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GERMANIUM TRANSISTORS • SILICON TRANSISTORS • UNIJUNCTION TRANSISTORS • DRIFT FIELD TRANSISTORS • FIELD EFFECT TRANSISTORS (J AND MOS) • GERMANIUM DIODES • SILICON RECTIFIERS • LINEAR IC'S • DUAL DIODES • FULL WAVE BRIDGES • ZENER DIODES •

TRIGGER DIODES • THYRISTORS (SCR'S) • TRIACS • DIGITAL IC'S • RF POWER TRANSISTORS • PHOTO TRANSISTORS • LIGHT EMITTING DIODES • TUNING DIODES • ACCESSORIES • BOOKS

OVER 43,000 DEVICES LISTED.

SPRING
1973
EDITION

CROSS-REFERENCE GUIDE AND CATALOG

Distributed by:





CROSS-REFERENCE GUIDE

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This guide has been prepared by the Motorola HEP technical staff to provide a cross-reference for the Hobbyist, Experimenter, and Professional service technician. The information contained herein is based on an analysis of the published specifications of each device listed. This analysis was then compared to HEP specifications and the HEP device that best met or exceeded the important mechanical and electrical characteristics of the original was selected as the replacement. Every care has been taken to meet or exceed published parameters, but because of industry-wide differences in quality control, manufacturing, and testing process, which result in size and characteristic variations, and

because some of the Motorola HEP devices are capable of higher performance than the original, Motorola Semiconductor Products, Inc. cannot guarantee that the listed items will provide an exact replacement in every instance and/or application.

Motorola HEP takes great pride in offering the most complete line of semiconductor devices appealing to the hobbyist-experimenter and replacement markets. All of the HEP devices feature complete published specifications, which will allow the safe "design" of circuits in a manner that will assure maximum device capabilities, as well as determining if the device is operating within its limits.

IMPORTANT TIPS On Using Semiconductors

Each Motorola HEP device will give excellent performance when operated within its published specifications, however, due to the very nature of the term "replacement" there are certain aspects that require consideration when making substitutions. In the greatest majority of cases it will be found that direct replacement can be made, requiring no circuit or mechanical changes. Occasionally the "stubborn" circuit will appear, where other components have changed value, or the original design was extremely critical. With these thoughts in mind, the following application tips are presented:

NOTE: Many device numbers will be followed by a color notation (black, red, brown, etc.). This notation references either a color dot or the color of the ink used on the device.

Low-power Transistors – Lead configuration may differ; check original and replacement devices to be sure that collector, emitter, and base lead connections are correct. In most cases, fourth lead (shield) can be cut off and eliminated. Current and voltages must be checked, being certain not to exceed device ratings. Occasionally resistance values will have to be changed in order to achieve correct biasing. Tuned circuits may require realignment.

High-power Transistors – Make certain that voltage and current ratings are not exceeded. Adjust bias resistance to obtain optimum performance (many circuits use a small potentiometer for this purpose). Check all circuit components (resistors, coils, etc.) that might have been damaged if the original transistor was shorted. In most auto radio

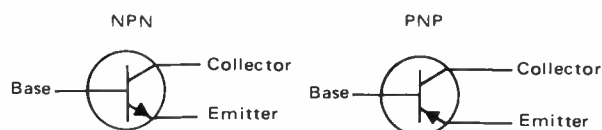
output stages, check emitter resistor (replacement transistor will be permanently damaged if this resistor is defective).

In order to assure maximum power dissipation, adequate heat-sinking must be provided. Also, contact surfaces should be coated with high-quality silicon grease. (Refer to HEP accessory list for each of these items.)

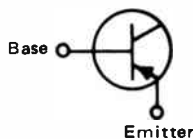
CAUTION: When replacing high power horizontal and vertical output transistors make certain that preceding driver stages are functioning properly. Malfunction of these driver stages (as well as output stage circuitry) is often cause for failure of output devices, and replacements can be destroyed if this condition exists.

General Transistor Replacement Considerations – Frequently special-numbered transistors, that are not listed in any cross-reference guide, will be encountered. In most cases, a suitable replacement can be determined by following a few simple procedures.

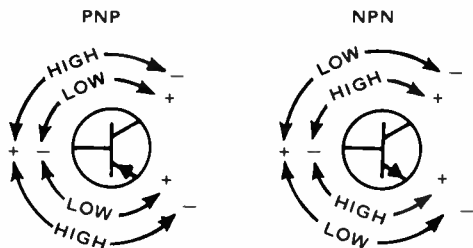
1. **NPN or PNP** – Schematic symbol will indicate device polarity (note symbols below). Arrow always points away from base and collector when device is NPN, and arrow always points toward base and collector when device is PNP.



If schematic symbol is not available, polarity can be determined in following manner: With circuit energized, connect negative lead of voltmeter to emitter and measure voltage to base. If voltage reading is Positive, transistor is NPN; if voltage reading is Negative, transistor is PNP.

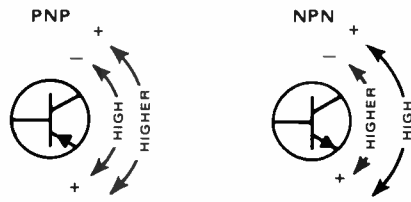


Polarity can also be determined in following manner using an ohmmeter. Note: For this test, + and - of ohmmeter probes *must* be known and connected as indicated in following illustrations.



2. **Germanium or Silicon** – Measure voltage from emitter to base. If voltage is approximately 0.25 volt, transistor is germanium. If voltage is approximately 0.6 volt, transistor is silicon.

Also, an ohmmeter can be used for this test in following manner:



Germanium – will give meter reading
Silicon – will be very high (several megohms) to infinity.

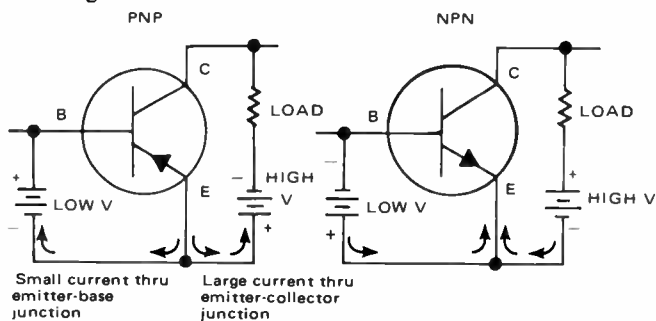
3. **Operating Voltage Considerations** – Voltages from collector to base, collector to emitter, and emitter to base should be noted from either schematic or by actual measurement with voltmeter. Device selected for replacement should have voltage ratings of at least three to four times actual operating voltages for each of three categories. This type of safety factor is necessary to protect against voltage spikes, transients, and surges that are inherent in most circuits.

4. **Collector Current Requirements** – This factor is rarely noted on schematics, however, a meter can be easily connected in series with collector and actual current requirements can be determined. Again, a safety factor of at least three to four times measured current should be used. This measurement must be made during maximum-power conditions.

5. **Gain Considerations** – Due to complex scope of this subject only one gain parameter will be considered. This parameter is common-emitter small-signal dc current gain, referred to as h_{FE} , beta, or β . From standpoint of

common applications, following general rules should be used as guideline. High gain devices (h_{FE} from 300 up) will find usage in preamps, RF stages, and converters. Medium gain devices (h_{FE} from 100 to 300) will find usage in RF and IF stages, oscillators, mixers, drivers, etc. Low gain devices (h_{FE} up to 100) will find usage in output stages, AGC, drivers, video amplifiers, etc.

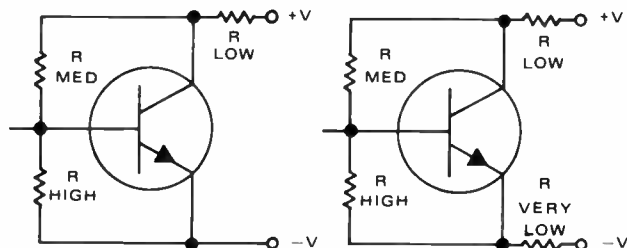
6. **Transistor Biasing** – Occasionally bias resistor(s) may have to be changed in order to achieve proper circuit operation. Following two diagrams are intended to show typical PNP and NPN circuit current flow and biasing voltages:



Small current thru emitter-base junction
Large current thru emitter-collector junction

(Note that only difference is reversed battery polarity and opposite direction current flow)

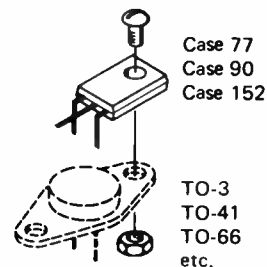
Following two diagrams indicate typical circuit resistances that may need to be altered in order to achieve optimum circuit operation.



Different Case Styles – Frequently there is quite a difference between case style of original part and recommended replacement. However, in most instances, this problem can be solved in following manner:

TO-5, TO-39, and similar case styles can be easily replaced with HEP devices that use case 152 by merely reforming leads to correct pattern. TO-3, TO-41, TO-66, and similar case styles can be easily replaced with HEP devices that use case 77, case 90, or case 152 by reforming leads and using only one of

original mounting holes for attachment. Since collector of each of these devices is connected to metal tab, electrical isolation *must* conform to original device. Silicon grease should always be used with power devices to promote heat dissipation.



Silicon Rectifiers – Make certain that polarity is correct and that voltage and current ratings of replacement device(s) are not exceeded. Additional current can be handled by using two diodes in parallel, and additional peak inverse voltage can be obtained by connecting diodes in series. For replacement devices, make certain that PIV and I_C are at least 3 to 4 times normal circuit operating conditions.

Rectifier and diode polarity can easily be determined by using an ohmmeter. Note: for this test, + and – of ohmmeter probes *must* be known and connected as indicated in following illustrations.



Replacing Selenium, Metal-Oxide, or Vacuum Tube Rectifiers – Silicon rectifiers are much more efficient than other types of power rectifiers and do not become weaker with continued usage. In other words they are either good or they are bad. Due to increased efficiency, however, it is recommended that a 10 watt resistor be placed in series with B+ line to limit output voltage to required level. Resistance value may be determined experimentally or from equation $R = E/I$ where E is dc voltage to be dropped and I is total dc current through circuit.

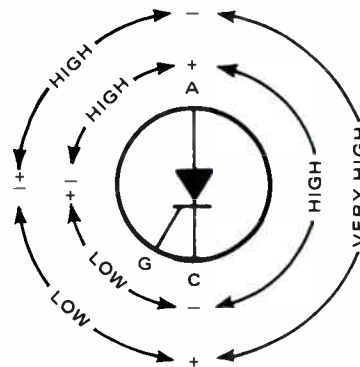
Zener Diodes – Optimum zener operation will result when specified I_{ZT} is maintained during normal circuit conditions. Zener diodes may be connected in series to increase zener voltage (6.2, 9.1, and 12.0 volt diodes in series would result in 25.3 final zener voltage, plus or minus device tolerances). Zener diode polarity can be determined in same manner as Silicon Rectifiers (above).

