM515	1104	SN7404N	1802	SP90	2023	SPS-952	2009
SK5801	2009	SL21654	1759	SLA2615	1104	SM516	1104	SN7404N-10	1802	SP101	1102	SPS952	2009
SK5915	2009	SL22310	1740	SLA2616	1114	SM517	1114	SN7408J	1822	SP295	1123	SPS-952-2	2009
SK6345	2023	SL22745	007	SLA2617	1114	SM518	1114	SN7408N	1822	SP3003	2007	SPS1045	2009
SK6346	2023	SL22935	1740	SLA3193	1104	SM520	1114	SN7408N-10	1822	SP3004	2007	SPS1082	2009
SK6347	2023	SL23059	007	SLA3194	1104	SM576-1	2009	SN7447AJ	1805	SP3005	2007	SPS1097	2023
SK6347A	2023	SL23147	1759	SLA3195	1104	SM576-2	2009	SN7447AN	1805	SP3006	2007	SPS1097A	2023
SK6601/5401	1001	SL23252	007	SLA3196	1114	SM645	1104	SN7447J	1805	SP3007	2007	SPS1351	2010
SK7181	2010	SL23325	1740	SLA5197	1141	SM646	1104	SN7447N-10	1805	SP3008	2007	SPS1352	2010
SK7400	1801	SL23496	007	SLA5198	1143	SM705	1104	SN7490AJ	1808	SP3016	1104	SPS1353	2010
SK7401	1801	SL53431	1801	SLA5199	1143	SM710	1104	SN7490AN	1808	SP3018	2010	SPS1436	2020
SK7404	1802	SLA01	1114	SLA5200	1144	SM-716	2009	SN7490N	1808	SP3019	2010	SPS1437	2027
SK7408	1822	SLA11AB	1104	SLAO1	1114	SM716	2009	SN7490N-10	1808	SP3020	2009	SPS1473	2010
SK7447	1805	SLA11C	1104	SLP-235B(GR)	037	SM720	1104	SN7666	1759	SP3024	2030	SPS-1473RT	2010
SK7490	1808	SLA12AB	1104	SLP-236B(GR)	022	SM730	1104	SN7666N	1759	SP3027	2041	SPS-1475	2009
SK7664	2023	SLA12C	1104	SLP-236B(YEL)	021	SM740	1104	SN52723N	1740	SP3030	1104	SPS1475	2009
SK8215	2009	SLA13AB	1104	SLP-236P(GR)	022	SM750	1104	SN72471P	007	SP3032	1114	SPS-1475(YT)	2009
SK8251	2009	SLA13C	1104	SM0843	2007	SM760	1104	SN72555JP	1723	SP3033	1114	SPS-1475YT	2009
SK8937	2016	SLA14AB	1104	SM07275	2009	SM770	1114	SN72555P	1723	SP3036	2043	SPS-1476	2016
SK9000/552	1104	SLA14C	1104	SM07286	2009	SM780	1114	SN72558	038	SP3038	2009	SPS1523	2023
SK9003/5000	1141	SLA15AB	1104	SM-1	1104	SM800	1114	SN72558P	038	SP3041	2020	SPS1523A	2023

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
SPS-1539	2023	SPS4020	2009	SPS4360	2009	SR1C-20	1114	SR-13H	1104	SR1731-4	1104	SSIC1245	1114
SPS-1539(WT)	2016	SPS4025	2023	SPS4361	2030	SR1D-1	1104	SR13H	1104	SR1731-5	1104	SSIC1280	1114
SPS-1539WT	2023	SPS4025A	2023	SPS4363	2009	SR1D1M	1104	SR-14	1104	SR1742	1104	SSIC1740	1114
SPS1593WT	2023	SPS4026	2023	SPS4365	2023	SR1D-2	1104	SR14	1101	SR1762	1143	SSIC1780	1114
SPS1802	2009	SPS4026A	2023	SPS4365A	2023	SR1D-4	1104	SR15	1101	SR1766	1104	SSIC1960A	1114
SPS1817	2009	SPS4027	2023	SPS4367	2009	SR1D-6	1104	SR-17	1104	SR-1849-1	1104	ST01	2009
SPS1846	2058	SPS4027A	2023	SPS4368	2009	SR1D-8	1104	SR17	1104	SR1984	1104	ST02	2009
SPS1977	2009	SPS4028	2023	SPS4382	2009	SR1DM	1104	SR-18	1104	SR2121	1104	ST03	2009
SPS2104	2009	SPS4028A	2023	SPS4390	2009	SR1DM-1	1104	SR-22	1104	SR2301	1104	ST04	2009
SPS2110	2010	SPS4029	2009	SPS4391	2030	SR1DM1	1104	SR22	1104	SR2301A	1104	ST05	2009
SPS2111	2010	SPS4030	2010	SPS4392	2009	SR1DM-2	1141	SR-23	1103	SR3010	1104	ST06	2009
SPS2129	2009	SPS4031	2023	SPS-4396	2009	SR1DM-4	1104	SR23	1104	SR3582	1104	ST07279	2007
SPS2130	2030	SPS4031A	2023	SPS4397	2023	SR1DM-6	1104	SR-24	1104	SR3943	1104	ST-2S4 Q	2030
SPS2134	2061	SPS4032	2009	SPS4399	2010	SR1DM-8	1104	SR24	1104	SR6134	1104	ST/123 CR	1103
SPS2135	2010	SPS4034	2009	SPS4423	2010	SR1DM-10	1104	SR-27	1104	SR6324	1104	ST/144 CR	1103
SPS2142	2009	SPS4037	2009	SPS4436	2058	SR1DMX	1104	SR27	1104	SR6325	1104	ST/217/Q	2009
SPS2164	2009	SPS4038	2030	SPS4443	2009	SR1E	1104	SR-28	1104	SR6385	1104	ST-2SA673C	2023
SPS2167	2010	SPS4039	2009	SPS4446	2009	SR1EM	1104	SR28	1104	SR6415	1104	ST-2SA844C	2023
SPS2194	2009	SPS4040	2009	SPS4450	2009	SR1EM-1	1104	SR-30	1104	SR6560	1104	ST-2SC383W	2016
SPS2216	2016	SPS4041	2009	SPS4451	2009	SR1EM1	1104	SR30	1104	SR6567	1104	ST-2SC1213D	2059
SPS2217	2016	SPS4042	2009	SPS4452	2023	SR1EM-2	1104	SR-34	1102	SR6617	1104	ST-2SC1723-O	2058
SPS2224	2010	SPS4043	2010	SPS4452A	2023	SR1EM2	1104	SR-35	1114	SR6723	1104	ST-2SD467B	2059
SPS2225	2009	SPS4044	2009	SPS4453	2009	SR1EM-4	1114	SR35	1104	SR6724	1104	ST2T003	2016
SPS-2265	2010	SPS4045	2009	SPS4455	2009	SR1EM-6	1104	SR-37	1101	SR9003	1104	ST9	2010
SPS2265	2010	SPS4049	2009	SPS4456	2009	SR1EM-8	1104	SR37	1101	SR9005	1104	ST10	2010
SPS2265-2	2010	SPS4050	2010	SPS4457	2009	SR1EM-10	1104	SR40	1104	SR-9007	1114	ST11	2010
SPS 2266	2010	SPS4051	2010	SPS4458	2023	SR1EM-12	1104	SR50	1104	SR20226	2058	ST-12	1104
SPS2266	2010	SPS4052	2009	SPS4458A	2023	SR1EM-16	1114	SR60	1104	SR20234	2009	ST12	2010
SPS2269	2023	SPS4053	2009	SPS4459	2009	SR1EM-20	1114	SR-76	1104	SR50411-1	1104	ST13	2010
SPS2270	2009	SPS4054	2023	SPS4460	2023	SR1EM-X	1104	SR76	1104	SR63197	2023	ST-14	1104
SPS2271	2016	SPS4054A	2023	SPS4460A	2023	SR1FM	1104	SR-100	1143	SR75044	2009	ST14	2010
SPS2272	2023	SPS4055	2009	SPS4461	2030	SR1FM-1	1104	SR100	1143	SRIDM	1104	ST15	2010
SPS2274	2023	SPS4056	2023	SPS4472	2009	SR1FM2	1104	SR-101-1	1104	SRIDM-1	1104	ST16	1104
SPS2279	2023	SPS4056A	2023	SPS4473	2023	SR1FM-4	1104	SR101-1	1104	SRIDM-4	1104	ST18	1114
SPS2320	2010	SPS4059	2009	SPS4473A	2023	SR1FM4	1104	SR-101-2	1104	SRIEM-1	1104	ST25A	2009
SPS2415	2009	SPS4060	2009	SPS4476	2009	SR1FM6	1104	SR101-2	1104	SRIEM-2	1104	ST25B	2009
SPS2425	2010	SPS4061	2009	SPS4478	2009	SR1FM-8	1104	SR105	1104	SRIEM-4	1104	ST25C	2009
SPS2664	2010	SPS4062	2009	SPS4480	2023	SR1FM8	1144	SR-112	1104	SR-IK-2	1104	ST28A	2007
SPS3003	2010	SPS4063	2009	SPS4480A	2023	SR1FM10	1104	SR112	1104	SRIK-2	1104	ST-28B	2007
SPS3015	2009	SPS4064	2023	SPS4489	2023	SR1FM-12	1114	SR-114	1143	SRIK-8	1104	ST28B	2007
SPS3329	2023	SPS4064A	2023	SPS4489A	2023	SR1FM12	1104	SR114	1104	SRK1	1104	ST-28C	2007
SPS3370	2010	SPS4066	2009	SPS4490	2030	SR1FM-16	1114	SR-120	1104	SRK-2	1104	ST28C	2007
SPS3724	2023	SPS4067	2009	SPS4491	2009	SR1FM16	1114	SR120	1104	SRLFM-1	1104	ST29	2010
SPS3724A	2023	SPS4068	2010	SPS4493	2009	SR1FM-20	1114	SR-120-1	1104	SS0001	2007	ST30	2010
SPS3735	2009	SPS4069	2009	SPS4494	2009	SR1FM20	1114	SR-130-1	1104	SS0001A	2007	ST31	2010
SPS3751	2009	SPS4072	2023	SPS4495	2030	SR1FMA	1104	SR130-1	2010	SS0001O	1104	ST32	2010
SPS3786	2023	SPS4072A	2023	SPS4498	2009	SR1K-0	1104	SR-131-1	1104	SS0002	2007	ST33	2010
SPS3786A	2023	SPS4073	2023	SPS4610	2010	SR1K08	1104	SR131-1	1104	SS0002A	2007	ST34	2010
SPS3787	2010	SPS4073A	2023	SPS4813	2023	SR-1K	1104	SR-132-1	1104	SS0003A	2007	ST35	2010
SPS3900	2009	SPS4074	2009	SPS4814	2016	SR1K	1104	SR132-1	1141	SS0004	2007	ST-37C	2007
SPS3907	2009	SPS-4075	2009	SPS4815	2023	SR1K/494	1104	SR135-1	1104	SS0004A	2007	ST37C	2007
SPS3908	2009	SPS4075	2009	SPS4920	2009	SR1K-1	1104	SR-136	1141	SS0005	2007	ST-37D	2007
SPS3909	2009	SPS4076	2023	SPS4942	2009	SR1K1	1104	SR136	1141	SS0005A	2007	ST37D	2007
SPS3912	2030	SPS4076A	2023	SPS5000	2009	SR1K-1K	1104	SR144	1104	SS0007	1123	ST37E	2007
SPS3914	2030	SPS 4077	2030	SPS5006	2009	SR-1K-2	1104	SR145	1104	SS0008	1123	ST40	2010
SPS3915	2009	SPS4077	2009	SPS5006-1	2009	SR-1K2	1104	SR150	1114	SS0009	1104	ST41	2010
SPS3923	2009	SPS4078	2023	SPS5006-2	2009	SR1K-2	1104	SR-150-01	1104	SS00010	1104	ST42	2010
SPS3924	2023	SPS4078A	2023	SPS5007	2023	SR1K2	1104	SR-150-1	1104	SS000I	2007	ST43	2010
SPS3924A	2023	SPS4079	2010	SPS5007-1	2023	SR1K-2/494	1104	SR151	1104	SS-1	1104	ST44	2010
SPS3925	2009	SPS4080	2010	SPS5007-1A	2023	SR-1K-2A	1114	SR152	1104	SS1-145128	2009	ST45	2010
SPS3926	2009	SPS4081	2009	SPS5007-2	2023	SR-1K-2B	1114	SR154	1114	SS-2N5062	1067	ST47	1114
SPS3927	2023	SPS4082	2023	SPS5007-2A	2023	SR-1K-2C	1114	SR200	1104	SS29A4	2023	ST50	2009
SPS3927A	2023	SPS4082A	2023	SPS5007A	2023	SR-1K 2D	1114	SR200B	1104	SS29A5	2023	ST51	2009
SPS3929	2010	SPS4083	2009	SPS5008	2023	SR1K-4	1104	SR205	1104	SS155	2007	ST53	2009
SPS3930	2009	SPS4084	2009	SPS5328	2007	SR1K-8	1104	SR210	1143	SS321	1104	ST54	2009
SPS3931	2023	SPS4085	2009	SPS5450	2061	SR1K8	1104	SR220	1143	SS322	1104	ST55	2009
SPS3931A	2023	SPS4086	2023	SPS5450S	2061	SR1K-12	1104	SR-390	1104	SS324	1104	ST56	2009
SPS3936	2009	SPS4086A	2023	SPS5457	2009	SR1K-16	1114	SR390	1104	SS334	1104	ST57	2009
SPS3937	2010	SPS4087	2023	SPS5458	2023	SR1K-20	1114	SR-401	1104	SS337	1104	ST58	2009
SPS3938	2009	SPS4087A	2023	SPS5569	2010	SR1K-Z	1104	SR401	1104	SS455	1104	ST59	2009
SPS3940	2009	SPS4088	2009	SPS5809	2030	SR1KZ	1104	SR405	1104	SS1606	2023	ST60	2010
SPS3948	2010	SPS4089	2009	SPS6109	2023	SR1T	1104	SR475	1141	SS1906	2023	ST61	2010
SPS3951	2009	SPS4090	2023	SPS6109A	2023	SR-1Z	1104	SR-499	1114	SS1906A	2023	ST62	2010
SPS3952	2010	SPS4090A	2023	SPS6111	2009	SR1Z	1104	SR499	1114	SS2308	2009	ST63	2009
SPS3957C	2009	SPS4091	2010	SPS6112	2009	SR-2	1114	SR500	1104	SS2503	2023	ST64	2009
SPS3967	2009	SPS4095	2009	SPS6113	2009	SR2A-1	1104	SR500B	1104	SS2503A	2023	ST70	2010
SPS3968	2010	SPS4143	2010	SPS6124	2030	SR2A1	1104	SR507	1143	SS2504	2009	ST71	2010
SPS3971	2010	SPS4145	2010	SPS6155	2010	SR2A-2	1104	SR605	1104	SS3694	2009	ST72	2010
SPS3972	2009	SPS4167	2010	SPS6571	2009	SR2A2	1104	SR806-126	1104	SS4001AE	2401	ST80	2010
SPS3973	2009	SPS4168	2010	SPS6682	2010	SR2A-4	1104	SR-846-2	1104	SS4011AE	2411	ST82	2010
SPS3987	2023	SPS4169	2009	SPS6953	2023	SR2A4	1104	SR846-2	1104	SS4013AE	2413	ST-103	2007
SPS3988	2023	SPS4199	2009	SPS7359	2009	SR2A-8	1114	SR846-3	1104	SS4023AE	2423	ST-122	2007
SPS3988A	2023	SPS4236	2009	SPS7652	2009	SR2A8	1104	SR851	1104	SS4042	2016	ST122	2007
SPS3990	2023	SPS4272	2016	SPT3713	2041	SR2A-12	1114	SR851-121	1104	SS6724	2023	ST-123	2007
SPS3990A	2023	SPS4300	2030	SQ46	1123	SR2A12	1104	SR [illegible]	1104	SS9328	2009	ST123	2007
SPS3999	2009	SPS4302	2023	SQD-2170	2009	SR2B12	1114	SR889	1104	SSA43	2023	ST-125	2007
SPS4000	2023	SPS4303	2009	SR-0005	1104	SR2B16	1114	SR1024	1104	SSA43A	2023	ST129-1	2023
SPS4002	2010	SPS4309	2030	SR-0007	1104	SR2B20	1114	SR1104	1104	SSA43A-1	2023	ST150	2009
SPS4003	2009	SPS4311	2030	SR-0008	1104	SR-3	1104	SR1266	1104	SSA46	2023	ST151	2009
SPS4004	2009	SPS4313	2009	SR05K-2	1104	SR3	1104	SR1378-1	1104	SSA46A	2023	ST152	2009
SPS4005	2010	SPS4314	2023	SR-1	1104	SR3AM	1114	SR1378-2	1144	SSA48	2023	ST153	2009
SPS4006	2009	SPS4314A	2023	SR1	2007	SR3AM1	1141	SR1378-3	1104	SSA48A	2023	ST154	2009
SPS4007	2023	SPS4330	2023	SR1-2	1104	SR3AM-2	1114	SR1422	1141	SSD974	1104	ST155	2009
SPS4007A	2023	SPS4331	2058	SR1-K2	1104	SR3AM2	1114	SR1493	1104	SSI1120	1144	ST156	2009
SPS4008	2010	SPS4338	2023	SR1A-1	1104	SR3AM-3	1143	SR1549	1104	SSIB0140	1114	ST157	2009
SPS4009	2009	SPS4343	2016	SR1A1	1104	SR3AM-4	1114	SR1598	1141	SSIB0180	1114	ST160	2009
SPS4013	2023	SPS4344	2009	SR1A-2	1104	SR3AM4	1114	SR1643A	1141	SSIB0640	1114	ST161	2009
SPS4013A	2023	SPS4345	2009	SR1A2	1104	SR3AM-6	1144	SR-1668	1104	SSIB0680	1114	ST162	2009
SPS4014	2023	SPS4347	2009	SR1A-4	1104	SR3AM6	1144	SR1668	1104	SSIC0810	1143	ST163	2009
SPS4014A	2023	SPS4348	2023	SR1A4	1104	SR3AM8	1144	SR1692	1104	SSIC0820	1144	ST175	2009
SPS4016	2010	SPS4349A	2023	SR1A-8	1104	SR3BM-6	1104	SR1693	1104	SSIC0840	1114	ST176	2009
SPS4017	2009	SPS4354	2023	SR1A8	1104	SR-4	1104	SR1694	1104	SSIC0880	1114	ST177	2009
SPS4018	2023	SPS4354A	2023	SR1A12	1104	SR4	1104	SR1695	1104	SSIC1110	1143	ST178	2009
SPS4018A	2023	SPS4355	2023	SR1B	1171	SR5	1104	SR1731-1	1104	SSIC1160	1114	ST180	2009
SPS4019	2023	SPS4356	2009	SR1C-12	1104	SR-10	1101	SR1731-2	1104	SSIC1210	1143	ST181	2009
SPS4019A	2023	SPS4359	2009	SR1C-16	1114	SR10	1101	SR1731-3	1104	SSIC1220	1144	ST182	2009