Silicon Dual Diodes – Excellent performance and customer satisfaction can be obtained by replacing weak or defective selenium or diode vacuum tubes with silicon devices. Leads may be formed to proper shape and plugged directly into original tube socket holes. (Leads may be bent and twisted to assure good electrical contact, soldering these in place is best procedure.)

Thyristors (SCR's) and Triacs – Most important characteristics, from replacement standpoint, would include Peak Reverse Voltage (V_{RM}), Forward Current (I_f), and Gate Trigger Current (sensitivity) (I_{GT}). V_{RM} and I_f *must* exceed normal operating conditions. If replacement device does not trigger under normal conditions it is possible that I_{GT} (sensitivity) is too high. If replacement device triggers prematurely it is possible that I_{GT} is too low.

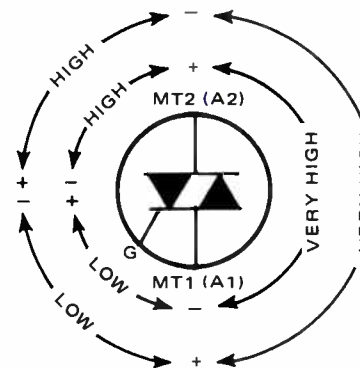
Polarity, or terminal identification, of a Thyristor or Triac can be determined by an ohmmeter as follows: Note – for this test, + and – of ohmmeter probes *must* be known and connected as indicated:

THYRISTOR (SCR)



Nomenclature
 SCR = Silicon Controlled Rectifier
 A = Anode
 C = Cathode
 G = Gate

TRIAC



Nomenclature
 MT1 = Main Terminal 1 (formerly referred to as Anode 1)
 MT2 = Main Terminal 2 (formerly referred to as Anode 2)
 G = Gate

HEP Semiconductor Description and Packaging Index

Dimensions and Outline Drawings for all Cases Referenced in the Following Chart are shown on Pages 10, 11, and 12

HEP NO.	CASE STYLE	DESCRIPTION
1	TO-18	Ge RF Transistor—PNP—100MHz 150mW
2	TO-5(A)	Ge RF Transistor—PNP—750MHz 300mW
3	TO-72(C)	Ge RF Transistor—PNP—250MHz 100mW
50	TO-18	Si RF Transistor—NPN—250MHz 400mW
51	TO-5(A)	Si RF Transistor—PNP—150MHz 600mW
52	TO-18	Si RF Transistor—PNP—200MHz 400mW
53	TO-5(A)	Si RF Transistor—NPN—200MHz 600mW
54	TO-92(A)	Si RF Transistor—NPN—30MHz 310mW
55	TO-92(A)	Si RF Transistor—NPN—200MHz 310mW
56	TO-92(B)	Si UHF Oscillator—NPN—750MHz 310mW
57	TO-92(A)	Si RF Transistor—PNP—200MHz 310mW
75	TO-39	Si RF Power Transistor—NPN—250MHz 3W
76	TO-39	Si RF Power Transistor—PNP—250MHz 3W
101	DO-7	Zener Diode—10V 400mW
102	DO-41	Zener Diode—3.6V 1W
103	DO-41	Zener Diode—6.2V 1W
104	DO-41	Zener Diode—9.1V 1W
105	DO-41	Zener Diode—12V 1W
134	TO-18A	Ge Diode (1N34A Substitute)
135	TO-18A	Ge Diode (1N60 Substitute)
151	DO-5	Si Power Rectifier—Stud—50PIV 15Amp
153	DO-5	Si Power Rectifier—Stud—200PIV 15Amp
154	DO-41	Si Rectifier—Axial Lead—50PIV 1Amp
156	DO-41	Si Rectifier—Axial Lead—200PIV 1Amp
157	DO-41	Si Rectifier—Axial Lead—400PIV 1Amp
158	DO-41	Si Rectifier—Axial Lead—600PIV 1Amp
159	DO-41	Si Rectifier—Axial Lead—800PIV 1Amp
160	DO-41	Si Rectifier—Axial Lead—1000PIV 1Amp
161	Case 60	Si "Top Hat" Rectifier—50PIV 3Amp
162	Case 60	Si "Top Hat" Rectifier—200PIV 3Amp
165	TO-92(C)	Si Dual Diode—Common Cathode
166	TO-92(D)	Si Dual Diode—Common Anode
170	DO-41	Si Rectifier—Axial Lead—1000PIV 2.5Amp
175	Case 108	Full Wave Bridge Rectifier—50PIV 1Amp
176	Case 108	Full Wave Bridge Rectifier—200PIV 1Amp
177	Case 108	Full Wave Bridge Rectifier—400PIV 1Amp
178	Case 108	Full Wave Bridge Rectifier—600PIV 1Amp
200	TO-3	Ge Power Transistor—PNP—TO-3—3Amp 90Watt
230	TO-3	Ge Power Transistor—PNP—TO-3—5Amp 90Watt
231	TO-36	Ge Power Transistor—PNP—TO-36—15Amp 150Watt
232	TO-3	Ge Power Transistor—PNP—TO-3—7A 90W
233	TO-36	Ge Power Transistor—PNP—TO-36—15Amp 170Watt
234	TO-3	Ge High Voltage Pwr Transistor—PNP—200V 5A 56W
235	TO-3	Ge High Voltage Pwr Transistor—PNP—320V 10A 56W
236	TO-41	Ge High Current Pwr Transistor—PNP—110V 25A 106W
237	TO-36	Ge High Current Pwr Transistor—PNP—75V 30A 170W
238	TO-5(A)*	Ge General Purpose Power Transistor—PNP—60V 3A
239	TO-5(A)*	Ge General Purpose Power Transistor—PNP—100V 3A
240	TO-66	Si Power Transistor—NPN—300V 500mA 10W
241	TO-66	Si High Power Transistor—NPN—160V 5A 40W
242	TO-5(A)*	Si Med Power Transistor—PNP—60V 3A 6W (Comp. to 243)
243	TO-5(A)*	Si Med Power Transistor—NPN—60V 3A 6W (Comp. to 242)
244	Case 77(A)	Si High Voltage Pwr Transistor—NPN—300V 500mA 25W
245	Case 77(A)	Si Med Power Transistor—NPN—60V 3A 30W (Comp. to 246)
246	Case 77(A)	Si Med Power Transistor—PNP—60V 3A 30W (Comp. to 245)

HEP NO.	CASE STYLE	DESCRIPTION
247	TO-3	Si High Power Transistor—NPN—70V 10A 150W (Comp. to 248)
248	TO-3	Si High Power Transistor—PNP—70V 10A 150W (Comp. to 247)
250	TO-5(A)	Ge General Purpose Transistor—PNP—Med. Gain 200mW
251	TO-5(A)	Ge General Purpose Transistor—PNP—Hi Gain—200mW
252	TO-5(A)	Ge General Purpose Transistor—PNP—Low Leakage—200mW
253	TO-5(A)**	Ge General Purpose Transistor—PNP—Med. Gain—225mW
254	TO-5(A)**	Ge General Purpose Transistor—PNP—Med. Gain—225mW
300	Case 86(A)	Thyristor (SCR)—50V 5Amp
302	Case 86(A)	Thyristor (SCR)—200V 5Amp
304	Case 92	Thyristor (SCR)—50V 15Amp
305	Case 92	Thyristor (SCR) Reverse Polarity—50V 15Amp
306	Case 92	Thyristor (SCR)—200V 15 Amp
307	Case 92	Thyristor (SCR) Reverse Polarity—200V 15Amp
310	TO-92(J)	Si Unijunction Transistor—300mW
311	TO-92A(B)	Si Bilateral Trigger Diode
312	Case 171(A)	Si Photo Transistor
320	TO-92(G)	Thyristor (SCR)—30V 800mA
340	Case 86(B)	Triac—200V 8A
553	Case 71	IC—ECL—Half Adder
554	Case 71	IC—ECL—Bias Driver
556	Case 71	IC—ECL—3 Input Gate
558	Case 71	IC—ECL—J-K Flip-Flop
570	TO-116	IC—RTL—Quad 2-Input Gate
571	TO-116	IC—RTL—Dual Buffer
572	TO-116	IC—RTL—Dual J-K Flip-Flop
573	TO-116	IC—RTL—Hex Inverter
580	TO-99	IC—RTL—Dual 2-Input Gate
581	TO-99	IC—RTL—Dual 4-Input Gate
582	TO-99	IC—RTL—Dual Buffer
583	TO-99	IC—RTL—J-K Flip-Flop
584	TO-99	IC—RTL—Dual 2-Input Gate (Med. Power)
590	Case 71	IC—Linear—High Frequency Amplifier
591	Case 71 A	IC—Linear—Wide Band Amplifier/ Discriminator
592	Case 71	IC—Linear—Stereo Preamplifier
593	Case 71	IC—Linear—1 Watt Audio Power Amplifier
594	TO-116	IC—Linear—FM Stereo Demodulator
595	TO-116	IC—Linear—FM Stereo Demodulator
600	DO-21	Silicon Press-Fit Rectifier (Cathode to Case)
601	DO-21	Silicon Press-Fit Rectifier (Anode to Case)
602	DO-41	4.7 Volt Zener Diode 1 Watt
603	DO-41	5.6 Volt Zener Diode 1 Watt
604	DO-41	11.0 Volt Zener Diode 1 Watt
605	DO-41	13.0 Volt Zener Diode 1 Watt
606	DO-41	14.0 Volt Zener Diode 1 Watt
607	DO-41	15.0 Volt Zener Diode 1 Watt
608	DO-41	27.0 Volt Zener Diode 1 Watt
609	DO-41	33.0 Volt Zener Diode 1 Watt
610	DO-41	56.0 Volt Zener Diode 1 Watt
611	DO-41	62.0 Volt Zener Diode 1 Watt
612	DO-41	82.0 Volt Zener Diode 1 Watt
613	DO-41	110 Volt Zener Diode 1 Watt
620	Case 85	Thyristor (SCR)—400V 8Amp
621	Case 87L	Thyristor (SCR)—400V 8Amp
622	Case 90(A)	Thyristor (SCR)—400V 8Amp
623	TO-3	Ge General Purpose Audio Power Amplifier—PNP
624	TO-3	Ge General Purpose Audio Power Amplifier—PNP
625	TO-3	Ge General Purpose Audio Power Amplifier—PNP
626	TO-3	Ge General Purpose Audio Power Amplifier—PNP

HEP Semiconductor Description and Packaging Index

HEP NO.	CASE STYLE	DESCRIPTION	HEP NO.	CASE STYLE	DESCRIPTION
627	TO-3	Ge General Purpose Audio Power Amplifier—PNP	733	TO-92(A)	Si General Purpose Audio Amplifier—NPN
628	TO-3	Ge General Purpose Audio Power Amplifier—PNP	734	TO-92(B)	Si General Purpose Audio Amplifier—NPN
629	TO-5(A)	Ge General Purpose Audio Amplifier—PNP	735	TO-92(A)	Si General Purpose Audio Amplifier—NPN
630	TO-5(A)	Ge General Purpose Audio Amplifier—PNP	736	TO-92(A)	Si General Purpose Audio Amplifier—NPN
631	TO-5(A)	Ge General Purpose Audio Amplifier—PNP	737	TO-92(A)	Si General Purpose Audio Amplifier—NPN
632	TO-5(A)	Ge General Purpose Audio Amplifier—PNP	738	TO-92(A)	Si General Purpose Audio Amplifier—NPN
633	TO-5(A)	Ge General Purpose Audio Amplifier—PNP	739	TO-92(A)	Si 2N404 (Germanium) Replacement—PNP
634	TO-5(A)	Ge General Purpose Audio Amplifier—PNP	740	TO-3	Si High Voltage High Power—NPN— (700 Volts 3.5 Amp)
635	TO-5(A)	Ge General Purpose RF—PNP	801	TO-72(A)	Field Effect Transistor—Audio—N Channel
636	TO-18*	Ge General Purpose RF—PNP	802	TO-92(E)	Field Effect Transistor—RF—N Channel
637	TO-72(C)	Ge General Purpose RF—PNP	803	TO-72(D)	Field Effect Transistor—Audio/ RF—P Channel
638	TO-5(A)*	Ge General Purpose Drift-Field—PNP	C0900P	TO-116	IC—HTL—Dual 4-Input Line Driver
639	TO-18	Ge General Purpose Drift-Field—PNP	C0901P	TO-116	IC—HTL—Dual J-K Flip-Flop
640	TO-18	Ge General Purpose Drift-Field—PNP	C0902P	TO-116	IC—HTL—Dual 2-Input NAND Gate
641	TO-18	Ge General Purpose RF and Audio Amplifier—NPN	C0903P	TO-116	IC—HTL—Dual 4-Input Expander
642	TO-66	Ge General Purpose Audio Power Amplifier—PNP	C0904P	TO-116	IC—HTL—Triple 3-Input NAND Gate
643	TO-66	Ge General Purpose Audio Power Amplifier—PNP	C0905P	TO-116	IC—HTL—Dual 4-Input NAND Gate
644	TO-3	Ge High Voltage Pwr Transistor—PNP— 160V 10A 85W	C0906P	TO-116	IC—HTL—Master-Slave R-S Flip-Flop
700	Case 77(A)	Si General Purpose Audio Power Amplifier—PNP	C0907P	TO-116	IC—HTL—Quad Latch
701	Case 77(A)	Si General Purpose Audio Power Amplifier—NPN	C0908P	TO-116	IC—HTL—Hex Inverter
702	TO-66	Si General Purpose Audio Power Amplifier—PNP	C0909P	TO-116	IC—HTL—Quad 2-Input NAND Gate
703	TO-66	Si General Purpose Audio Power Amplifier—NPN	C0910P	TO-116	IC—HTL—Triple Level Translator
704	TO-3	Si General Purpose Audio Power Amplifier—NPN	C0911P	TO-116	IC—HTL—Dual Monostable Multivibrator
705	TO-3	Si General Purpose Audio Power Amplifier—PNP	C0912P	TO-116	IC—HTL—Dual 2-Wide 2-Input AND-OR- INVERT Gate
706	TO-39	Si General Purpose Audio Power Amplifier—NPN	C1030P	TO-116	IC—DTL—Dual 4-Input NAND Gate
707	TO-3	Si High Voltage High Power—NPN— (400 Volts 10 Amp)	C1032P	TO-116	IC—DTL—Dual 4-Input Buffer
708	TO-18	Si Low Power RF Amplifier—PNP	C1033P	TO-116	IC—DTL—Dual 4-Input Expander
709	TO-72(C)	Si UHF Oscillator, Mixer, RF Amplifier— NPN	C1035P	TO-116	IC—DTL—Hex Inverter (no pullup resistors)
710	TO-5(A)*	Si Low Frequency RF and Audio Amplifier— PNP	C1036P	TO-116	IC—DTL—Hex Inverter (with pullup resistors)
712	TO-5(A)*	Si Low Frequency Oscillator, Mixer, RF Amplifier—NPN	C1038P	TO-116	IC—DTL—Decade Counter
713	TO-5(A)*	Si Low Frequency Oscillator, Mixer, RF Amplifier—NPN	C1039P	TO-116	IC—DTL—Divide-By-Sixteen Counter
714	Case 152	Si High Voltage Audio Amplifier—NPN	C1044P	TO-116	IC—DTL—Dual 4-Input NAND Power Gate
715	TO-92(A)	Si General Purpose Low Frequency RF and Audio Amp—PNP	C1045P	TO-116	IC—DTL—Clocked Flip-Flop
716	TO-92(A)	Si General Purpose Medium Current Amplifier and Switch—PNP	C1046P	TO-116	IC—DTL—Quad 2-Input NAND Power Gate
717	TO-92(A)	Si Low Noise Audio Amplifier—PNP	C1052P	TO-116	IC—DTL—Dual J-K Flip-Flop
718	TO-92(A)	Si VHF/UHF Oscillator, Mixer, RF Amplifier—NPN	C1053P	TO-116	IC—DTL—Dual J-K Flip-Flop
719	TO-92(A)	Si VHF/UHF Oscillator, Mixer, RF Amplifier—NPN	C1057P	TO-116	IC—DTL—Quad 2-Input NAND Buffer
720	TO-92(A)	Si VHF/UHF Oscillator, Mixer, RF Amplifier—NPN	C1058P	TO-116	IC—DTL—Quad 2-Input NAND Power Gate
721	TO-92(A)	Si General Purpose Audio Amplifier—NPN	C1062P	TO-116	IC—DTL—Triple 3-Input NAND Gate
722	TO-92(A)	Si General Purpose Audio Amplifier—NPN	C2001P	TO-116	IC—RTL—Quad 2-Input Expander
723	TO-92(A)	Si General Purpose Audio Amplifier—NPN	C2002P	TO-116	IC—RTL—Dual Buffer
724	TO-92(A)	Si General Purpose Audio Amplifier—NPN	C2500P	TO-116	IC—RTL—Dual 4-Input Expander
725	TO-92(A)	Si General Purpose Audio Amplifier—NPN	C2501P	Case 612	IC—RTL—BCD-to-Decimal Decoder
726	TO-92(A)	Si General Purpose Audio Amplifier—NPN	C2502P	TO-116	IC—RTL—Quad 2-Input NOR Gate
727	TO-92(A)	Si General Purpose Audio Amplifier—NPN	C2503P	TO-116	IC—RTL—Multifunction Device (1 J-K Flip-Flop, 1 Inverter, 2 Buffers)
728	TO-92(A)	Si General Purpose Audio Amplifier—NPN	C3000P	TO-116	IC—TTL—Quad 2-Input NAND Gate
729	TO-92(A)	Si General Purpose Audio Amplifier—NPN	C3001P	TO-116	IC—TTL—Quad 2-Input NAND Gate (direct output)
730	TO-92(A)	Si General Purpose Audio Amplifier—NPN	C3002P	TO-116	IC—TTL—Quad 2-Input NOR Gate
731	TO-92(A)	Si General Purpose Audio Amplifier—NPN	C3004P	TO-116	IC—TTL—Hex Inverter
732	TO-92(A)	Si General Purpose Audio Amplifier—NPN	C3010P	TO-116	IC—TTL—Triple 3-Input NAND Gate
			C3020P	TO-116	IC—TTL—Dual 4-Input NAND Gate
			C3030P	TO-116	IC—TTL—8-Input NAND Gate
			C3040P	TO-116	IC—TTL—Dual 4-Input NAND Buffer
			C3041P	Case 612	IC—TTL—BCD-to-Decimal Decoder and High-Level Driver
			C3050P	TO-116	IC—TTL—Dual 2-Wide 2-Input AND-OR- INVERT Gate
			C3073P	TO-116	IC—TTL—Dual J-K Flip-Flop
			C3075P	Case 612	IC—TTL—Quad Latch
			C3400P	TO-116	IC—ECL—85-MHz J-K Flip-Flop
			C3401P	TO-116	IC—ECL—120-MHz J-K Flip-Flop
			C3800P	TO-116	IC—TTL—Decade Counter
			C3801P	TO-116	IC—TTL—Divide-By-Twelve Counter
			C3802P	Case 612	IC—TTL—Seven-Segment Character Generator
			C3803P	TO-116	IC—TTL—Retriggerable Monostable Multivibrator

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HEP NO.	CASE STYLE	DESCRIPTION
C3805P	TO-116	IC—TTL—Dual Voltage-Controlled Multivibrator
C3806P	TO-116	IC—TTL—Phase-Frequency Detector
C6001	Case 643A	IC—Linear—FM IF Amplifier (Replacement for μ A703 or CA3053)
C6002	Case 644A	IC—Linear—Low-Noise Audio Preamplifier
C6003	Case 206A	IC—Linear— $\frac{1}{2}$ -Watt Audio Amplifier
C6004	Case 644A	IC—Linear—1-Watt Audio Amplifier and Preamp
C6007	Case 206A	IC—Linear—Single Toggle Flip-Flop
C6008	Case 643A	IC—Linear—1-Watt Audio Amplifier and Preamp
C6009	Case 643A	IC—Linear—Electronic Remote-Control Attenuator
C6010	Case 206A	IC—Linear—Wide-Band Amplifier
C6011	Case 643A	IC—Digital—Dual-Toggle Flip-Flop
C6012	Case 643A	IC—Linear—Voltage Regulator
C6013	Case 206A	IC—Linear—Class A Audio Driver
C6014	Case 206A	IC—Linear—Voltage Regulator
C6015	Case 643A	IC—Digital—Dual-Toggle Flip-Flop with Reset
C6016	Case 644A	IC—Linear—Class B Audio Driver
C6017	Case 644A	IC—Linear—Differential/Cascode Amplifier
C6018	Case 206A	IC—Linear—Audio Driver
C6049G	Case 602A	IC—Linear—Voltage Regulator (Positive)
C6049R	Case 614	IC—Linear—Voltage Regulator (Positive)
C6050G	Case 602A	IC—Linear—Balanced Modulator/Demodulator
C6051L	TO-116	IC—Linear—Dual Operational Amplifier
C6052P	Case 626	IC—Linear—Operational Amplifier
C6053G	TO-99	IC—Linear—Operational Amplifier
C6053L	TO-116	IC—Linear—Operational Amplifier
C6054G	Case 602A	IC—Linear—Voltage Regulator (Negative)
C6054R	Case 614	IC—Linear—Voltage Regulator (Negative)
C6055L	TO-116	IC—Linear—Stereo Preamplifier
C6056P	TO-116	IC—Linear—FM Multiplex Stereo Demodulator
C6057P	TO-116	IC—Linear—Dual Balanced Chroma Demodulator
C6059P	Case 626	IC—Linear—IF and AGC Amplifier
C6060P	TO-116	IC—Linear—TV FM Limiting Amplifier, Detector, Preamp, and Driver
C6061P	TO-116	IC—Linear—High-Gain FM/IF Amplifier
C6062P	TO-116	IC—Linear—FM/IF Amplifier with Quadrature Detector
C6063P	TO-116	IC—Linear—FM/IF Amplifier, Limiter, Detector, Driver, Electronic Attenuator
C6064P	Case 627	IC—Linear—Class A Audio Driver
C6065P	Case 647	IC—Linear—FM Multiplex Stereo Demodulator
C6066P	TO-116	IC—Linear—Chroma Demodulator
C6067G	TO-100	IC—Linear—Dual Doubly Balanced Chroma Demodulator
C6069G	Case 686	IC—Linear—AFT/Amplifier/Detector/Driver
C6070P	Case 648	IC—Linear—Subcarrier Regenerator
C6071P	TO-116	IC—Linear—Chroma Amplifier
C6072P	TO-116	IC—Linear—Balanced Chroma Demodulator
C6073P	Case 656	IC—Linear—2-Watt Audio Amplifier
C6074P	Case 647	IC—Linear—FM Multiplex Stereo Demodulator
C6075P	TO-116	IC—Linear—TV Color Processing Circuit
C6076P	TO-116	IC—Linear—Video IF Amplifier and AGC
C6077P	TO-116	IC—Linear—TV Color Processing Circuit
C6078R	Case 614	IC—Linear—Power Booster
C6079P	Case 626	IC—Linear—Video Detector
C6080P	TO-116	IC—Linear—Low-Noise Stereo Preamplifier
C6081P	TO-116	IC—Linear—TV Color Processing Circuit
C6082P	Case 647	IC—Linear—IF Amplifier and Quadrature Detector
C6083P	Case 647	IC—Linear—IF Amp/Limiter/FM Detector/Driver/Attenuator
C6085P	Case 612	IC—Linear—TV Color Signal Processor
C6087P	TO-116	IC—Linear—Low-Noise Stereo Preamplifier