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ST-213	2030	ST62100	2023	SV-05	1104	SW4017	2417	SZ150	564	TIXM05	2007	T143	2009
ST213	2030	STB01-02	1102	SV05	1104	SW4023	2423	SZ200	565	TIX-M14	2016	T151	1102
ST250	2009	STB576	1102	SV-1R	1104	SW4049	2449	SZ200-5	565	TIX M15	2016	T152	1102
ST251	2009	STBOL-02	1104	SV-3	1102	SWC	1114	SZ-200-8	562	TIXM15	2010	T153	1102
ST-301	2007	ST-BU208	2055	SV-3B	1102	SWD	1114	SZ200-8	562	TIX-M16	2016	T154	1102
ST301	2007	STC-1035	2041	SV-3C	1102	SWO.5A	1104	SZ-200-9	562	TIXM17	2010	T155	1102
ST-302	2007	STC1035	2041	SV-4R	1104	SWT1728	2007	SZ-200-9V	562	T2A(TRANSISTOR)	2060	T156	1104
ST302	2007	STC-1035A	2041	SV-6R	1104	SWT2188	2007	SZ-200-12	563	T2G(DIODE)	1123	T157	2009
ST303	2007	STC1035A	2041	SV-8	1102	SWT3588	2007	SZ200-13	563	T2R	038	T158	2009
ST-304	2007	STC-1036	2041	SV-8R	1114	SX-1.5-01	1143	SZ-200-15	564	T3 2	1104	T159	1104
ST304	2007	STC1036	2041	SV-9	562	SX-1.5-02	1143	SZ-200-15A	564	T3B	007	T160	2007
ST-332	2007	STC-1036A	2041	SV-9(ZENER)	562	SX-1.5-04	1144	SZ671-B	563	T3G	1123	T-163	2007
ST332	2007	STC1036A	2041	SV14B	1103	SX55	2009	SZ671-G	563	T7	1123	T163	2007
ST-370	2007	STC1080	2041	SV14C	1103	SX61M	2023	SZ961-B	564	T8 2	1104	T170	2009
ST370	2007	STC1081	2041	SV30	1123	SX61MA	2023	SZA100	1114	T8G	1123	T171	2009
ST382	2007	STC1082	2041	SV-31	1123	SX408	2058	SZ-BZ-120	563	T9	1123	T185	2009
ST403	2009	STC1083	2041	SV-31(DIODE)	1123	SX623	1104	SZC9	562	T9G	1123	T-200	1104
ST415	2010	STC1084	2041	SV121	565	SX631	1104	SZ-EQB01-12A	563	T11	1123	T200	1104
ST501	2009	STC-1085	2041	SV122	565	SX633	1104	SZP-9	562	T12	1123	T-203	2010
ST502	2009	STC1300	2020	SV135	563	SX641	1104	SZ-RD6.2EB	561	T12-1	1102	T235A013-2	2009
ST503	2009	STC1850	2020	SV138	564	SX-642	1104	SZ-RD12EB	563	T12-2	1102	T237	2009
ST504	2009	STC1860	2020	SV-138A	564	SX642	1104	SZ-RD12FB	563	T12A	1102	T-246	2023
ST722	2030	STC4252	2041	SV1017	563	SX643	1104	SZT[illegible]	563	T12B	1102	T247	2030
ST723	2030	STC4253	2041	SV1020	564	SX644	1104	SZT-9	562	T12C	1102	T-251	2023
ST903	2010	STC4254	2041	SV-1020A	564	SX645	1104	SZT9	562	T12G	1123	T253	2007
ST904	2010	STC4255	2041	SV1238	1104	SX780	1102	SZ-UZ-12B	563	T-13	1104	T253(SEARS)	2007
ST904[illegible]	2010	STC5202	2027	SV-1238E	1104	SX-990	1123	SZ-WZ-120	563	T13	1123	T-255	2009
ST905	2010	STC5203	2027	SV1238E	1104	SX3001	2010	T0003	2007	T-13G	1104	T255	2009
ST910	2010	STC5205	2027	SV4012	563	SX3702	2023	T0004	2007	T13G	1123	T-256	2009
ST1026	2010	STC5206	2027	SV4012A	563	SX3702A	2023	T0005	2007	T-14	1104	T256	2009
ST1050	2010	STC5303	2027	SV4015	564	SX3709	2009	T 00014	2007	T14	1123	T276	2023
ST1051	2010	STC5802	2027	SV-4015A	564	SX3711	2009	T00014	2007	T-14G	1104	T277	2009
ST-1242	2009	STC5803	2027	SV4015A	564	SX-3825	2010	T0012	2007	T14G	1123	T-278	2007
ST1242	2009	STC5805	2027	SV-12388	1104	SX3825	2010	T0014	2007	T16	1102	T278	2007
ST-1243	2009	STC5806	2027	SV12388	1104	SX3826	2058	T0015	2007	T16X19	1123	T-279	2007
ST1243	2009	STE400	2010	SV12388E	1104	SX3827	2010	T0031	2007	T17	1123	T279	2007
ST-1244	2009	STFCN10	1104	SVC625	561	SY-23	1104	T0033	2007	T1[illegible]	1123	T280	2007
ST1244	2009	ST-HIT-9012H	2023	SVC650	561	SY-24	1104	T0038	2007	T20	1123	T280(SEARS)	2007
ST-1290	2009	STHIT9012H	2023	SVD02Z9.5A	562	SYL-105	2007	T0039	2007	T20G	1123	T281	2007
ST1290	2009	ST-HIT9013H	2009	SVD0279.5A	562	SYL105	2007	T0040	2007	T21	1123	T281(SEARS)	2007
ST1336	2010	STHIT9013H	2009	SVD0A70	1123	SYL-106	2007	T0041	2007	T21G	1123	T282	2007
ST1402D	2009	ST-HIT9014C	2009	SVD0A79	1123	SYL106	2007	T0051	2007	T22	1123	T282(SEARS)	2007
ST1402E	2009	STHIT9014C	2009	SVD0A90	1123	SYL-107	2007	T0-101	2007	T-22G	1104	T-291	2030
ST1502C	2010	ST-HIT9016G	2058	SVD-1S1717	562	SYL107	2007	T0-102	2007	T22G	1123	T291	2009
ST1502D	2010	STI701	2055	SVD1S1717	562	SYL107A	2007	T01-013	2009	T-23	2007	T-300	1104
ST1502L	2009	ST-LM2152	2009	SVD1S1850	1104	SYL-108	2007	T01-014	2009	T23	1123	T300	1104
ST1506	2009	ST-LM2682	2030	SVD-1S1850R	1104	SYL108	2007	T01-022	2030	T-23-71	2041	T308	2010
ST1602D	2023	STM73Q	2023	SVD1S1850R	1101	SYL108A	2007	T01-023	2023	T23-93	2020	T309	2023
ST1607	2009	ST-MPS9433	2009	SVD10D-1	1104	SYL152	2009	T01-030	2020	T23-94	2030	T327	2009
ST1694	2009	ST-MPS9433T	2009	SVD12B281P-M	1171	SYL-160	2007	T01-047	2016	T23G	1123	T327-2	2009
ST1702M	2009	ST-MPS9682J	2023	SVD20A70	1123	SYL160	2007	T01-101	2009	T24G	1123	T328	2009
ST1702N	2009	ST-MPS9700D	2009	SVD20A79	1123	SYL-1182	2009	T01-104	2009	T-26G	1104	T336-2	2030
ST-2040P	1104	ST-MPS9700E	2009	SVDA52FB10	1114	SYL1182	2009	T01-105	2009	T26G	1123	T-339	2030
ST2040P	1104	ST-MPS9700F	2009	SVDMA25-1	1123	SYL1430	2007	T033Z3	2007	T27G	1123	T339	2009
ST2110	2010	ST-MPS9750D	2023	SVDMA25-2	1102	SYL1535	2007	T-065	1104	T28G	2007	T340	2023
ST2120	2016	STR101(ELCOM)	1001	SVDOA70	1123	SYL-1583	2007	T065	1104	T-33Z1	2007	T342	2009
ST2130	2016	STR103(ELCOM)	1001	SVDOA90	1123	SYL1583	2007	T-075	1104	T33Z1	2007	T346	2007
ST3030	2009	STR201(ELCOM)	1001	SVDS1RB10	1171	SYL1583A	2007	T075	1104	T-33Z3	2007	T-34[illegible]	2007
ST3031	2009	STR202(ELCOM)	1001	SVDS-1S 850	1104	SYL1588	2007	T0101	2007	T33Z3	2007	T34[illegible]	2007
ST4150	2030	STR203(ELCOM)	1001	SVDSC20	1123	SYL-1608	2007	T0102	2007	T35A-5	2009	T367	2007
ST4201	2030	STR403(ELCOM)	1000	SVDVD1 21	1102	SYL1608	2007	T-0150	1104	T-39	2007	T-368	2007
ST4202	2030	STV-3	1104	SVDVD1223	1104	SYL1655	2007	T0150	1104	T39	2007	T368	2007
ST4203	2030	STX0014	2041	SVM61	561	SYL1655A	2007	T-04689	2030	T45	2007	T373	2007
ST4204	2030	STX0027	2041	SVM601	561	SYL1665	2007	T-112	2023	T-46	2007	T374	2007
ST4341	2030	STX0029	2027	SVM602	561	SYL1665A	2007	T1-1A6	2009	T46	2007	T381	2016
ST5060	2009	STX0030	2027	SVM605	561	SYL-1668	2007	T1-503	2023	T-47	2007	T386	2009
ST5641	2016	STX0032	2041	SVM6010	561	SYL1668	2007	T1-503A	2023	T47	2007	T-399	2009
ST6110	2009	STX0033	2007	SVM6011	561	SYL1668A	2007	T1-743	2023	T-48	2007	T399	2009
ST6120	2010	STX0034	2007	SVM6020	561	SYL1690	2007	T1-743A	2023	T48	2007	T-400	1104
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ST6511	2009	STX0085	2007	SW01	563	SYL1717	2007	T1-744A	2023	T50	2007	T416-16(SEARS)	2009
ST6512	2009	STX0087	2007	SW-05	1141	SYL2120	2007	T1-752	2023	T59	2007	T417	2009
ST6573	2030	STX0089	2007	SW05	1104	SYL2189	2007	T1-752A	2023	T60	2007	T449	2007
ST6574	2030	STX0090	2007	SW-05-005	1104	SYL2247	2007	T1 906	2023	T61	2007	T449(SEARS)	2007
ST6593	2009	STX0096	2007	SW-05-01	1104	SYL-2248	2007	TIG	1123	T72	2007	T-450	1104
ST6594	2009	STX0099	2007	SW05-01	1104	SYL2248	2007	TIJ6G	1104	T74	2007	T450	1104
ST6600	2009	STX0104	2007	SW-05-02	1104	SYL2248A	2007	TIP29	2020	T76	2009	T452	2030
ST6601	2030	STX0105	2007	SW05-02	1104	SYL-2249	2007	TIP29X	2020	T77	2007	T457-16	2009
ST7100	2016	STX0110	2007	SW-05-A	1104	SYL2249	2007	TIP31	2020	T-78	2007	T457-16(SEARS)	2009
ST8014	2023	STX0114	2007	SW-05-B	1104	SYL2249A	2007	TIP31A	2020	T78	2007	T458-16	2009
ST8033	2023	STX0123	2007	SW-05-C	1114	SYL-2250	2007	TIS03	2023	T-82	2007	T459(SEARS)	2009
ST8033A	2023	STX0260	2007	SW-05-D	1114	SYL2250	2007	TIS03A	2023	T82	2007	T460	2009
ST8034	2023	STX0263	2007	SW05A	1104	SYL-2300	2010	TIS04	2023	T83	2007	T460(SEARS)	2023
ST8034A	2023	STX0264	2007	SW05B	1104	SYL2300	2007	TIS04A	2023	T84	2007	T461-16	2009
ST8035	2023	STX0265	2007	SW05C	1114	SYL2300A	2007	TIS5A	2023	T87	2007	T461-16(SEARS)	2009
ST8035A	2023	STX0268	2007	SW05D	1114	SYL3460	2009	TIS-18	2058	T-95	2007	T462	2009
ST8036	2023	STX0269	2007	SW05S	1104	SYL3613	2007	TIS18	2058	T95	2007	T462(SEARS)	2009
ST8036A	2023	STX3326	2020	SW05SS	1104	SYL3613A	2007	TIS37A	2023	T-99	2007	T472	2009
ST8065	2023	STX49007	007	SW-05V	1104	SYL-4131	2010	TIS38	2023	T99	2007	T472(SEARS)	2009
ST8065A	2023	ST.082.112.005	2009	SW05V	1104	SYL4131	2010	TIS38A	2023	T-100	1104	T475(SEARS)	2023
ST8181	2023	ST 082.114.015	2009	SW0501	1104	SYL4275	2023	TIS53	2023	T100	2007	T482(SEARS)	2023
ST8182	2023	ST 082.114.016	2016	SW0.5A	1104	SYL4280	2030	TIS53A	2023	T101	2007	T-483	2010
ST8190	2023	ST.082.115.015	2023	SW1	1114	SZ4.7	565	TIS54	2023	T102A	2007	T483(SEARS)	2009
ST8500	2023	SU5	564	SW-1-01	1114	SZ5	565	TIS55	2009	T108	2007	T-484	2010
ST8500A	2023	SU-31	1123	SW-1-02	1114	SZ5.1	565	TIS58	2062	T-109	2007	T484(SEARS)	2009
ST8509	2023	SU44	2029	SW-1-03	1104	SZ6.2	561	TIS61A	2023	T109	2007	T485(SEARS)	2009
ST8509A	2023	SUC650	561	SW-1-04	1104	SZ6.2A	561	TIS86	2010	T112	2023	T-486	2010
ST8700	2023	SUM6010	561	SW-1-06	1104	SZ-9	562	TIS91	2023	T-116	2007	T486(SEARS)	2009
ST8704	2023	SUM6011	561	SW-1-08	1114	SZ9	562	TIS91A	2023	T116	2007	T-500	1104
ST8705	2023	SUM6020	561	SW-1-10	1114	SZ9.1	562	TIS93	2023	T-126	2007	T500	1104
ST8709	2023	SUM6021	561	SW-1A	1104	SZ12	563	TIS93A	2023	T126	2007	T-550	1104
ST22546-1	1103	SV-01A	1104	SW1C	1114	SZ12.0	563	TIS94	2010	T127	2007	T550	1104
ST27020	2027	SV01A	1104	SW1D	1114	SZ15	564	TIS95	2009	T-129	2007	T576-[illegible]	2016
ST32012-0037	1103	SV-01B	1104	SW4001	2401	SZ-15B	564	TIS98	2010	T129	2007	T597-[illegible]	2023
ST3[illegible]026	2016	SV-02(RECTIFIER)	1104	SW4011	2411	SZ15.0	564	TISDS1K	1104	T-130	2007	T-[illegible]00	1104