HEP NO.	CASE STYLE	DESCRIPTION
F0021	TO-92(E)	Field Effect Transistor—VHF/UHF—N-Channel
F1035	TO-92(F)	Field Effect Transistor—RF—P-Channel
F2004	TO-72(B)	MOS FET—Dual Gate—VHF—N-Channel
F2005	TO-72(A)	MOS FET—VHF/UHF—N-Channel
F2007	Case 206	MOS FET—Dual Gate—N-Channel
G6001	TO-3	Ge High Current Pwr Transistor—PNP—90V 25A 85W
G6002	TO-36	Ge High Current Pwr Transistor—PNP—40V 65A 170W
P0001	Case 82	Si Phototransistor—NPN
P0002	Case 173	Si Phototransistor
P1001	TO-92(L)	Si Darlington Amplifier Phototransistor—NPN
P2000	Case 171(B)	Light-Emitting Diode
P2001	Case 234-02	Light-Emitting Diode
P2002	Case 171(B)	Infrared-Emitting Diode
P2003	Case 171(B)	Light-Emitting Diode
P2004	Case 234-02	Light-Emitting Diode (Diffused Lens)
R0050	DO-41	Silicon Rectifier, Axial Lead, 50PIV 1Amp
R0051	DO-41	Silicon Rectifier, Axial Lead, 100PIV 1Amp
R0052	DO-41	Silicon Rectifier, Axial Lead, 200PIV 1Amp
R0053	DO-41	Silicon Rectifier, Axial Lead, 400PIV 1Amp
R0054	DO-41	Silicon Rectifier, Axial Lead, 600PIV 1Amp
R0055	DO-41	Silicon Rectifier, Axial Lead, 800PIV 1Amp
R0056	DO-41	Silicon Rectifier, Axial Lead, 1000PIV 1Amp
R0080	Case 70	Si Press-Fit Rectifier—50PIV 3A
R0081	Case 70	Si Press-Fit Rectifier—100PIV 3A
R0082	Case 70	Si Press-Fit Rectifier—200PIV 3A
R0084	Case 70	Si Press-Fit Rectifier—400PIV 3A
R0086	Case 70	Si Press-Fit Rectifier—600PIV 3A
R0090	Case 60	Si "Top Hat" Rectifier—50PIV 3A
R0091	Case 60	Si "Top Hat" Rectifier—100PIV 3A
R0092	Case 60	Si "Top Hat" Rectifier—200PIV 3A
R0094	Case 60	Si "Top Hat" Rectifier—400PIV 3A
R0096	Case 60	Si "Top Hat" Rectifier—600PIV 3A
R0097	Case 60	Si "Top Hat" Rectifier—800PIV 3A
R0098	Case 60	Si "Top Hat" Rectifier—1000PIV 3A
R0100	Case 194	Si "Axial Lead" Rectifier—50PIV 6A
R0101	Case 194	Si "Axial Lead" Rectifier—100PIV 6A
R0102	Case 194	Si "Axial Lead" Rectifier—200PIV 6A
R0104	Case 194	Si "Axial Lead" Rectifier—400PIV 6A
R0106	Case 194	Si "Axial Lead" Rectifier—600PIV 6A
R0130	DO-4(A)†	Si Stud Mount Rectifier—50PIV 12A
R0131	DO-4(A)†	Si Stud Mount Rectifier—100PIV 12A
R0132	DO-4(A)†	Si Stud Mount Rectifier—200PIV 12A
R0134	DO-4(A)†	Si Stud Mount Rectifier—400PIV 12A
R0136	DO-4(A)†	Si Stud Mount Rectifier—600PIV 12A
R0137	DO-4(A)†	Si Stud Mount Rectifier—800PIV 12A
R0138	DO-4(A)†	Si Stud Mount Rectifier—1000PIV 12A
R0160	DO-5†	Si Stud Mount Rectifier—50PIV 15A
R0161	DO-5†	Si Stud Mount Rectifier—100PIV 15A
R0162	DO-5†	Si Stud Mount Rectifier—200PIV 15A
R0164	DO-5†	Si Stud Mount Rectifier—400PIV 15A
R0166	DO-5†	Si Stud Mount Rectifier—600PIV 15A
R0220	DO-21†	Si Press-Fit Rectifier—50PIV 25A
R0222	DO-21†	Si Press-Fit Rectifier—200PIV 25A
R0250	DO-5†	Si Stud Mount Rectifier—50PIV 35A
R0251	DO-5†	Si Stud Mount Rectifier—100PIV 35A
R0253	DO-5†	Si Stud Mount Rectifier—200PIV 35A
R0254	DO-5†	Si Stud Mount Rectifier—300PIV 35A
R0255	DO-5†	Si Stud Mount Rectifier—400PIV 35A
R0256	DO-5†	Si Stud Mount Rectifier—500PIV 35A
R0257	DO-5†	Si Stud Mount Rectifier—600PIV 35A
R0600	DO-41	Si Fast Recovery Rectifier, 50PIV 1Amp
R0602	DO-41	Si Fast Recovery Rectifier, 200PIV 1Amp
R0604	DO-41	Si Fast Recovery Rectifier, 400PIV 1Amp

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HEP NO.	CASE STYLE	DESCRIPTION
R0700	TO-92A	Si UHF Diode (Hot-Carrier)
R0841	Case 216	Full-Wave Bridge Rectifier, 50Volt 1.8Amp
R0842	Case 216	Full-Wave Bridge Rectifier, 100Volt 1.8Amp
R0843	Case 216	Full-Wave Bridge Rectifier, 200Volt 1.8Amp
R0845	Case 216	Full-Wave Bridge Rectifier, 400Volt 1.8Amp
R0846	Case 216	Full-Wave Bridge Rectifier, 600Volt 1.8Amp
R0875	Case 179-01	Full-Wave Bridge Rectifier, 50Volt 12Amp
R0876	Case 179-01	Full-Wave Bridge Rectifier, 100Volt 12Amp
R0877	Case 179-01	Full-Wave Bridge Rectifier, 200Volt 12Amp
R0878	Case 179-01	Full-Wave Bridge Rectifier, 400Volt 12Amp
R0879	Case 179-01	Full-Wave Bridge Rectifier, 600Volt 12Amp
R0880	Case 179-02	Full-Wave Bridge Rectifier, 50Volt 27Amp
R0881	Case 179-02	Full-Wave Bridge Rectifier, 100Volt 27Amp
R0882	Case 179-02	Full-Wave Bridge Rectifier, 200Volt 27Amp
R0883	Case 179-02	Full-Wave Bridge Rectifier, 400Volt 27Amp
R0884	Case 179-02	Full-Wave Bridge Rectifier, 600Volt 27Amp
R1001	TO-92(G)	Thyristor (SCR)—30V 800mA
R1002	TO-92(G)	Thyristor (SCR)—60V 800mA
R1003	TO-92(G)	Thyristor (SCR)—100V 800mA
R1004	TO-92(G)	Thyristor (SCR)—150V 800mA
R1005	TO-92(G)	Thyristor (SCR)—200V 800mA
R1101	TO-5(B)	Thyristor (SCR)—50Volt 1.6Amp
R1102	TO-5(B)	Thyristor (SCR)—100Volt 1.6Amp
R1103	TO-5(B)	Thyristor (SCR)—200Volt 1.6Amp
R1215	Case 77(B)	Sensitive-Gate Thyristor (SCR)—30Volt 4Amp
R1216	Case 77(B)	Sensitive-Gate Thyristor (SCR)—60Volt 4Amp
R1217	Case 77(B)	Sensitive-Gate Thyristor (SCR)—100Volt 4Amp
R1218	Case 77(B)	Sensitive-Gate Thyristor (SCR)—200Volt 4Amp
R1220	Case 90(A)	Thyristor (SCR)—50V 8A
R1221	Case 90(A)	Thyristor (SCR)—200V 8A
R1222	Case 90(A)	Thyristor (SCR)—400V 8A
R1223	Case 90(A)	Thyristor (SCR)—600V 8A
R1241	Case 86(A)	Thyristor (SCR)—50V 8A
R1242	Case 86(A)	Thyristor (SCR)—100V 8A
R1243	Case 86(A)	Thyristor (SCR)—200V 8A
R1244	Case 86(A)	Thyristor (SCR)—300V 8A
R1245	Case 86(A)	Thyristor (SCR)—400V 8A
R1246	Case 86(A)	Thyristor (SCR)—500V 8A
R1247	Case 86(A)	Thyristor (SCR)—600V 8A
R1300	Case 175(A)	Thyristor (SCR)—25V 16A
R1301	Case 175(A)	Thyristor (SCR)—50V 16A
R1302	Case 175(A)	Thyristor (SCR)—100V 16A
R1304	Case 175(A)	Thyristor (SCR)—200V 16A
R1306	Case 175(A)	Thyristor (SCR)—300V 16A
R1307	Case 175(A)	Thyristor (SCR)—400V 16A
R1471	Case 175(A)	Thyristor (SCR)—50V 35A
R1472	Case 175(A)	Thyristor (SCR)—100V 35A
R1473	Case 175(A)	Thyristor (SCR)—200V 35A
R1475	Case 175(A)	Thyristor (SCR)—400V 35A
R1721	Case 90(B)	Triac—50V 8A
R1722	Case 90(B)	Triac—100V 8A
R1723	Case 90(B)	Triac—200V 8A
R1725	Case 90(B)	Triac—400V 8A
R1750	Case 86(B)	Triac—50V 10A
R1751	Case 86(B)	Triac—200V 10A

HEP NO.	CASE STYLE	DESCRIPTION
R1752	Case86(B)	Triac—400V 10A
R1781	Case 175(B)	Triac—50V 25A
R1782	Case 175(B)	Triac—100V 25A
R1783	Case 175(B)	Triac—200V 25A
R1785	Case 175(B)	Triac—400V 25A
R2001	TO-92(H)	Si Bidirectional Switch—8V 2A
R2021	TO-92(K)	Si Unidirectional Switch—8V 2A
R2500	TO-92A(A)	Si Voltage-Variable Capacitance Diode—6.1 to 7.5 pf
R2501	TO-92A(A)	Si Voltage-Variable Capacitance Diode—9.0 to 11.0 pf
R2502	TO-92A(A)	Si Voltage-Variable Capacitance Diode—13.5 to 16.5 pf
R2503	TO-92A(A)	Si Voltage-Variable Capacitance Diode—29.7 to 36.3 pf
R2504	TO-92A(A)	Si Voltage-Variable Capacitance Diode—50.4 to 61.6 pf
R2505	TO-92A(A)	Si Voltage-Variable Capacitance Diode—90.0 to 110.0 pf
R9001	TO-92(C)	Si Dual Diode—Common Cathode
R9002	TO-92(D)	Si Dual Diode—Common Anode
R9003	TO-92(M)	Si Dual Diode—Series Connected
S0001	TO-92(A)	Si General Purpose High Voltage Transistor—NPN—140V 600mA
S0002	TO-92(A)	Si General Purpose Oscillator, Mixer, Amplifier—NPN
S0003	TO-92(A)	Si General Purpose Oscillator, Mixer, Amplifier—NPN
S0004	TO-92(A)	Si High Frequency RF Amplifier, Mixer, Oscillator—NPN
S0005	TO-92(A)	Si General Purpose High Voltage Amplifier—NPN
S0006	TO-92(A)	Si General Purpose Oscillator, Mixer, Amplifier—PNP
S0007	TO-92(A)	Si General Purpose Medium Voltage Amplifier—NPN
S3001	TO-39	Si RF Power Transistor—NPN—65V 1A 5W P out @ 500MHz
S3002	TO-39	Si Medium Power Transistor—NPN—80V 5A 6W 30MHz
S3003	TO-39	Si Medium Power Transistor—PNP—80V 5A 6W 30MHz
S3005	Case 144B	Si RF Power Transistor—NPN—36V 1A 2W P out @ 175MHz
S3006	Case 144B	Si RF Power Transistor—NPN—36V 3A 10W P out @ 175MHz
S3007	Case 145A	Si RF Power Transistor—NPN—36V 5A 25W P out @ 175MHz
S3008	TO-39	Si RF Power Transistor—NPN—55V 400mA 1.5W P out @ 400MHz
S3009	Case 145A	Si RF Power Transistor—NPN—36V 6A 40W P out @ 175MHz
S3010	TO-39	Si Medium Power Transistor—NPN—70V 4A 10W—30MHz
S3011	TO-39	Si Medium Power Transistor—NPN—70V 1A 7W—100MHz
S3020	Case 152	Si Medium Power Transistor—NPN—60V 1A 5W—150MHz
S3021	Case 152	Si High Voltage Transistor—NPN—250V 1A 5W—100MHz h_{FE} 120 typ
S3022	Case 152	Si High Voltage Transistor—NPN—250V 1A 5W—100MHz h_{FE} 225 typ
S3023	Case 152	Si General Purpose Amplifier—NPN—35V 1.5A 8W—50MHz h_{FE} 110 typ
S3024	Case 152	Si General Purpose Amplifier—NPN—35V 1.5A 8W—50MHz h_{FE} 200 typ
S3025	Case 152	Si General Purpose Amplifier—NPN—35V 1.5A 8W—50MHz h_{FE} 320 typ
S3026	Case 152	Si General Purpose Amplifier—NPN—35V 1.5A 8W—50MHz h_{FE} 550 typ
S3027	Case 152	Si General Purpose Amplifier—PNP—35V 1.5A 8W—50MHz h_{FE} 110 typ

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HEP NO.	CASE STYLE	DESCRIPTION
S3028	Case 152	Si General Purpose Amplifier—PNP—35V 1.5A 8W—50MHz h_{FE} 200 typ
S3029	Case 152	Si General Purpose Amplifier—PNP—35V 1.5A 8W—50MHz h_{FE} 320 typ
S3030	Case 152	Si General Purpose Amplifier—PNP—35V 1.5A 8W—50MHz h_{FE} 550 typ
S3031	Case 152	Si General Purpose Amplifier—PNP—80V 1A 5W—125MHz
S5000	Case 77(A)	Si General Purpose Power Amplifier—NPN—80V 4A 40W
S5001	Case 90(C)	Si General Purpose Power Amplifier—NPN—70V 10A 90W
S5002	Case 90(C)	Si General Purpose Power Amplifier—PNP—70V 10A 90W
S5003	Case 77(A)	Si General Purpose Power Amplifier—NPN—60V 4A 40W
S5004	Case 90(C)	Si General Purpose Power Amplifier—NPN—90V 7A 90W
S5005	Case 90(C)	Si General Purpose Power Amplifier—PNP—90V 7A 90W
S5006	Case 77(A)	Si General Purpose Power Amplifier—PNP—80V 4A 40W
S5007	Case 77(A)	Si General Purpose Power Amplifier—PNP—60V 4A 40W
S5008	Case 90(C)	Si General Purpose Power Amplifier—PNP—40V 5A 65W h_{FE} 70 typ
S5009	Case 90(C)	Si General Purpose Power Amplifier—PNP—40V 5A 65W h_{FE} 120 typ
S5010	Case 90(C)	Si General Purpose Power Amplifier—PNP—40V 5A 65W h_{FE} 200 typ
S7000	TO-3	Si High Power Transistor—NPN—100V 30A 200W
S7001	TO-3	Si High Power Transistor—PNP—100V 30A 200W
S9001	TO-92(G)	Programmable Unijunction Transistor (unijunction characteristics such as R_{BB} , η , I_V , and I_P can be altered (programmed) by merely changing the gate bias and supply resistors)
S9100	TO-92(A)	Si Darlington Amplifier—NPN
S9101	Case 77(A)	Si Darlington Amplifier—NPN—60V 4A 40W
S9102	Case 90(C)	Si Darlington Amplifier—NPN—60V 5A 70W
S9120	TO-92(A)	Si Darlington Amplifier—PNP
S9121	Case 77(A)	Si Darlington Amplifier—PNP—60V 4A 40W
S9122	Case 90(C)	Si Darlington Amplifier—PNP—60V 5A 70W
S9140	TO-3	Si Darlington Amplifier—NPN—60V 5A 90W
S9141	TO-3	Si Darlington Amplifier—PNP—60V 5A 90W
Z0206	TO-92A(A)	3.3 Volt Zener Diode 500mW
Z0208	TO-92A(A)	3.9 Volt Zener Diode 500mW
Z0210	TO-92A(A)	4.7 Volt Zener Diode 500mW
Z0211	TO-92A(A)	5.1 Volt Zener Diode 500mW
Z0212	TO-92A(A)	5.6 Volt Zener Diode 500mW
Z0214	TO-92A(A)	6.2 Volt Zener Diode 500mW
Z0215	TO-92A(A)	6.8 Volt Zener Diode 500mW
Z0217	TO-92A(A)	8.2 Volt Zener Diode 500mW
Z0219	TO-92A(A)	9.1 Volt Zener Diode 500mW
Z0220	TO-92A(A)	10 Volt Zener Diode 500mW
Z0222	TO-92A(A)	12 Volt Zener Diode 500mW
Z0225	TO-92A(A)	15 Volt Zener Diode 500mW
Z0228	TO-92A(A)	18 Volt Zener Diode 500mW
Z0230	TO-92A(A)	20 Volt Zener Diode 500mW
Z0231	TO-92A(A)	22 Volt Zener Diode 500mW
Z0234	TO-92A(A)	27 Volt Zener Diode 500mW
Z0401	DO-41	3.3 Volt Zener Diode 1 Watt
Z0402	DO-41	3.6 Volt Zener Diode 1 Watt