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T612-1	2020
T615A002	2009
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T-700-709	1123
T700-709	1123
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T800	1114
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T900	2023
T-1000	1114
T-1000X	1114
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T1001	2007
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T1002A	2007
T1003	2007
T1003-521	2010
T1004	2007
T1005	2007
T1006	2007
T1007	2007
T1007(ZENITH)	2016
T1008	2007
T1008-834	2009
T1009	2007
T1010	2007
T1011	2007
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T1013	2007
T1023	2007
T1028	2007
T1032	2007
T1033	2007
T-1034	2007
T1034	2007
T1036	2007
T1037	2007
T1030	2007
T1042	2007
T1043	2007
T1046	2007
T1047	2007
T1076	2007
T1085	1104
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T1202(GE)	2016
T1203	2007
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
TIS129	2058	TJ60A	1104	TM85	1114	TM5021A	563	TNJ-60283	2007	TNT840	2010	TQ9	2010
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TJ40A	1104	TM84	1114	TM5010A	565	TNJ60282	2007	TNT-840	2010	TQ8	2010		

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TR01073	2009	TR14	2007	TR-99B	562	TR1038-4	2043	TR310124	2007	TR-C44A	2007	TS2221	2009
TR01074	2009	TR-14C	2007	TR104	2007	TR-1039-4	2041	TR310125	2007	TRC44A	2007	TS2222	2009
TR02012	2007	TR14C	2007	TR105	2007	TR1039-4	2041	TR310136	2007	TR-C45	2007	TS2904	2023
TR02020-2	2023	TR-15	2007	TR105(SPRAGUE)	2016	TR1039-5	2041	TR310139	2007	TRC45	2007	TS2905	2023
TR02051-1	2023	TR15	2007	TR106(SPRAGUE)	2023	TR1039-6	2041	TR310147	2007	TR-C45A	2007	TS2906	2023
TR02051-3	2023	TR-15C	2007	TR109	2007	TR1077	2041	TR310149	2007	TRC45A	2007	TS2907	2023
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TR02051-6	2023	TR-17	2007	TR123	2007	TR1490	2041	TR310153	2007	TRC70	2007	TS-21756640	2023
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TR0573491	2009	TR-19	2023	TR-166(OLSON)	2007	TR2083-42	1102	TR310193	2007	TRM16	2007	TSC695	2009
TR0573507	2058	TR19	2023	TR-167(OLSON)	2023	TR2083-44	1102	TR310224	2007	TRM17	2007	TSC-722	2030
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TR6R26	2007	TR-69(IR)	2060	TR1000A	2023	TR8039	2009	TRA-22B	2007	TS-627B	2007	TV35	2016
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TV53	2030	TV24203	2010	TVM-EH2C11/1	1104	TVS-2SC538A	2009	TVS-CS1[illegible]A	2023	TVSS1R80	1104	TX-122-1	2023
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TV62	2060	TV24278	1104	TVS0A70	1123	TVS2SC645A	2010	TVSERC0510	1114	TVSSD82A	1124	TY-107-4	2009
TV62(PHILCO)	2060	TV24281	2009	TVS-0A71	1144	TVS-2SC645B	2010	TVSESA06	1104	TVSSF-1	1114	TY-107-12	2009
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TV87	2023	TV24387	2010	TVS-1S750	1124	TVS2SC684	2009	TVS-FT-1P	1104	TVSUC7[illegible]M12H2	1771	TZ-15C	564
TV-92	2009	TV-24399	2016	TVS1S750	1124	TVS2SC696	2030	TVSFT1P	1104	TVS-UFSD-1	1104	TZ15C	564
TV92	2009	TV24399	2016	TVS1S954	1102	TVS-2SC762	2016	TVS-FT10	1114	TVSUFSD-1F	1144	TZ[illegible]	2016
TV-93	2023	TV24436	2016	TVS-1S1211	1102	TVS2SC762	2010	TVS-FU1N	1104	TVSUFSD1F	1104	TZ[illegible]	2016
TV93	2023	TV24437	2016	TVS-1S1850	1104	TVS-2SC828	2009	TVSFU1N	1104	TVSUPC339C	1712	TZ[illegible]	2023
TV105	2043	TV24438	2010	TVS1S1850	1104	TVS2SC828	2009	TVSFUIN	1104	TVSW04	1171	TZ551	2023
TV110	2043	TV24453	2009	TVS-1S1893	1141	TVS2SC828(Q)	2009	TVSGP2-354	1102	TVSW04M	1171	TZ552	2023
TV-112	2020	TV24454	2009	TVS-1S1906	1104	TVS-2SC828A	2009	TVSHFSD-1A	1104	TVSWF2	1104	TZ1153	1102
TV112	2020	TV24458	2009	TVS1S1906	1104	TVS2SC828A	2009	TVS-HFSD1Z	1104	TVS ZB1-15	564	TZ11[illegible]	2009
TV-115	2020	TV24495	2023	TVS-1S1922	1141	TVS2SC828P	2009	TVS-HF-SD-12	1104	TW3	1104	TZ11[illegible]	2009
TV115	2010	TV24495A	2023	TVS1S1922G	1104	TVS-2SC828Q	2009	TVSHFSD12C	1104	TW[illegible]	1104	TZ11[illegible]	2009
TV-116	2027	TV24554	1102	TVS1S1926K	1124	TVS2SC828Q	2010	TVS-HS7/1	1104	TW10	1104	TZ7[illegible]	2030
TV-117	2020	TV24571	2016	TVS1S1950	1104	TVS2SC828R	2009	TVSIS1850	1104	TW20	1104	TZ7[illegible]	2030
TV117	2020	TV24573	2010	TVS1S2076	1102	TVS2SC829(B)	2009	TVSJA1200	2009	TW30	1104	TZ7[illegible]	2009
TV-118	2055	TV24574	2010	TVS-2CS645A	2009	TVS2SC829B	2010	TVSJL41A	1104	TW38	1114	TZ7[illegible]	2009
TV-119	2055	TV24576	2009	TVS-2S172F	2007	TVS2SC920-0Q	2010	TVSJL41AM	1104	TW40	1104	TZ7[illegible]	2023
TV-121	2055	TV24582	1104	TVS-2S288A	2010	TVS-2SC94[illegible]	2016	TVS-KC2-LP	1104	TW50	1104	TZ7501	2023
TV-124	2055	TV24586	1104	TVS-2SA71B	2007	TVS2SC968	2009	TVS-KC2CP12/1	1104	TW60	1104	TZ7503	2023
TV124	2055	TV24589	2010	TVS2SA71B	2007	TVS2SC1255	2030	TVS-KC2DP12/2	1104	TW-80	1114	T[illegible]PD3-1	565
TV-125	2055	TV24599	2007	TVS-2SA103	2007	TVS2SC1629A	2055	TVS-KC2[illegible]12/1	1104	TW80	1114	T[illegible]P75-1	565
TV1000	2010	TV24651	1141	TVS-2SA171	2007	TVS2SC5640	2023	TVSM1-02	1104	TW-100	1114	U0[illegible]	1102
TV2403	2010	TV24655	2009	TVS2SA171	2007	TVS2SD401	2020	TVSMA26	1102	TW100	1114	U05[illegible]	1114
TV2404	2010	TV24684	2010	TVS-2SA385	2007	TVS2SD[illegible]68	2030	TVSMI15RC	1104	TWV	1104	U0[illegible]C	1114
TV2419	1104	TV24803	1104	TVS-2SA385A	2007	TVS10D	1104	TVSMI15SC	1104	TX1N645	1104	U0[illegible]E	1114
TV2428	2007	TV24806	2010	TVS-2SA385L	2007	TVS10D1(PWR.RECT.)		TVSMR1C	1114	TX1N647	1104	U05ES	1114
TV2429	2007	TV24941	1104	TVS2SA483	2027		1104	TVSMR-1M	1114	TX1N3190	1104	U06F	1104
TV2434	2007	TV24942	1114	TVS-2SA564	2023	TVS10D2	1104	TVSN76665	1759	TX1N3191	1104	U1S102	1104
TV2455	2007	TV24945	2007	TVS2SA564	2023	TVS-10D8	1114	TVS-OA70	1123	TX-100-1	2009	U2N34	2007
TV2479	2007	TV24979	1104	TVS2SA564-O	2023	TVS10D[illegible]	1114	TVSOA71	1104	TX100-1	2009	U2N34A	2007
TV-2496	1104	TV24984	2007	TVS-2SA564A	2023	TVS10DC4	1104	TVS-OA81	1102	TX-100-2	2009	U2N[illegible]	2007
TV2496	1104	TV24985	1101	TVS2SA564A	2023	TVS10DC4R	1104	TVS-OA90	1123	TX100-2	2009	U2N[illegible]4A	2009
TV4152	2007	TV34232	1104	TVS2SA564C	2023	TVS10E2	1104	TVSOA90	1123	TX100-3	2009	U[illegible]	2007
TV[illegible]030	2030	TV241073	1104	TVS-2SA564P	2023	TVS10E4	1104	TVS-OA91	1123	TX-100-4	2030	U[illegible]	2007
TV24102	2010	TV241074	1104	TVS2SA564P	2023	TVS2SA103	2007	TVS-OA95	1102	TX100-4	2030	U6A7723393	1740
TV24103	1124	TV241077	2009	TVS2SA564PY	2023	TVS2SB172	2007	TVS-OV-02	1104	TX-101-9	2030	U7F7065354	1759
TV24103A	1124	TV241078	2009	TVS2SA564Q	2023	TVS2SC208	2009	TVS-PC02P11/2	1104	TX101-9	2030	U9A7723393	1740
TV24103B	1124	TVC-3	1104	TVS2SA607	2023	TVS2SC562	2009	TVS-PCD2P11/2	1104	TX-101-12	2009	U9C7065354	1759
TV24103C	1124	TVC3	1101	TVS2SA609	2023	TVS2SC645	2009	TVSPCD2P11/2	1104	TX101-12	2009	U9T7741393	007
TV24103D	1124	TVC-[illegible]	1101	TVS-2SB171	2007	TVS30D1	1114	TVSQA01-07R	564	TX-102-1	2009	U19C	1104
TV-24104	1104	TVC6	1101	TVS2SB171A	2007	TVS-82G	1124	TVSQA01-125	563	TX102-1	2009	U119	1114
TV24104	1104	TVCM 11	1759	TVS2SB171B	2007	TVS-1[illegible]5D	1104	TVSQA01-15RB	564	TX102-2	2009	U120	1114
TV24115	2007	TVCM-35	706	TVS-2SB171F	2007	TVS1[illegible]5D	1104	TVSQA01-15S	564	TX102-4	2030	U212	1104
TV-24125	1104	TVCM 59	1758	TVS-2SB172	2007	TVS550	1104	TVSQA105R	565	TX10[illegible]-1	2007	U212-55	1104
TV24125	1104	TVCM60	1757	TVS-2SB172A	2007	TVS-828A	2009	TVSQB01-15ZB	564	TX-107-1	2009	U213	1104
TV24130	1124	TVCM-61	030	TVS2SB172A	2007	TVS828A	2009	TVSRA1A	1102	TX107-1	2009	U214	1104
TV24136	1104	TVCM-81	705	TVS-2SB172F	2007	TVS-1303	2023	TVSRA-1Z	1104	TX-107-3	2010	U361	1114
TV24137	2007	TVCM-500	1801	TVS-2SB176	2007	TVS-1850	1144	TVS-RD(M)(P)D	563	TX-107-4	2009	U 422	1104
TV24148	2010	TVCM-503	1805	TVS-2SB234	2007	TVS1850	1104	TVS-RD5A	565	TX107-4	2009	U460A	2010
TV24152	2007	TVCM-505	1808	TVS2SB324	2007	TVS-AN241	1759	TVSRD5A	565	TX-107-5	2009	U460A/B	2010
TV24154	2007	TVCM-553	2030	TVS2SC58A	2009	TVSAN241	1759	TVSRD5R1EB2	565	TX107-5	2009	U460B	2010
TV24155	1104	TVDS1M	1104	TVS-2SC183P	2010	TVS-AN241D	1759	TVSRD9AL	562	TX-107-[illegible]	2009	U535	2058
TV24156	2007	TVH-526	1101	TVS-2SC183Q	2010	TVSAN241D	1759	TVSRD12E[illegible]H	563	TX107-[illegible]	2009	U535/7825B(TRANS)	
TV24157	2007	TVH526	1101	TVS-2SC1[illegible]5A	2010	TVSB01-02	1104	TVS-RD13A	563	TX-107-10	2009		2058
TV24158	2007	TVM35	1104	TVS-2SC206	2009	TVSB01-2	1102	TVS-RD13D	563	TX107-10	2009	U535/7825B(ZENER	561
TV24159	1124	TVM56	1104	TVS-2SC208	2010	TVSB24-06C	1104	TVS-RD13M	563	TX-107-12	2010	U535A	2058
TV24160	2016	TVM-511	1104	TVS-2SC208A	2009	TVSB24-06D	1104	TVS-RD13P	563	TX107-12	2009	U535A/B	2010
TV24161	2016	TVM511	1104	TVS-2SC287A	2010	TVSB1202	1104	TVSRH1M	1104	TX-107-16	2009	U535B	2058
TV24166	2007	TVM526	1101	TVS2SC2[illegible]A	2010	TVSB2004D	1104	TVSRM10	1104	TX107-16	2009	U535B/7825B	2058
TV24172	2007	TVM529	1171	TVS-2SC313	2016	TVSBAX-13	1102	TVSRM10M	1114	TX-10[illegible]-1	2009	U535C	2009
TV24182	1124	TVM-535	1104	TVS-2SC429A	2010	TVSBAX13	1102	TVSRMP5020	1104	TX10[illegible]-1	2009	U535M	2009
TV24189	2007	TVM546	1101	TVS-2SC446	2010	TVSBB10	1104	TVSRU2AM	1104	TX-112-1	2009	U[illegible]	1104
TV-24191	1104	TVM550	1104	TVS-2SC466	2016	TVSBBE	1104	TVS-S1B02-03C	1104	TX112-1	2009	U[illegible]	2009
TV24191	1104	TVM-554	1101	TVS2SC466	2010	TVSC0410	1114	TVS-S1B02-03CR	1104	TX-11[illegible]-1	2009	U[illegible]	2009
TV24193	1104	TVM563	1104	TVS-2SC469A	2010	TVS-CS1255H	2009	TVSS1P20	1104	TX120	2010	U[illegible]	2009