HEP NO.	CASE STYLE	DESCRIPTION
Z0403	DO-41	3.9 Volt Zener Diode 1 Watt
Z0405	DO-41	4.7 Volt Zener Diode 1 Watt
Z0406	DO-41	5.1 Volt Zener Diode 1 Watt
Z0407	DO-41	5.6 Volt Zener Diode 1 Watt
Z0408	DO-41	6.2 Volt Zener Diode 1 Watt
Z0409	DO-41	6.8 Volt Zener Diode 1 Watt
Z0410	DO-41	7.5 Volt Zener Diode 1 Watt
Z0411	DO-41	8.2 Volt Zener Diode 1 Watt
Z0412	DO-41	9.1 Volt Zener Diode 1 Watt
Z0413	DO-41	10 Volt Zener Diode 1 Watt
Z0414	DO-41	11 Volt Zener Diode 1 Watt
Z0415	DO-41	12 Volt Zener Diode 1 Watt
Z0416	DO-41	13 Volt Zener Diode 1 Watt
Z0417	DO-41	14 Volt Zener Diode 1 Watt
Z0418	DO-41	15 Volt Zener Diode 1 Watt
Z0419	DO-41	16 Volt Zener Diode 1 Watt
Z0420	DO-41	18 Volt Zener Diode 1 Watt
Z0421	DO-41	20 Volt Zener Diode 1 Watt
Z0422	DO-41	22 Volt Zener Diode 1 Watt
Z0423	DO-41	24 Volt Zener Diode 1 Watt
Z0424	DO-41	27 Volt Zener Diode 1 Watt
Z0426	DO-41	33 Volt Zener Diode 1 Watt
Z0428	DO-41	39 Volt Zener Diode 1 Watt
Z0430	DO-41	47 Volt Zener Diode 1 Watt
Z0432	DO-41	56 Volt Zener Diode 1 Watt
Z0433	DO-41	62 Volt Zener Diode 1 Watt
Z0436	DO-41	82 Volt Zener Diode 1 Watt
Z0438	DO-41	100 Volt Zener Diode 1 Watt
Z0439	DO-41	110 Volt Zener Diode 1 Watt
Z0440	DO-41	120 Volt Zener Diode 1 Watt
Z0442	DO-41	150 Volt Zener Diode 1 Watt
Z0444	DO-41	180 Volt Zener Diode 1 Watt
Z0445	DO-41	200 Volt Zener Diode 1 Watt
Z2500	Case 17	3.3 Volt Zener Diode 5 Watt
Z2502	Case 17	3.9 Volt Zener Diode 5 Watt
Z2504	Case 17	4.7 Volt Zener Diode 5 Watt
Z2506	Case 17	5.6 Volt Zener Diode 5 Watt
Z2508	Case 17	6.2 Volt Zener Diode 5 Watt
Z2510	Case 17	7.5 Volt Zener Diode 5 Watt
Z2513	Case 17	9.1 Volt Zener Diode 5 Watt
Z2514	Case 17	10 Volt Zener Diode 5 Watt
Z2516	Case 17	12 Volt Zener Diode 5 Watt
Z2519	Case 17	15 Volt Zener Diode 5 Watt
Z2522	Case 17	18 Volt Zener Diode 5 Watt
Z2525	Case 17	22 Volt Zener Diode 5 Watt
Z2528	Case 17	27 Volt Zener Diode 5 Watt
Z2531	Case 17	33 Volt Zener Diode 5 Watt
Z2537	Case 17	56 Volt Zener Diode 5 Watt
Z2542	Case 17	82 Volt Zener Diode 5 Watt
Z2545	Case 17	100 Volt Zener Diode 5 Watt
Z2547	Case 17	120 Volt Zener Diode 5 Watt
Z3500	DO-4(A)	3.9 Volt Zener Diode 10 Watt
Z3502	DO-4(A)	4.7 Volt Zener Diode 10 Watt
Z3504	DO-4(A)	5.6 Volt Zener Diode 10 Watt
Z3505	DO-4(A)	6.2 Volt Zener Diode 10 Watt
Z3507	DO-4(A)	7.5 Volt Zener Diode 10 Watt
Z3511	DO-4(B)	9.1 Volt Zener Diode 10 Watt
Z3512	DO-4(B)	10 Volt Zener Diode 10 Watt
Z3514	DO-4(B)	12 Volt Zener Diode 10 Watt
Z3516	DO-4(B)	15 Volt Zener Diode 10 Watt
Z3518	DO-4(B)	18 Volt Zener Diode 10 Watt
Z3520	DO-4(B)	22 Volt Zener Diode 10 Watt
Z3522	DO-4(B)	27 Volt Zener Diode 10 Watt
Z3524	DO-4(B)	33 Volt Zener Diode 10 Watt
Z3530	DO-4(B)	56 Volt Zener Diode 10 Watt
Z3534	DO-4(B)	82 Volt Zener Diode 10 Watt
Z3536	DO-4(B)	100 Volt Zener Diode 10 Watt

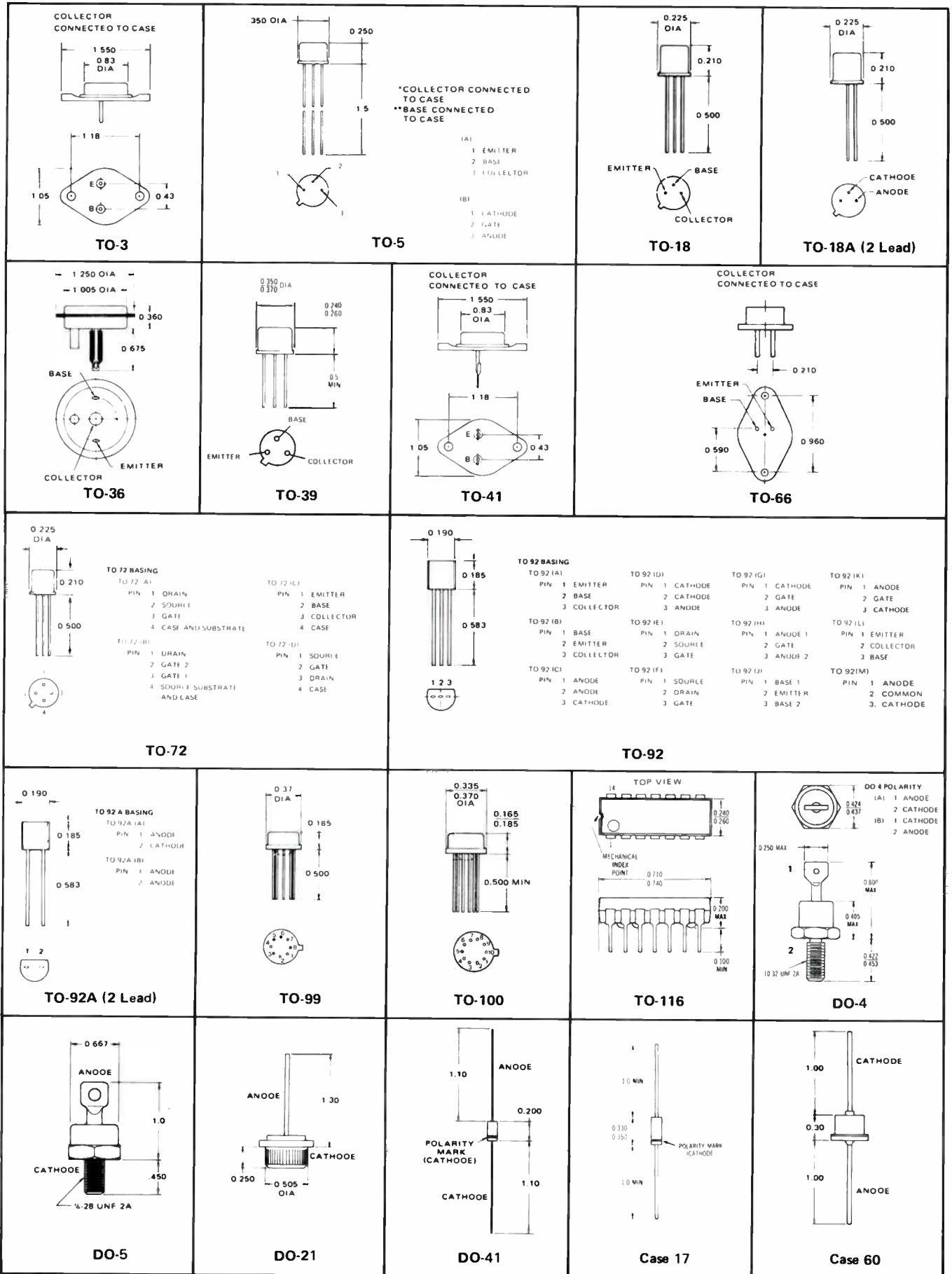
*Collector connected to case

**Base connected to case

†Reverse Polarity (Anode to Case) is available — Add Suffix R (i.e., R0130 has Cathode connected to case — R0130R has Anode connected to case)

HEP Semiconductor Outline Dimensions

All dimensions are in inches, all basing is bottom view, unless noted otherwise.



HEP Semiconductor Outline Dimensions

<p>Case 70</p>	<p>Case 71 Case 71A</p>	<p>Case 77</p>	<p>Case 82</p>
<p>Case 85</p>	<p>Case 86</p>	<p>Case 87L</p>	<p>Case 90</p>
<p>Case 108</p>	<p>Case 144B</p>	<p>Case 145A</p>	<p>Case 145A</p>
<p>Case 152</p>	<p>Case 171</p>	<p>Case 173</p>	<p>Case 175</p>
<p>Case 179</p>	<p>Case 194</p>	<p>Case 206</p>	

HEP Semiconductor Outline Dimensions

<p>Case 206A</p>	<p>Case 216</p>	<p>Case 234-02</p> <p>PIN 1 ANODE 2. CATHODE Cathode indicated by larger lead</p>	<p>Case 602A</p>	<p>Case 612</p>
<p>Case 614</p>	<p>Case 626</p> <p>① Measure to center line of leads when parallel ② Four insulating stand offs are provided</p>	<p>Case 627</p> <p>① Measure to center line of leads when parallel</p>	<p>Case 641</p>	<p>Case 643A</p>
<p>Case 644A</p>	<p>Case 647</p>	<p>Case 648</p> <p>NOTES 1 DIM "L" TO CENTER OF LEADS WHEN FORMED PARALLEL</p>		
<p>Case 656</p>		<p>Case 686</p>		

SILICON TRANSISTORS

LOW POWER

MINIMUM RATINGS AND CHARACTERISTICS ($T_A = 25^\circ\text{C}$)											
HEP Type No.	Polarity	Collector-Base Voltage V_{CB0}	Collector-Emitter Voltage V_{CE0}	Emitter-Base Voltage V_{EB0}	Collector Current I_C (mA dc)	Total Device Dissipation (mW)	Operating Junction Temperature ($^\circ\text{C}$ max)	Typical Cut-Off Frequency f_t (MHz)	Typical Current Gain $h_{FE} (\beta)$	Typical Collector Cutoff Current @ V_{CB0}	Case
50	NPN	25	15	4.0	300	400	175	250	85	100 nA, 20V	TO-18
51	PNP	30	25	4.0	600	600	175	150	80	1 μA , 20V	TO-5
52	PNP	30	30	4.0	200	400	175	200	95	200 nA, 30V	TO-18
53	NPN	35	30	4.0	600	600	175	200	85	50 nA, 30V	TO-5
54	NPN	30	20	5.0	200	310	135	30	350	200 nA, 20V	TO-92(A)
55	NPN	30	25	5.0	200	310	135	200	350	100 nA, 20V	TO-92(A)
56	NPN	30	20	2.5	100	310	135	750	70	200 nA, 20V	TO-92(B)
57	PNP	25	25	5.0	200	310	135	200	350	100 nA, 20V	TO-92(A)
709	NPN	30	15	3.0	50	300	175	600	120	1 μA , 15V	TO-72(C)
715	PNP	50	40	4.0	200	310	135	200	120	500 nA, 10V	TO-92(A)
716	PNP	40	40	5.0	600	310	135	300	110	500 nA, 10V	TO-92(A)
717	PNP	25	25	4.0	100	310	135	120	350	100 nA, 15V	TO-92(A)
718	NPN	30	20	4.0	100	310	135	600	80	40 nA, 15V	TO-92(A)
719	NPN	30	30	4.0	100	310	135	700	130	500 nA, 15V	TO-92(A)
720	NPN	30	20	3.0	100	310	135	800	40	100 nA, 30V	TO-92(A)
721	NPN	30	30	5.0	500	310	135	260	350	100 nA, 20V	TO-92(A)
722	NPN	25	25	4.0	100	310	135	200	60	100 nA, 15V	TO-92(A)
723	NPN	25	25	4.0	100	310	135	200	90	100 nA, 15V	TO-92(A)
724	NPN	25	25	4.0	100	310	135	200	160	100 nA, 15V	TO-92(A)
725	NPN	25	25	4.0	100	310	135	200	250	100 nA, 15V	TO-92(A)
726	NPN	25	25	4.0	100	310	135	200	350	100 nA, 15V	TO-92(A)
727	NPN	25	20	4.0	100	310	135	200	50	500 nA, 5V	TO-92(A)
728	NPN	45	40	4.0	100	310	135	200	180	50 nA, 20V	TO-92(A)
729	NPN	45	45	4.0	100	310	135	200	100	500 nA, 30V	TO-92(A)
730	NPN	30	25	4.5	50	310	135	175	600	100 nA, 15V	TO-92(A)
731	NPN	20	20	4.0	25	310	135	30	130	500 nA, 5V	TO-92(A)
732	NPN	20	20	4.0	25	310	135	200	45	500 nA, 5V	TO-92(A)
733	NPN	30	20	4.0	100	310	135	100	95	500 nA, 5V	TO-92(A)
734	NPN	40	20	4.0	25	310	135	200	75	500 nA, 5V	TO-92(B)
735	NPN	45	40	6.0	600	310	135	150	300	100 nA, 20V	TO-92(A)
736	NPN	55	50	6.0	600	310	135	150	140	100 nA, 20V	TO-92(A)
737	NPN	30	25	6.0	100	310	135	100	600	100 μA , 5V	TO-92(A)
738	NPN	45	40	7.0	100	310	135	100	250	50 nA, 10V	TO-92(A)
739*	PNP	40	35	25	150	310	135	4.0	250	100 nA, 10V	TO-92(A)
S0002	NPN	25	25	5.0	500	360	135	80	160	100 nA, 25V	TO-92(A)
S0003	NPN	25	25	5.0	500	360	135	80	380	100 nA, 25V	TO-92(A)
S0004	NPN	50	30	5.0	600	310	135	400	75	100 nA, 30V	TO-92(A)
S0006	PNP	30	30	3.0	50	310	135	100	450	100 nA, 10V	TO-92(A)
S0007	NPN	70	70	4.0	50	310	135	200	125	100 nA, 30V	TO-92(A)