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
U1585H	2009	UP14046-46	2009	USFD-1	1104	V03-E	1114	V330	1141	VHSCR3AMZ8LB1	1020	VS-2SC324H	2009
U-2400-03	1104	UP14047-46	2009	USFD-1A	1104	V03C	1114	V331	1143	VHSCRAMZ8LB1	1020	VS2SC324H	2009
U2400-03	1104	UPB201C	1801	UT11	1104	V03E	1114	V332	1143	VHSS6142GLB1E	1020	VS-2SC371-R-1	2058
U2848-1	2009	UPB201D	1801	UT12	1143	V03G	1104	V334	1144	VHSSFOR1A411E	1067	VS2SC371-R-1	2016
U13033801	1104	UPB215C	1801	UT13	1143	V03O	1114	V405	2010	VHSSFORIA411E	1067	VS2SC372-Y/1E	2059
UA78M05UC	1770	UPB215D	1801	UT14	1104	V05B	1114	V409	2020	VHV1S1209-1	1102	VS2SC373//-1E	2016
UA78M12	1771	UPB219C	1808	UT15	1104	V05E	1104	V410	2023	VL/8RJ	2007	VS2SC373-//1E	2016
UA78M12CKC	1771	UPB219D	1808	UT-16	1104	V06	1104	V410A	2023	VL18RJ	2007	VS2SC373-G/-1	2016
UA78M12CKD	1771	UPB234C	1822	UT16	1104	V06(DIO)	1104	V415	2010	VM-30209	2009	VS2SC373G-1	2016
UA78M12UC	1771	UPB234D	1822	UT17	1104	V06(RECT)	1104	V417	2010	VM30209	2009	VS2SC374-8-1	2016
UA78M15CKC	1772	UPB235D	1802	UT18	1104	V06-C	1104	V435	2010	VM-30241	2009	VS2SC383-W/1E	2016
UA78M15CKD	1772	UPB2047D	1805	UT21	1104	V06-E	1114	V435A	2023	VM30241	2009	VS-2SC385	2007
UA78M15UC	1772	UPB7400C	1801	UT22	1104	V06-G	1114	V-442	1104	VM-30242	2009	VS-2SC385L	2007
UA79M05AUC	1773	UPB7404C	1802	UT23	1104	V06A	1104	V442	1104	VM30242	2009	VS2SC385L	2007
UA224DM	1711	UPB7447C	1805	UT24	1104	V06B	1114	V600	2030	VM-30244	2007	VS2SC394-0-1	2058
UA324DC	1711	UPC16C	1759	UT25	1104	V06BX4	1104	V653	2061	VM30244	2007	VS2SC394-O-1	2016
UA324PC	1711	UPC78M05	1770	UT26	1104	V06C	1104	V721	2023	VM-PH9D522/1	1104	VS2SC394-Y-1	2058
UA339ADC	1712	UPC78M12	1771	UT27	1104	V06C(POWER-RECTIFIER		V761	2023	VM-PH11D522/1	1104	VS-2SC446	2016
UA348DC	1714	UPC78M12H2	1771	UT111	1104		1104	V763	2023	VMPH11D522-1	1104	VS2SC454-B/1E	2059
UA555	1723	UPC143-05	1770	UT-112	1104	V06E	1104	V1112	1102	VM-PH90522/1	1104	VS2SC454-C/1A	2059
UA555TC	1723	UPC177C	1712	UT112	1104	V06G	1114	V-1266	564	VM-TC02P11/2	1104	VS2SC454-C/1E	2059
UA556PC	1728	UPC324C	1711	UT113	1104	V07E	1104	V3074A20	1104	VM-TC0.2P11/2	1104	VS2SC454-C/3A	2059
UA723C(D.I.P.)	1740	UPC339C	1712	UT114	1104	V07G	1104	V3074A21	1104	VO1G	1101	VS-2SC-458	2009
UA723CA	1740	UPC741C	007	UT115	1104	V07J	1114	V-8634-3	1124	VO1G(EMERSON)	1101	VS-2SC458	2009
UA723CJ	1740	UPC1458C	038	UT116	1104	V08E	1104	V8634-3	1124	VO3-C	1114	VS2SC458	2009
UA723CN	1740	UPC2002	703	UT117	1104	V08G	1104	V9446-4	1104	VO3-G	1114	VS2SC458-C/1E	2059
UA723DC	1740	UPC4001C	2401	UT118	1114	V08J	1114	V9646-4	1104	VO-3C	1114	VS2SC4608-1	2059
UA723HM	1740	UPC4558C	038	UT120	1114	V09-E(CENT.)	1101	V10158	1104	VO3C	1114	VS-2SC466	2058
UA723ML	1740	UPC14305H	1770	UT211	1144	V09C	1104	V10916-1	1123	VO3G	1114	VS-2SC538	2009
UA723PC	1740	UPC14312	1771	UT212	1144	V09E	1104	V-10916-3	1123	VO-5E	1104	VS2SC538	2009
UA741CP	007	UPC14312H	1771	UT213	1144	V09G	1104	V10916-3	1123	VO6-C	1104	VS-2SC563	2010
UA741CV	007	UPC14315	1772	UT221	1104	V0G	1104	V11[illegible]9-1	1104	VO6-G	1104	VS-2SC645	2010
UA741TC	007	UPC14315D	1772	UT222	1104	V6/2R	2007	V15920	1104	VO-6A	1104	VS-2SC645A	2010
UA1458CP	038	UPC14315H	1772	UT223	1104	V6/2RC	2007	V50260-10	1102	VO6A	1144	VS2SC645A	2009
UA1458CTC	030	UPD4001C	2401	UT224	1104	V6/2RJ	2007	V50260-16	1123	VO-6B	1144	VS-2SC645B	2009
UA1458P	038	UPD4011C	2411	UT225	1104	V6/4R	2007	V50260-36	1102	VO6B	1104	VS-2SC645C	2009
UA1458TC	038	UPD4013C	2413	UT226	1104	V6/4RC	2007	VAMV-1	1104	VO-6C	1104	VS-2SC683	2016
UA2002	703	UPD4017C	2417	UT227	1104	V6/4RJ	2007	VAR	1102	VO6C	1104	VS-2SC683Y	2058
UA2901PC	1712	UPD4023C	2423	UT228	1104	V6/8R	2007	VAR-1R2	1102	VO-6C-401	1144	VS-2SC684	2010
UA2902	1711	UPD4049C	2449	UT229	1104	V6/8RJ	2007	VARIST-5	1104	VO9-E	1144	VS2SC684	2010
UA3065	1759	UPD4066C	2466	UT231	1104	V6/RC	2007	VB-11	1104	VOG	1104	VS2SC717///-1	2016
UA3065PC	1759	UPD4066G	2466	UT232	1104	V6C	1104	VB11	2007	VR9B	562	VS2SC732-V1F	2016
UA3301P	1713	UPI706	2009	UT233	1104	V10/1S	2007	VB13	2007	VR9.1	562	VS2SC732-VIF	2009
UA3401PC	1713	UPI706A	2009	UT-234	1104	V10/1SJ	2007	VB100	1104	VR9.1A	562	VS2SC733B-1	2016
UA4558T	038	UPI706B	2009	UT234	1143	V10/2S	2007	VB300	1104	VR9.1B	562	VS2SC735-Y-1	2059
UA7500A	1770	UPI718A	2009	UT235	1144	V10/2SJ	2007	VB-400	1104	VR12	563	VS2SC735Y-1	2059
UA7805A	1770	UPI956	2030	UT236	1143	V10/15A	2007	VB400	1104	VR12A	563	VS-2SC762	2010
UA7805C	1770	UPI1301	2007	UT-238	1104	V10/15A18	2007	VB500	1104	VR12B	563	VS2SC784-R1F	2058
UA7805UC	1770	UPI1303	2007	UT242	1143	V10/25	2007	VB-600	1104	VR-14	564	VS2SC784R1F	2058
UA7812C	1771	UPI1305	2007	UT244	1144	V10/25J	2007	VB600	1104	VR15	564	VS2SC945LK-1	2016
UA7812CKC	1771	UPI1307	2007	UT249	1143	V10/30A	2007	VB600A	1104	VR15A	564	VS2SC945LP-1	2016
UA7812UC	1771	UPI1309	2007	UT251	1143	V10/30A18	2007	VBH600	1104	VR15B	564	VS2SC1172-/1E	2055
UA7815C	1772	UPI1347	2007	UT252	1143	V10/50A	2007	VC6E	1104	V5-0A70	1123	VS2SC1173-Y-3	2020
UA7815CKC	1772	UPI1352	2007	UT254	1144	V10/50A18	2007	VD1E1////-1	1104	VS-1	1104	VS2SC1174-/1E	2055
UA7815CU	1772	UPI1353	2007	UT261	1143	V11N	1104	VD6	1104	VS1	1104	VS2SC1174-1E	2055
UA7815UC	1772	UPI1613	2030	UT262	1143	V13/11	2007	VD10E1LF	1104	VS-1N82AG	1124	VS2SC1213-C/1A	2059
UA7905C	1773	UPI1711	2030	UT264	1144	V15/20R	2007	VD10E11F	1104	VS2A718S	2007	VS2SC1213AC/1A	2059
UA7905UC	1773	UPI2217	2030	UT345	1114	V15C200/80-V[illegible]	1104	VD11	1123	VS-2SA71	2007	VS2SC1335D/-1	2016
UBFY11	2010	UPI2218	2030	UT2005	1141	V15C200/80-VF	1104	VD12	1123	VS-2SA718	2007	VS2SC1335D/-1E	2016
UC78M12H2	1771	UPI2222	2009	UT2010	1143	V17L	1104	VD13	1123	VS2SA71B	2007	VS2SC1335D/1	2016
UC547C	2009	UPI2222B	2009	UT2020	1143	V19	1104	VD115OM	1102	VS-2SA718S	2007	VS2SC1627A	2030
UC1100	2023	UPI2222P	2009	UT2040	1144	V19C	1104	VD-121C	1104	VS2SA71BS	2007	VS2SC1627Y	2030
UC1100A	2023	UPI4046	2009	UT2080	1114	V19E	1104	VD1127	1102	VS-2SA103	2007	VS2SC1674L/-1	2058
UC7933	1771	UPI4046-46	2009	UT3005	1141	V50A260-36	1123	VD-S-7-013626-001	1103	VS2SA103	2007	VS2SC1675M-1	2058
UD5B	1114	UPI4047-46	2009	UT3010	1143	V50A260-36(GE-DIO)		VE18	1173	VS-2SA288A	2009	VS2SC1681G/1E	2016
UES-A56F	220	UPT111	2030	UT3020	1143		1123	VE27	1173	VS-2SA358	2007	VS2SC1841-E-1	2009
UF-01	2007	UPT112	2030	UT3040	1144	V50A260-36(SI DIO)		VE28	1173	VS-2SA378	2007	VS2SC1855//-1	2010
UF01	1104	UPT113	2030	UZ1-5.1	565		1102	VE47	1173	VS2SA378	2007	VS2SC1890A/1E	2016
UF-2	1104	UPT533	2055	UZ1-6.2	561	V51	2007	VE48	1173	VS-2SA379	2007	VS2SC1890AD-1	2061
UF2	1104	UPT534	2055	UZ1-9.1	562	V58	2007	VFA-2745C	1104	VS2SA379	2007	VS2SC1959Y/1E	2009
UF-SD1	1123	UPT535	2055	UZ1-12	563	V66	1104	VFA2745C	1104	VS-2SA385	2007	VS2SC1983//-1	2020
UFSD-1	1104	UR105	1104	UZ1-15	564	V74	1123	VFL-2744K	2007	VS2SA385	2007	VS2SC2371K/1E	2061
UFSD-1A	1104	UR110	1104	UZ5.1	565	V75	2007	VFL2744K	2007	VS-2SA385L	2007	VS2SC2303//1E	2061
UFSD-1B	1114	UR115	1104	UZ5.1B	565	V115	1123	VFQ-2745F	2007	VS2SA495-0/1E	2023	VS2SC2402//-1	2061
UFSD1F	1104	UR120	1104	UZ9B	562	V117	1123	VFQ2745F	2007	VS2SA495-O/-1	2023	VS2SC2610K/1E	2061
UFSD-18	1114	UR125	1104	UZ9.1	562	V118	2010	VFS5K	2007	VS2SA495-O/1E	2061	VS2SC16742/-1	2058
UG1888	1102	UR205	1141	UZ9.1B	562	V119	2009	VFS-2745	2007	VS2SA495-Y/1E	2023	VS2SD227V-1	2009
UGH7812	1771	UR210	1143	UZ-12B	563	V120	2007	VFS-2745J	2007	VS2SA562-0/1E	2023	VS2SD467-C/-1	2059
ULN2165	1759	UR215	1143	UZ13B	563	V120PH	2010	VFT-2745H	2007	VS2SA562-O/1E	2023	VS2SD471-S/-1	2059
ULN2165A	1759	UR220	1143	UZ15	564	V120RH	2030	VFT2745H	2007	VS2SA562-Y/1E	2023	VS2SD476-C/-1	2020
ULN2165N	1759	UR225	1144	UZ-15C	564	V126	564	VFW2745D	2007	VS2SA673-B/1E	2023	VS2SD478-YL2E	2020
ULN2280A	706	US1555	1102	UZ8709	562	V129	2010	VFW-27450	2007	VS2SA673-C/1A	2023	VS2SD478-YL-ZE	2020
ULN2280B	706	US7051A	565	UZ8712	563	V130LA10A	570	VFY-2745E	2007	VS2SA673-C/1E	2023	VS2SD478SYL2E	2020
ULN2280N	706	US7120B	563	UZ8715	564	V135	1123	VFY2745E	2007	VS2SA854-Q/1E	2023	VS2SD478YL2E	2020
ULN2280P	706	US7150	564	UZ8809	562	V139	2030	VHD1N34A///-1	1123	VS-2SB171	2007	VS2SD666-C/-1	2061
ULN2280Q	706	US7400A	1801	UZ8812	563	V143	2010	VHD1N34A///1	1123	VS2SB171	2007	VS2SD666A-C1A	2061
ULN3701Z	703	US7400J	1801	UZ8814	562	V146	2030	VHD1N60////-1	1123	VS-2SB172	2007	VS2SD764///-1	2055
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UO5B	1114	US7401J	1801	UZL-5.1	565	V154	2030	VHD1S34///-1	1123	VS-2SB172FN	2007	VS9-0001-911	1104
UO5C	1114	US7404A	1802	UZL-6.2	561	V160	563	VHD1S1553//-1	1102	VS-2SB176	2007	VS9-0002-911	1104
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UO5G	1104	US7408J	1822	UZL-15	564	V169	2009	VHD1S1834	1104	VS2SB178	2007	VS9-0004-911	1114
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UP1706A	2016	US7490A	1808	V0-3C	1114	V177	2030	VHD1S1885-1	1104	VS2SB178A	2007	VS9-0005-911	1104
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UP11303	2007	USAF505ES105	2007	V0-6A	1114	V191	1114	VHD1S2076-//-1	1102	VS2SB324	2009	VS9-0006-911	1104
UP11305	2007	USAF508ES020P	2061	V0-6B	1104	V205	2007	VHD1S2076-1	1102	VS2SB561-C/-1	2023	VS9-0006-913	2009
UP11307	2007	USAF508ES021P	2061	V0-6C	1104	V-210C	1123	VHD1S2230//1E	1104	VS-2SC41	2041	VS9-0007-911	1104
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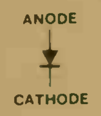
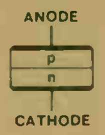
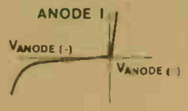
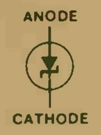
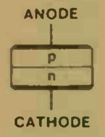
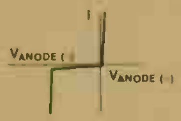
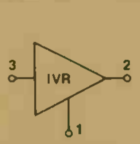
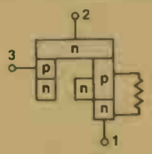
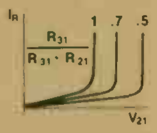
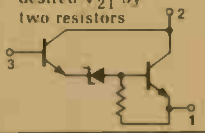
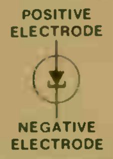
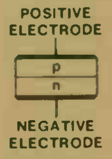
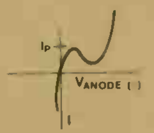
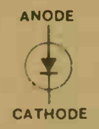
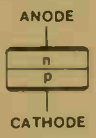
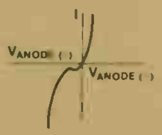
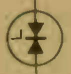
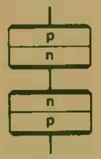
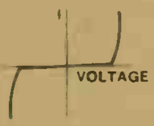
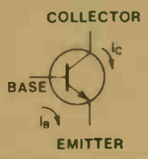
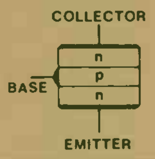
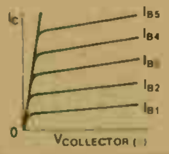
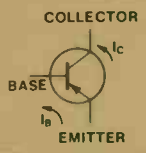
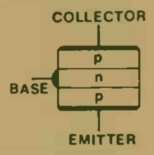
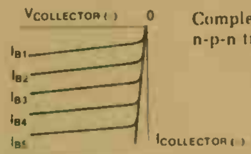
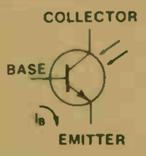
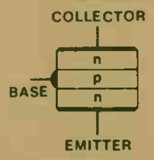
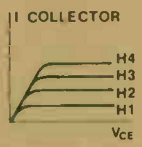
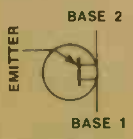
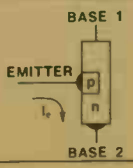
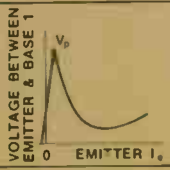
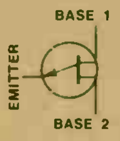
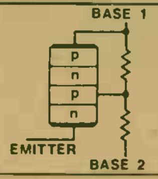
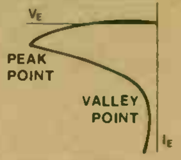
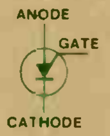
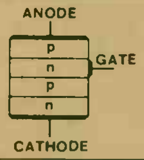
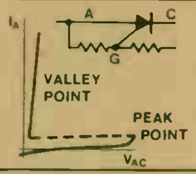
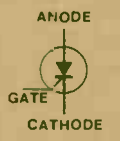
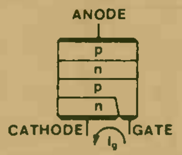
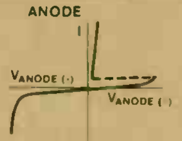
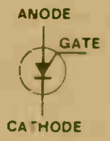
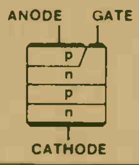
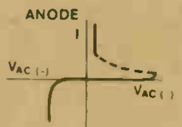
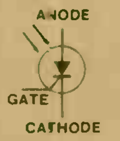
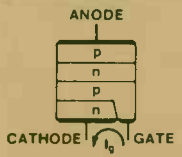
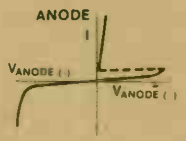
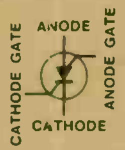
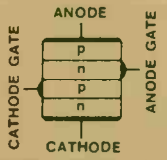
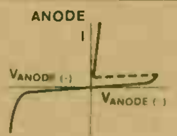
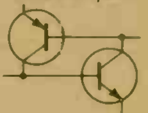
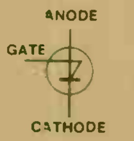
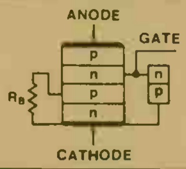
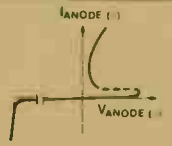
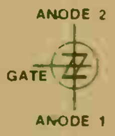
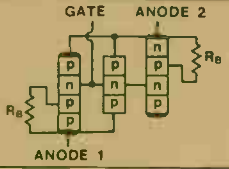
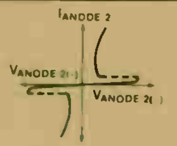
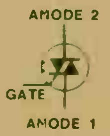
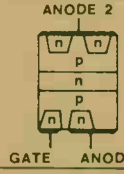
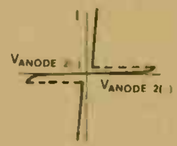
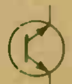
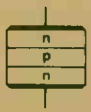
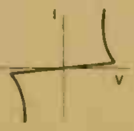
ZT709	2010
ZT917	2010
ZT918	2010
ZT930	2016
ZT1420	2009
ZT1479	2030
ZT1481	2030
ZT1483	2020
ZT1484	2020
ZT1485	2020
ZT1486	2020
ZT1487	2041
ZT1488	2041
ZT1489	2041
ZT1490	2041
ZT1613	2030
ZT1700	2030
ZT1701	2020
ZT1702	2041
ZT1708	2009
ZT1711	2030
ZT2102	2030
ZT2205	2009
ZT2206	2009
ZT2270	2030
ZT2368	2009
ZT2369	2009
ZT2369A	2009
ZT2475	2010
ZT2476	2009
ZT2477	2009
ZT2708	2016
ZT2857	2010
ZT2876	2020
ZT2938	2009
ZT3269A	2010
ZT3512	2030
ZT3600	2010
ZT3866	2030
ZTR-1N60	1123
ZTR-B54	2007
ZTR-B56	2007
ZTR-FOR2B	1067
ZTR-FOR2B	1067
ZTR-W06B	1104
ZTR-W06C	1104
ZTR-WO6B	1104
ZTX3IU	2010
ZTX107	2009
ZTX108	2009
ZTX109	2009
ZTX300	2009
ZTX301	2009
ZTX302	2009
ZTX303	2009
ZTX304	2009
ZTX310	2009
ZTX311	2009
ZTX312	2009
ZTX320	2010
ZTX321	2010
ZTX330	2009
ZTX331	2009
ZTX360	2009
ZTX501	2023
ZTX502	2023
ZTX503	2023
ZTX504	2023
ZTX510	2023
ZTX530	2023
ZTX530A	2023
ZTX530B	2023
ZTX530C	2023
ZTX530D	2023
ZTX531	2023
ZTX531A	2023
ZTX531B	2023
ZU12	563
ZU12A	563
ZU12B	563
ZU-15	564
ZU15	564
ZU-15A	564
ZU15A	564
ZU-15B	564
ZU15B	564
ZV9.1	562
ZV9.1A	562
ZV9.1B	562
ZV12	563
ZV12A	563
ZV12B	563
ZV-15	564
ZV15	564
ZV-15A	564
ZV15A	564
ZV-15B	564
ZV15B	564
ZW0-9.1	562
ZW2	1104
ZW9.1	562
ZX9.1	562
ZY12A	563
ZY12B	563
ZY-15	564
ZY-15A	564
ZY15A	564
ZY-15B	564
ZY15B	564
ZZ4.1	565
ZZ5 1	565
ZZ6.2	561
ZZ9.1	562
ZZ12	563
ZZ-15	564
ZZ15	564