*Silicon replacement for 2N404.

RF POWER

75	①	NPN	40	20	3.5	400	P out 1 W	175	250	15 min	1 μA , 25V	TO-39
76	①	PNP	40	20	3.5	400	P out 1 W	175	250	15 min	1 μA , 25V	TO-39
S3001		NPN	65	40	4.0	1 A	P out 5 W	175	500	10 min	1 mA, 65V	TO-39
S3005		NPN	36	30 CES	4.0	1 A	P out 2 W	200	175	10 min	1 mA, 15V	144B
S3006		NPN	36	30 CES	4.0	3 A	P out 10 W	200	175	10 min	1 mA, 15V	144B
S3007		NPN	36	30 CES	4.0	5 A	P out 25 W	200	175	10 min	1 mA, 15V	145A
S3008		NPN	55	30 CES	4.0	400	P out 1.5 W	200	400	10 min	1 μA , 25V	TO-39
S3009		NPN	36	36 CES	4.0	6 A	P out 40 W	200	200	5 min	2 mA, 15V	145A
S3011	②	NPN	70	50	5.0	1 A	7 W	200	100 min	100	200 nA, 35V	TO-39

①② These devices may be used as complementary pairs.

HEP Semiconductor Catalog

SILICON TRANSISTORS (Continued)

MEDIUM POWER

MINIMUM RATINGS AND CHARACTERISTICS ($T_A = 25^\circ\text{C}$)											
HEP Type No.	Polarity	Collector-Base Voltage BV_{CBO}	Collector-Emitter Voltage BV_{CEO}	Emitter-Base Voltage BV_{EBO}	Collector Current I_C (mA dc)	Total Device Dissipation	Operating Junction Temperature ($^\circ\text{C}$ max)	Typical Cut-Off Frequency f_t (MHz)	Typical Current Gain $h_{FE} (\beta)$	Typical Collector Cutoff Current @ V_{CB} I_{CBO}	Case
242 ①	PNP	60	40	7.0	3 A	6 W	200	8.0	60	500 μA , 40V	TO-5
243 ①	NPN	60	40	6.0	3 A	6 W	200	8.0	60	500 μA , 40V	TO-5
245 ②	NPN	60	40	5.0	3 A	30 W	150	8.0	60	500 μA , 40V	77(A)
246 ②	PNP	60	40	5.0	3 A	30 W	150	8.0	60	500 μA , 40V	77(A)
700 ③	PNP	40	40	5.0	4 A	40 W	150	8.0	70	100 μA , 25V	77(A)
701 ③	NPN	40	40	5.0	4 A	40 W	150	8.0	100	100 μA , 40V	77(A)
702 ④	PNP	80	80	5.0	4 A	25 W	150	8.0	80	100 μA , 60V	TO-66
703 ④	NPN	80	80	5.0	4 A	25 W	150	6.0	85	100 μA , 60V	TO-66
705	PNP	40	40	5.0	5 A	87.5 W	200	4.0	250	1 mA, 40V	TO-3
708	PNP	60	60	5.0	600	1.8 W	175	275	85	3 nA, 30V	TO-18
710	PNP	95	80	4.5	100	3 W	200	200	25	5 nA, 15V	TO-5
S3002 ⑤	NPN	80	80	5.0	5 A	6 W	200	30	80	100 μA , 80V	TO-39
S3003 ⑤	PNP	80	80	5.0	5 A	6 W	200	30	80	100 μA , 80V	TO-39
S3010	NPN	70	60	5.0	4 A	10 W	175	30	70	100 μA , 70V	TO-39
S3020	NPN	60	60	4.0	1 A	5 W	135	150	120	100 nA, 40V	152
S3023 ⑥	NPN	35	35	4.0	1.5 A	8 W	135	50	110	100 nA, 30V	152
S3024 ⑦	NPN	35	35	4.0	1.5 A	8 W	135	50	200	100 nA, 30V	152
S3025 ⑧	NPN	35	35	4.0	1.5 A	8 W	135	50	320	100 nA, 30V	152
S3026 ⑨	NPN	35	35	4.0	1.5 A	8 W	135	50	550	100 nA, 30V	152
S3027 ⑥	PNP	35	35	4.0	1.5 A	8 W	135	50	110	100 nA, 30V	152
S3028 ⑦	PNP	35	35	4.0	1.5 A	8 W	135	50	200	100 nA, 30V	152
S3029 ⑧	PNP	35	35	4.0	1.5 A	8 W	135	50	320	100 nA, 30V	152
S3030 ⑨	PNP	35	35	4.0	1.5 A	8 W	135	50	550	100 nA, 30V	152
S3031	PNP	80	80	4.0	1 A	5 W	135	125	140	100 nA, 60V	152

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ These devices may be used as complementary pairs.

HIGH POWER

247 ①	NPN	70	50	7.0	10 A	150 W	200	6.0	60	1.5 mA, 40V	TO-3
248 ①	PNP	70	50	7.0	10 A	150 W	200	6.0	60	2 mA, 40V	TO-3
704	NPN	100	60	7.0	15 A	115 W	200	1.0	90	500 nA, 100V	TO-3
S5000 ②	NPN	80	80	5.0	4 A	40 W	150	2.0	60	100 nA, 80V	77(A)
S5001 ③	NPN	70	60	5.0	10 A	90 W	150	2.0	50	1 mA, 70V	90(C)
S5002 ③	PNP	70	60	5.0	10 A	90 W	150	2.0	50	1 mA, 70V	90(C)
S5003 ④	NPN	60	60	4.0	4 A	40 W	150	2.0	60	100 nA, 60V	77(A)
S5004	NPN	90	90	4.0	10 A	90 W	150	2.0	70	100 μA , 90V	90(C)
S5005	PNP	90	90	4.0	10 A	90 W	150	2.0	70	100 μA , 90V	90(C)
S5006 ②	PNP	80	80	5.0	4 A	40 W	150	2.0	60	100 μA , 80V	77(A)
S5007 ④	PNP	60	60	5.0	4 A	40 W	150	2.0	60	100 μA , 60V	77(A)
S5008	PNP	40	40	4.0	5 A	65 W	150	2.0	70	100 μA , 40V	90(C)
S5009	PNP	40	40	4.0	5 A	65 W	150	2.0	120	100 μA , 40V	90(C)
S5010	PNP	40	40	4.0	5 A	65 W	150	2.0	200	100 μA , 40V	90(C)
S7000	NPN	100	100	4.0	30 A	200 W	200	2.0	75	1 mA, 100V	TO-3
S7001	PNP	100	100	4.0	30 A	200 W	200	2.0	75	1 mA, 100V	TO-3

① ② ③ ④ These devices may be used as complementary pairs.

SILICON TRANSISTORS (Continued)

HIGH VOLTAGE

MINIMUM RATINGS AND CHARACTERISTICS ($T_A = 25^\circ\text{C}$)											
HEP Type No.	Polarity	Collector-Base Voltage BV_{CBO}	Collector-Emitter Voltage BV_{CEO}	Emitter-Base Voltage BV_{EBO}	Collector Current I_C (mA dc)	Total Device Dissipation	Operating Junction Temperature ($^\circ\text{C}$ max)	Typical Cut-Off Frequency f_t (MHz)	Typical Current Gain $h_{FE}(\beta)$	Typical Collector Cutoff Current @ V_{CB} I_{CBO}	Case
240	NPN	300	300	6.0	500	10 W	150	10	115	100 μA , 300V	TO-66
241	NPN	160	120	6.0	5 A	40 W	150	20	60	500 μA , 160V	TO-66
244	NPN	300	300	3.0	500	25 W	150	15	80	100 μA , 300V	77(A)
706	NPN	350	325	6.0	100	4 W	175	10	25	1 μA , 150V	TO-39
707	NPN	400	325	5.0	10 A	125 W	300	2.5	65	1 mA, 400V	TO-3
712	NPN	180	200	5.0	50	1 W	175	150	35	5 μA , 100V	TO-5
713	NPN	100	100	5.0	200	1 W	175	150	35	1 μA , 50V	TO-5
714	NPN	150	150	5.0	1 A	1 W	175	100	120	100 nA, 125V	152
740	NPN	700	700	5.0	3.5 A	100 W	300	2.5	10 min	250 nA, 400V	TO-3
S0001	NPN	140	120	5.0	600	310	135	60	200	1 μA , 75V	TO-92(A)
S0005	NPN	180	160	6.0	600	310	135	200	180	50 nA, 120V	TO-92(A)
S3021	NPN	250	250	8.0	1 A	5 W	135	100	120	200 nA, 200V	152
S3022	NPN	250	250	8.0	1 A	5 W	135	100	225	200 nA, 200V	152

DARLINGTON AMPLIFIERS

S9100 ^①	NPN	30	30	10	300	500 mW	135	200	20,000 min	100 nA, 30V	TO-92(A)
S9101 ^②	NPN	60	60	5.0	4 A	40 W	125	2.0	750 min	200 nA, 60V	77(A)
S9102 ^③	NPN	60	60	5.0	5 A	70 W	150	3.0	750 min	200 nA, 60V	90(C)
S9120 ^④	PNP	30	30	8.0	300	500 mW	135	175	50,000 min	100 nA, 30V	TO-92(A)
S9121 ^②	PNP	60	60	5.0	4 A	40 W	125	2.0	750 min	200 nA, 60V	77(A)
S9122 ^③	PNP	60	60	5.0	5 A	70 W	150	3.0	750 min	200 nA, 60V	90(C)
S9140 ^④	NPN	60	60	5.0	5 A	90 W	200	2.0	1,000 min	200 nA, 60V	TO-3
S9141 ^④	PNP	60	60	5.0	5 A	90 W	200	2.0	1,000 min	200 nA, 60V	TO-3

① ② ③ ④ These devices may be used as complementary pairs.