MAJOR SEMICONDUCTOR COMPONENTS

NAME OF DEVICE	CIRCUIT SYMBOL	COMMONLY USED JUNCTION SCHEMATIC	ELECTRICAL CHARACTERISTICS		MAX RATINGS AVAILABLE	MAJOR APPLICATIONS	ROUGHLY ANALOGOUS TO:
Diode or Rectifier				Conducts easily in one direction, blocks in the other	1500 Amps 3000 Volts	Rectification Blocking Detecting Steering	Check valve Diode tube Gas diode
Avalanche (Zener) Diode				Constant voltage characteristic in negative quadrant	22 Volts 1 Watt	Regulation Reference Clipping	V-R tube
Integrated Voltage Regulator (IVR)				Programmed to desired V_{21} by two resistors 	40 Volts 100 mA 0.4 Watts	Shunt voltage regulator Reference element Error modifier Level sensing Level shifting	Avalanche Diode
Tunnel Diode				Displays negative resistance when current exceeds peak point current I_p	Peak point current = 100 mA Resistive cutoff freq = 40 Gc	UHF converter Logic circuits Microwave circuits Level sensing	None
Back Diode				Similar characteristics to conventional diode except very low forward voltage drop	5 mA 400 mV	Microwave mixers and low power oscillators	None
Thyrector				Rapidly increasing current above rated voltage in either direction	70 A peak pulse (2" Sq. cell)	Transient voltage suppression and arc suppression	Thyrite Two avalanche diodes in inverse-series connection
n-p-n Transistor				Constant collector current for given base drive	300 Volts 25 Watts	Amplification Switching Oscillation	Pentode Tube
p-n-p Transistor				Complement to n-p-n transistor	75 Volts 25 Watts	Amplification Switching Oscillation	None
Photo Transistor				Incident light acts as base current of the photo transistor	45 Volts 0.25 Amps 0.6 Watts	Tape readers Card readers Position sensor Tachometers	None
Unijunction Transistor (UJT)				Unijunction emitter blocks until its voltage reaches V_p; then conducts	35 Volts 0.450 Watts	Interval timing Oscillation Level Detector SCR Trigger	None

MAJOR SEMICONDUCTOR COMPONENTS

NAME OF DEVICE	CIRCUIT SYMBOL	COMMONLY USED JUNCTION SCHEMATIC	ELECTRICAL CHARACTERISTICS		MAX RATINGS AVAILABLE	MAJOR APPLICATIONS	ROUGHLY ANALOGOUS TO:
Complementary Unijunction Transistor (CUJT)				Functional complement to UJT	30 Volts 0.30 Watts 0.15 Amps	High stability timers Oscillators and level detectors	None
Programmable Unijunction Transistor (PUT)				Programmed by two resistors for V_p, I_p, I_v Function equivalent to normal UJT.	40 Volts 0.30 Watts 0.15 Amps	Low cost timers and oscillators Long period timers SCR trigger Level detector	UJT
Silicon Controlled Rectifier (SCR)		 ANODE p n p n CATHODE I_g GATE		With anode voltage (+), SCR can be triggered by I_g, remaining in conduction until anode I is reduced to zero	1000 Amps 1800 Volts	Power switching Phase control Inverters Choppers	Gas thyratron or ignitron
Complementary Silicon Controlled Rectifier (CSCR)				Polarity complement to SCR	50 Volts 0.25 Amps 0.45 Watts	Ring counters Low speed logic Lamp driver	None
Light Activated SCR* (LASCR)		 ANODE p n p n CATHODE I_g GATE		Operates similar to SCR, except can also be triggered into conduction by light falling on junctions	1.6 Amps 200 Volts	Relay Replacement Position controls Photoelectric applications Slave flashes	None
Silicon Controlled Switch* (SCS)		 ANODE CATHODE GATE p n p n ANODE GATE CATHODE		Operates similar to SCR except can also be triggered on by a negative signal on anode-gate. Also several other specialized modes of operation	100 Volts 200 mA	Logic applications Counters Nixie drivers Lamp drivers	Complementary transistor pair 
Silicon Unilateral Switch (SUS)		 ANODE GATE p n p n n p R_B CATHODE		Similar to SCS but zener added to anode gate to trigger device into conduction at ~ 8 volts Can also be triggered by negative pulse at gate lead	0.350 Watts 0.200 Amps 10 Volts	Switching Circuits Counters SCR Trigger Oscillator	Shockley or 4-layer diode
Silicon Bilateral Switch (SBS)		 GATE ANODE 2 R_B p n p n R_B ANODE 1		Symmetrical bilateral version of the SUS. Breaks down in both directions as SUS does in forward.	0.350 Watts 0.200 Amps 10 Volts	Switching Circuits Counters TRIAC Phase Control	Two inverse Schockley diodes
Triac		 ANODE 2 n n p n p n n GATE ANODE 1		Operates similar to SCR except can be triggered into conduction in either direction by (+) or (-) gate signal	25 Amps 500 Volts	AC switching Phase control Relay replacement	Two SCRs in inverse parallel
Diac Trigger				When voltage reaches trigger level (about 35 volts), abruptly switches down about 10 volts.	40 Volts 2 Amps peak	Triac and SCR trigger Oscillator	Neon lamp

*Light Activated SCS also available.

GLOSSARY OF WORDS, SYMBOLS AND ABBREVIATIONS

The following letter symbols and abbreviations are recommended by the Joint Electron Device Engineering Council (JEDEC) of the Electronic Industries Association (EIA) and the National Electrical Manufacturers Association (NEMA) for use in semiconductor device data sheets and specifications.

A, a —Anode
B, b —Base
b_{fs} —Common-source small-signal forward transfer susceptance
b_{is} —Common-source small-signal input susceptance
b_{os} —Common-source small-signal output susceptance
b_{rs} —Common-source small-signal reverse transfer susceptance
C, c —Collector
C_{cb} —Collector-base interterminal capacitance
C_{ce} —Collector-emitter interterminal capacitance
C_{ds} —Drain-source capacitance
C_{du} —Drain-substrate capacitance
C_{eb} —Emitter-base interterminal capacitance
C_{ibo} —Common-base open-circuit input capacitance
C_{ibs} —Common-base short-circuit input capacitance
C_{ieo} —Common-emitter open-circuit input capacitance
C_{ies} —Common-emitter short-circuit input capacitance
C_{iss} —Common-source short-circuit input capacitance
C_{obo} —Common-base open-circuit output capacitance
C_{obs} —Common-base short-circuit output capacitance
C_{oeo} —Common-emitter open-circuit output capacitance
C_{oes} —Common-emitter short-circuit output capacitance
C_{oss} —Common-source short-circuit output capacitance
C_{rbs} —Common-base short-circuit reverse transfer capacitance
C_{rcs} —Common-collector short-circuit reverse transfer capacitance
C_{res} —Common-emitter short-circuit reverse transfer capacitance
C_{rss} —Common-source short-circuit reverse transfer capacitance
C_{tc} —Collector depletion-layer capacitance
C_{te} —Emitter depletion-layer capacitance
D, d —Drain
E, e —Emitter
η —Intrinsic standoff ratio
f_{hfb} —Common-base small-signal short-circuit forward current transfer ratio cutoff frequency
f_{hfc} —Common-collector small-signal short-circuit forward current transfer ratio cutoff frequency
f_{hfe} —Common-emitter small-signal short-circuit forward current transfer ratio cutoff frequency
f_{max} —Maximum frequency of oscillation
F_{T} —Transition frequency (frequency at which common-emitter small-signal forward current transfer ratio extrapolates to unity)
G, g —Gate
g_{fs} —Common-source small-signal forward transfer conductance
g_{is} —Common-source small-signal input conductance
g_{MB} —Common-base static transconductance
g_{MC} —Common-collector static transconductance
g_{ME} —Common-emitter static transconductance
g_{os} —Common-source small-signal output conductance
G_{PB} —Common-base large-signal insertion power gain
G_{pb} —Common-base small-signal insertion power gain
G_{PC} —Common-collector large-signal insertion power gain
G_{pc} —Common-collector small-signal insertion power gain
G_{PE} —Common-emitter large-signal insertion power gain
G_{pe} —Common-emitter small-signal insertion power gain
G_{pg} —Common-gate small-signal insertion power gain
G_{ps} —Common-source small-signal insertion power gain
g_{rs} —Common-source small-signal reverse transfer conductance
G_{TB} —Common-base large-signal transducer power gain
G_{tb} —Common-base small-signal transducer power gain
G_{TC} —Common-collector large-signal transducer power gain
G_{tc} —Common-collector small-signal transducer power gain
G_{TE} —Common-emitter large-signal transducer power gain
G_{te} —Common-emitter small-signal transducer power gain
G_{tg} —Common-gate small-signal transducer power gain
G_{ts} —Common-source small-signal transducer power gain
h_{FB} —Common-base static forward current transfer ratio
h_{fb} —Common-base small-signal short-circuit forward current transfer ratio
h_{FC} —Common-collector static forward current transfer ratio
h_{fc} —Common-collector small-signal short-circuit forward current transfer ratio
h_{FE} —Common-emitter static forward current transfer ratio
h_{fe} —Common-emitter small-signal short-circuit forward current transfer ratio
h_{FEl} —Inherent large-signal forward current transfer ratio
h_{IB} —Common-base static input resistance
h_{ib} —Common-base small-signal short-circuit input impedance
h_{IC} —Common-collector static input resistance
h_{ic} —Common-collector small-signal short-circuit input impedance
h_{IE} —Common-emitter static input resistance
h_{ie} —Common-emitter small-signal short-circuit input impedance
$h_{ie(imag)}$ —Imaginary part of common-emitter small-signal short-circuit input impedance
$h_{ie(real)}$ —Real part of common-emitter small-signal short-circuit input impedance
h_{ob} —Common-base small-signal open-circuit output admittance
h_{oc} —Common-collector small-signal open-circuit output admittance
h_{oe} —Common-emitter small-signal open-circuit output admittance
$h_{oe(imag)}$ —Imaginary part of common-emitter small-signal open-circuit output admittance

$h_{oe(real)}$ —Real part of common-emitter small-signal open-circuit output admittance

h_{rb} —Common-base small-signal open-circuit reverse voltage transfer ratio

h_{rc} —Common-collector small-signal open-circuit reverse voltage transfer ratio

h_{re} —Common-emitter small-signal open-circuit reverse voltage transfer ratio

I_B —Base-terminal dc current

I_b —Alternating component (rms value) of base-terminal current

i_B —Instantaneous total value of base-terminal current

I_{BEV} —Base cutoff current, dc

$I_{B2(mod)}$ —Interbase modulated current

I_C —Collector-terminal dc current

I_c —Alternating component (rms value) of collector-terminal current

i_C —Instantaneous total value of collector-terminal current

I_{CBO} —Collector cutoff current (dc), emitter open

I_{CEO} —Collector cutoff current (dc), base open

I_{CER} —Collector cutoff current (dc), specified resistance between base and emitter

I_{CES} —Collector cutoff current (dc), base shorted to emitter

I_{CEV} —Collector cutoff current (dc), specified voltage between base and emitter

I_{CEX} —Collector cutoff current (dc), specified circuit between base and emitter

I_D —Drain current, dc

$I_{D(off)}$ —Drain cutoff current

$I_{D(on)}$ —On-state drain current

I_{DSS} —Zero-gate-voltage drain current

I_E —Emitter-terminal dc current

I_e —Alternating component (rms value) of emitter-terminal current

i_E —Instantaneous total value of emitter-terminal current

I_{EBO} —Emitter cutoff current (dc), collector open

I_{EB2O} —Emitter reverse current

$I_{EC(ofs)}$ —Emitter-collector offset current

I_{ECS} —Emitter cutoff current (dc), base short-circuited to collector

$I_{E1E2(off)}$—Emitter cutoff current

I_F —For voltage-regulator and voltage-reference diodes: dc forward current. For signal diodes and rectifier diodes: dc forward current (no alternating component)

I_f —Alternating component of forward current (rms value)

i_F —Instantaneous total forward current

$I_{F(AV)}$—Forward current, dc (with alternating component)

I_{FM} —Maximum (peak) total forward current

$I_{F(OV)}$—Forward current, overload

I_{FRM} —Maximum (peak) forward current, repetitive

$I_{F(RMS)}$ —Total rms forward current

I_{FSM} —Maximum (peak) forward current, surge

I_G —Gate current, dc

I_{GF} —Forward gate current

I_{GR} —Reverse gate current

I_{GSS} —Reverse gate current, drain short-circuited to source

I_{GSSF} —Forward gate current, drain short-circuited to source

I_{GSSR} —Reverse gate current, drain short-circuited to source

I_I —Inflection-point current

$Im(h_{ie})$—Imaginary part of common-emitter small-signal short-circuit input impedance

$Im(h_{oe})$—Imaginary part of common-emitter small-signal open-circuit output admittance

I_O —Average forward current, 180° conduction angle, 60-Hz half sine wave

I_P —Peak-point current

I_R —For voltage-regulator and voltage-reference diodes: dc reverse current. For signal diodes and rectifier diodes: dc reverse current (no alternating component)

I_r —Alternating component of reverse current (rms value)

i_R —Instantaneous total reverse current

$I_{R(AV)}$—Reverse current, dc (with alternating component)

I_{RM} —Maximum (peak) total reverse current

I_{RRM} —Maximum (peak) reverse current, repetitive

$I_{R(RMS)}$ —Total rms reverse current

I_{RSM} —Maximum (peak) surge reverse current

I_S —Source current, dc

I_{SDS} —Zero-gate-voltage source current

$I_{S(off)}$ —Source cutoff current

I_V —Valley-point current

I_Z —Regulator current, reference current (dc)

I_{ZK} —Regulator current, reference current (dc near breakdown knee)

I_{ZM} —Regulator current, reference current (dc maximum rated current)

K, k —Cathode

L_c —Conversion loss

M —Figure of merit

NF_o —Overall noise figure

NR_o —Output noise ratio

P_{BE} —Power input (dc) to base, common emitter

p_{BE} —Instantaneous total power input to base, common emitter

P_{CB} —Power input (dc) to collector, common base

p_{CB} —Instantaneous total power input to collector, common base

P_{CE} —Power input (dc) to collector, common emitter

p_{CE} —Instantaneous total power input to collector, common emitter

P_{EB} —Power input (dc) to emitter, common base

p_{EB} —Instantaneous total power input to emitter, common base

P_F —Forward power dissipation, dc (no alternating component)

p_F —Instantaneous total forward power dissipation

$P_{F(AV)}$—Forward power dissipation, dc (with alternating component)

P_{FM} —Maximum (peak) total forward power dissipation

P_{IB} —Common-base large-signal input power

p_{ib} —Common-base small-signal input power

P_{IC} —Common-collector large-signal input power

p_{ic} —Common-collector small-signal input power

P_{IE} —Common-emitter large-signal input power

p_{ie} —Common-emitter small-signal input power

P_{OB} —Common-base large-signal output power

p_{ob} —Common-base small-signal output power

P_{OC} —Common-collector large-signal output power

p_{oc} —Common-collector small-signal output power

P_{OE} —Common-emitter large-signal output power

p_{oe} —Common-emitter small-signal output power

P_R —Reverse power dissipation, dc (no alternating component)

p_R —Instantaneous total reverse power dissipation

$P_{R(AV)}$—Reverse power dissipation, dc (with alternating component)

P_{RM} —Maximum (peak) total reverse power dissipation
P_T —Total nonreactive power input to all terminals
p_T —Nonreactive power input, instantaneous total, to all terminals
Q_S —Stored charge
r_{BB} —Interbase resistance
$r_b'C_c$ —Collector-base time constant
$r_{CE(sat)}$ —Saturation resistance, collector-to-emitter
$r_{DS(on)}$ —Static drain-source on-state resistance
$r_{ds(on)}$ —Small-signal drain-source on-state resistance
$Re(h_{ie})$ —Real part of common-emitter small-signal short-circuit input impedance
$Re(h_{oe})$ —Real part of common-emitter small-signal open-circuit output admittance
$r_{e1e2(on)}$ —Small-signal emitter-emitter on-state resistance
r_i —Dynamic resistance at inflection point
R_θ —Thermal resistance
$R_{\theta CA}$ —Thermal resistance, case to ambient
$R_{\theta JA}$ —Thermal resistance, junction to ambient
$R_{\theta JC}$ —Thermal resistance, junction to case
S, s —Source
T_A —Ambient temperature or free-air temperature
T_C —Case temperature
t_d —Delay time
$t_{d(off)}$ —Turn-off delay time
$t_{d(on)}$ —Turn-on delay time
t_f —Fall time
t_{fr} —Forward recovery time
T_J —Junction temperature
t_{off} —Turn-off time
t_{on} —Turn-on time
t_p —Pulse time
t_r —Rise time
t_{rr} —Reverse recovery time
t_s —Storage time
TSS —Tangential signal sensitivity
T_{stg} —Storage temperature
t_w —Pulse average time
U, u —Bulk (substrate)
V_{BB} —Base supply voltage (dc)
V_{BC} —Average or dc voltage, base to collector
v_{bc} —Instantaneous value of alternating component of base-collector voltage
V_{BE} —Average or dc voltage, base to emitter
v_{be} —Instantaneous value of alternating component of base-emitter voltage
$V_{(BR)}$ —Breakdown voltage (dc)
$v_{(BR)}$ —Breakdown voltage (instantaneous total)
$V_{(BR)CBO}$ —Collector-base breakdown voltage, emitter open
$V_{(BR)CEO}$ —Collector-emitter breakdown voltage, base open
$V_{(BR)CER}$ —Collector-emitter breakown voltage, resistance between base and emitter
$V_{(BR)CES}$ —Collector-emitter breakdown voltage, base shorted to emitter
$V_{(BR)CEV}$ —Collector-emitter breakdown voltage, specified voltage between base and emitter
$V_{(BR)CEX}$ —Collector-emitter breakdown voltage, specified circuit between base and emitter
$V_{(BR)EBO}$ —Emitter-base breakdown voltage, collector open
$V_{(BR)ECO}$ —Emitter-collector breakdown voltage, base
$V_{(BR)E1E2}$ —Emitter-emitter breakdown voltage
$V_{(BR)GSS}$ —Gate-source breakdown voltage
$V_{(BR)GSSF}$ —Forward gate-source breakdown voltage
$V_{(BR)GSSR}$ —Reverse gate-source breakdown voltage
V_{B2B1} —Interbase voltage
V_{CB} —Average or dc voltage, collector to base
v_{cb} —Instantaneous value of alternating component of collector-base voltage
$V_{CB(fl)}$ —Collector-base dc open-circuit voltage (floating potential)
V_{CBO} —Collector-base voltage, dc, emitter open
V_{CC} —Collector supply voltage (dc)
V_{CE} —Average or dc voltage, collector to emitter
v_{ce} —Instantaneous value of alternating component of collector-emitter voltage
$V_{CE(fl)}$ —Collector-emitter dc open-circuit voltage (floating potential)
V_{CEO} —Collector-emitter voltage (dc), base open
$V_{CE(ofs)}$ —Collector-emitter offset voltage
V_{CER} —Collector-emitter voltage (dc), resistance between base and emitter
V_{CES} —Collector-emitter voltage (dc), base shorted to emitter
$V_{CE(sat)}$ —Collector-emitter dc saturation voltage
V_{CEV} —Collector-emitter voltage (dc), specified voltage between base and emitter
V_{CEX} —Collector-emitter voltage (dc), specified circuit between base and emitter
V_{DD} —Drain supply voltage (dc)
V_{DG} —Drain-gate voltage
V_{DS} —Drain-source voltage
$V_{DS(on)}$ —Drain-source on-state voltage
V_{DU} —Drain-substrate voltage
V_{EB} —Average or dc voltage, emitter to base
v_{eb} —Instantaneous value of alternating component of emitter-base voltage
$V_{EB(fl)}$ —Emitter-base dc open-circuit voltage (floating potential)
V_{EBO} —Emitter-base voltage (dc), collector open
$V_{EB1(sat)}$ —Emitter saturation voltage
V_{EC} —Average or dc voltage, emitter to collector
v_{ec} —Instantaneous value of alternating component of emitter-collector voltage
$V_{EC(fl)}$ —Emitter-collector dc open-circuit voltage (floating potential)
$V_{EC(ofs)}$ —Emitter-collector offset voltage
V_{EE} —Emitter supply voltage (dc)
V_F —For voltage-regulator and voltage-reference diodes: dc forward voltage. For signal diodes and rectifier diodes: dc forward voltage (no alternating component)
V_f —Alternating component of forward voltage (rms value)
v_F —Instantaneous total forward voltage
$V_{F(AV)}$ —Forward voltage, dc (with alternating component)
V_{FM} —Maximum (peak) total forward voltage
$V_{F(RMS)}$ —Total rms forward voltage
V_{GG} —Gate supply voltage (dc)
V_{GS} —Gate-source voltage
V_{GSF} —Forward gate-source voltage
$V_{GS(off)}$ —Gate-source cutoff voltage
V_{GSR} —Reverse gate-source voltage
$V_{GS(th)}$ —Gate-source threshold voltage
V_{GU} —Gate-substrate voltage
V_I —Inflection-point voltage
V_{OB1} —Base-1 peak voltage
V_P —Peak-point voltage
V_{PP} —Projected peak-point voltage
V_R —For voltage-regulator and voltage-reference diodes: dc reverse voltage. For signal diodes and rectifier diodes: dc reverse voltage (no alternating component)
V_r —Alternating component of reverse voltage (rms value)

v_R —Instantaneous total reverse voltage
$V_{R(AV)}$ —Reverse voltage, dc (with alternating component)
V_{RM} —Maximum (peak) total reverse voltage
V_{RRM} —Repetitive peak reverse voltage
$V_{R(RMS)}$—Total rms reverse voltage
V_{RSM} —Nonrepetitive peak reverse voltage
V_{RT} —Reach-through voltage
V_{RWM}—Working peak reverse voltage
V_{SS} —Source supply voltage (dc)
V_{SU} —Source-substrate voltage
$V_{(TO)}$ —Threshold voltage
V_V —Valley-point voltage
V_Z —Regulator voltage, reference voltage (dc)
V_{ZM} —Regulator voltage, reference voltage (dc at maximum rated current)
y_{fb} —Common-base small-signal short-circuit forward transfer admittance
y_{fc} —Common-collector small-signal short-circuit forward transfer admittance
y_{fe} —Common-emitter small-signal short-circuit forward transfer admittance
y_{fs} —Common-source small-signal short-circuit forward transfer admittance
$y_{fs(imag)}$—Common-source small-signal forward transfer susceptance
$y_{fs(real)}$ —Common-source small-signal forward transfer conductance
y_{ib} —Common-base small-signal short-circuit input admittance
y_{ic} —Common-collector small-signal short-circuit input admittance
y_{ie} —Common-emitter small-signal short-circuit input admittance
$y_{ie(imag)}$—Imaginary part of small-signal short-circuit input admittance (common-emitter)
$y_{ie(real)}$ —Real part of small-signal short-circuit input admittance (common-emitter)
y_{is} —Common-source small-signal short-circuit input admittance
$y_{is(imag)}$—Common-source small-signal input susceptance
$y_{is(real)}$—Common-source small-signal input conductance
y_{ob} —Common-base small-signal short-circuit output admittance
y_{oc} —Common-collector small-signal short-circuit output admittance
y_{oe} —Common-emitter small-signal short-circuit output admittance
$y_{oe(imag)}$—Imaginary part of small-signal short-circuit output admittance (common-emitter)
$y_{oe(real)}$ —Real part of small-signal short-circuit output admittance (common-emitter)
y_{os} —Common-source small-signal short-circuit output admittance
$y_{os(imag)}$—Common-source small-signal output susceptance
$y_{os(real)}$ —Common-source small-signal output conductance
y_{rb} —Common-base small-signal short-circuit reverse transfer admittance
y_{rc} —Common-collector small-signal short-circuit reverse transfer admittance
y_{re} —Common-emitter small-signal short-circuit reverse transfer admittance
y_{rs} —Common-source small-signal short-circuit reverse transfer admittance
$y_{rs(imag)}$—Common-source small-signal reverse transfer susceptance
$y_{rs(real)}$ —Common-source small-signal reverse transfer conductance
z_{if} —Intermediate-frequency impedance
z_m —Modulator-frequency load impedance
z_{rf} —Radio-frequency impedance
$Z_{\theta JA(t)}$—Junction-to-ambient transient thermal impedance
$Z_{\theta JC(t)}$—Junction-to-case transient thermal impedance
$Z_{\theta(t)}$ —Transient thermal impedance
z_v —Video impedance
z_z —Regulator impedance, reference impedance (small-signal at I_z)
z_{zk} —Regulator impedance, reference impedance (small-signal at I_{ZK})
z_{zm} —Regulator impedance, reference impedance (small-signal at I_{ZM})

PREFIX AND MANUFACTURER IDENTIFICATION

PREFIX	MANUFACTURER
BA	Rohm
CEX	Control Electronics
DAC	National Semiconductor
FND	Fairchild
FRL	Litronix
ICM	Intersil
LF	National Semiconductor
LM	National Semiconductor
MA	National Semiconductor
MC	Motorola
MJ	Motorola
MM	National Semiconductor, Motorola or Teledyne
MOC	Motorola
MPS	Motorola
MRF	Motorola
MU	Motorola
MV	General Instrument
NE	Signetics
NSM	National Semiconductor
PCIM	PC International
S	American Micro Systems
SAD	Reticon
SE	Signetics
SEL	Sanken
SCS	Spectronics
SLP	Sanyo
SN	Texas Instrument
TA	Toshiba
TIL	Texas Instrument
TIP	Motorola
TLO	Texas Instrument
TL	Texas Instrument
TLG	Toshiba
TLR	Toshiba
VN	Siliconix
XC	Xciton

GENERIC PART NUMBER PREFIX CODE

AD	Analog To Digital
AH	Analog Hybrid
AM	Analog Monolithic
CD	CMOS Digital
DA	Digital To Analog
DM	Digital Monolithic
LF	Linear FET
LH	Linear Hybrid
LM	Linear Monolithic
MM	MOS Monolithic
TBA	Linear Monolithic

ALPHABETICAL/NUMERICAL INDEX

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