GERMANIUM TRANSISTORS

LOW POWER

MINIMUM RATINGS AND CHARACTERISTICS ($T_A = 25^\circ\text{C}$)											
HEP Type No.	Polarity	Collector-Base Voltage BV_{CEO}	Collector-Emitter Voltage BV_{CES}	Emitter-Base Voltage BV_{EBO}	Collector Current I_C (mA dc)	Total Device Dissipation (mW)	Operating Junction Temperature T_J ($^\circ\text{C}$ max)	Typical Cut-Off Frequency f_t	Typical Current Gain $h_{FE}(\beta)$	Typical Collector Cutoff Current @ V_{CB} I_{CBO}	Case
1	PNP	12	12	2.0	100	150	100	100 MHz	50	5 μA , 6V	TO-18*
2	PNP	22	22	0.65	100	300	100	750 MHz	75	12 μA , 10V	TO-5(A)*
3	PNP	20	20	0.5	50	100	100	250 MHz	85	15 μA , 10V	TO-72(C)
250	PNP	20	20	2.5	200	200	85	1.5 MHz	65	15 μA , 20V	TO-5(A)
251	PNP	20	20	2.0	200	200	85	2.5 MHz	150	15 μA , 20V	TO-5(A)
252	PNP	20	20	2.0	200	200	85	1.5 MHz	65	15 μA , 20V	TO-5(A)
253	PNP	20	20	2.5	400	225	100	2 MHz	40	16 μA , 20V	TO-5(A)**
254	PNP	20	20	2.5	400	225	100	2 MHz	70	16 μA , 20V	TO-5(A)**
629	PNP	55	40	30	400	200	100	1 MHz	50	10 μA , 20V	TO-5(A)
630	PNP	55	40	30	400	200	100	1 MHz	110	10 μA , 20V	TO-5(A)
631	PNP	40	25	25	200	200	100	1.5 MHz	45	15 μA , 25V	TO-5(A)
632	PNP	40	25	25	200	200	100	2 MHz	80	15 μA , 25V	TO-5(A)
633	PNP	40	25	25	200	200	100	2.5 MHz	160	15 μA , 25V	TO-5(A)
634	PNP	40	25	25	200	200	100	3 MHz	350	15 μA , 25V	TO-5(A)
635	PNP	30	25	2.5	100	150	100	100 MHz	85	5 μA , 5V	TO-5(A)
637	PNP	20	15	0.3	10	150	100	800 MHz	120	5 μA , 10V	TO-72(C)
641	NPN	25	15	10	300	150	85	150 MHz	70	6 μA , 25V	TO-18

HEP Semiconductor Catalog

GERMANIUM TRANSISTORS (Continued)

DRIFT-FIELD

MINIMUM RATINGS AND CHARACTERISTICS ($T_A = 25^\circ\text{C}$)											
HEP Type No.	Polarity	Collector-Base Voltage V_{VCEO}	Collector-Emitter Voltage V_{VCEs}	Emitter-Base Voltage V_{VEBO}	Collector Current I_C (mAdc)	Total Device Dissipation (mW)	Operating Junction Temperature T_J ($^\circ\text{C}$ max)	Typical Cut-Off Frequency f_t	Typical Current Gain $h_{FE}(\beta)$	Typical Collector Cutoff Current @ V_{CB} I_{CBO}	Case
636	PNP	35	35	3.0	100	150	100	600 MHz	120	500 nA, 10V	TO-18
638	PNP	30	20	0.5	50	60	85	100 MHz	60	10 μA , 20V	TO-5(A)
639	PNP	18	18	0.5	5.0	55	100	20 MHz	40-120	12 μA , 25V	TO-18
640	PNP	18	18	0.5	5.0	55	100	20 MHz	80-200	12 μA , 25V	TO-18

MEDIUM POWER

200	PNP	30	30 (CER)	10	3 A	90 W	110	600 kHz	40	6 mA, 30V	TO-3
230	PNP	30	30 (CER)	10	5 A	90 W	110	600 kHz	60	3 mA, 30V	TO-3
232	PNP	70	70	10	7 A	90 W	110	600 kHz	60	80 μA , 2V	TO-3
238	PNP	60	40	20	3 A	20 W	110	200 kHz	120	125 μA , 30V	TO-5(A)*
239	PNP	100	60	20	3 A	20 W	110	200 kHz	120	125 μA , 30V	TO-5(A)*
623	PNP	60	35	20	7 A	77 W	110	600 kHz	70	1 mA, 35V	TO-3
624	PNP	60	35	20	7 A	77 W	110	600 kHz	120	1 mA, 35V	TO-3
625	PNP	100	75	50	10 A	90 W	100	5 kHz	40	20 mA, 90V	TO-3
626	PNP	80	50	2.0	20 A	85 W	110	1 MHz	60	10 mA, 80V	TO-3
627	PNP	80	80	5.0	10 A	85 W	110	700 kHz	40	20 mA, 80V	TO-3
628	PNP	60	35	20	7 A	77 W	110	600 kHz	45	1 mA, 35V	TO-3
642	PNP	30	25	20	3 A	57 W	110	350 kHz	95	1 mA, 30V	TO-66
643	PNP	30	25	20	3 A	57 W	110	350 kHz	160	1 mA, 30V	TO-66

HIGH POWER

231	PNP	30	30 (CER)	10	15 A	150 W	110	500 kHz	40	6 mA, 30V	TO-36
233	PNP	65	65	60	15 A	170 W	110	500 kHz	55	20 mA, 65V	TO-36
237	PNP	75	60	40	30 A	170 W	110	270 kHz	80	900 μA , 75V	TO-36
G6001	PNP	90	80	1.5	25 A	85 W	110	850 kHz	70	200 μA , 2.0V	TO-3
G6002	PNP	45	45 (CES)	25	60 A	170 W	110	2 kHz	100	4 mA, 45V	TO-36

HIGH VOLTAGE

234	PNP	200	200	2.0	5 A	56 W	110	1.0 MHz	60	400 μA , 10V	TO-3
235	PNP	320	320	2.0	10 A	56 W	110	1.0 MHz	60	400 μA , 10V	TO-3
236	PNP	110	80 (CEO)	2.0	25 A	106 W	110	210 kHz	60	200 μA , 2V	TO-41
644	PNP	160	160	5.0	10 A	85 W	110	50 kHz	40	3 mA, 160V	TO-3

SILICON UNIJUNCTION TRANSISTOR

MAXIMUM RATINGS AND CHARACTERISTICS ($T_A = 25^\circ\text{C}$)											
HEP Type No.	RMS Emitter Current I_e (mA)	Intrinsic Standoff Ratio η @ $V_{BB} = 10\text{ V}$		Interbase Resistance R_{BB0} $V_{BB} = 3\text{ V}, I_E = 0$ (k Ω)		Interbase Voltage (Volts)	RMS Power Dissipation P_D (mW)	Operating Junction Temperature T_J ($^\circ\text{C}$)	Emitter Reverse Current I_{EO} @ $V_{BE} = 30\text{ V}, I_B = 0$ (μA)	Minimum Valley Current I_V @ $V_{BB} = 20\text{ V}, R_{B2} = 100\Omega$ (mA)	Case
		Min	Max	Min	Max						
310	50	0.70	0.85	4.0	9.1	35	300	-65 to +125	1.0	4.0	TO-92(J)

PROGRAMMABLE UNIJUNCTION TRANSISTOR*

HEP Type No.	Forward Anode Current I_T (mA)	Gate Current I_G (mA)	Gate-Cathode Forward Voltage V_{GKF} (Volts)	Gate-Cathode Reverse Voltage V_{GKR} (Volts)	Anode-Cathode Voltage V_{AK} (Volts)	Power Dissipation P_D (mW)	Case
S9001	200	± 20	40	5.0	40	375	TO-92(G)

*Unijunction characteristics such as R_{BB} , η , I_V , and I_p can be altered (programmed) by merely changing the gate bias and supply resistors.

SILICON FIELD EFFECT TRANSISTORS

N-CHANNEL J FET

MAXIMUM RATINGS AND CHARACTERISTICS ($T_A = 25^\circ\text{C}$)									
HEP Type No.	Trans-Conductance (μmhos)	Drain-Source Voltage V_{DS} (Volts)	Current (mA _{DC})	Gate-Source Breakdown Voltage $V_{(BR)GSS}$ (Volts)	Gate Reverse Current I_{GSS} (nA _{DC})	Zero-Gate Voltage Drain Current I_{DSS} (mA _{DC})	Total Device Dissipation P_D (mW)	Operating Junction Temperature T_J ($^\circ\text{C}$)	Case
801	3000 min	20	15 I_D	20	1.0	1.0 to 9.0 ^①	200	125	TO-72(A)
802	2000 min	25	10 I_G	25	1.0	2.0 to 20 ^①	200	125	TO-92(E)
F0021	3500 min	25	30 I_D	25	1.0	8.0 to 20 ^①	310	150	TO-92(E)

P-CHANNEL J FET

803	1000 min	40	20 I_D	40	2.0	1.0 to 7.0 ^①	200	175	TO-72(D)
F1035	1000 min	40	20 I_D	40	10	0.5 to 14 ^①	310	135	TO-92(F)

N-CHANNEL MOS FET

F2005	2000 min	20	10 I_D	30	50 pA	2.0 to 10	300	175	TO-72(A)
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N-CHANNEL DUAL GATE MOS FET

F2004	6000 min	20	50 I_D	1.0	1.0	5.0 to 30	400	175	TO-72(B)
F2007	10,000 min	25	30 I_D	20	20	5.0 to 30	500	175	206

① Pulse Test: Pulse width ≤ 630 ms; duty cycle $\leq 10\%$

SILICON CONTROLLED RECTIFIERS

THYRISTORS

MAXIMUM RATINGS AND CHARACTERISTICS ($T_J = 100^\circ\text{C}$)											
HEP Type No.	Peak Reverse Voltage V_{RM} (Volts)	Typical Gate Trigger Current I_{GT} (mA)	Peak Gate Voltage		Forward Current RMS (all conduction angles) I_f (Amp)	Forward "ON" Voltage (Typ) V_F (Volts)	Operating Temperature T_J ($^\circ\text{C}$)	Surge Current ($\frac{1}{2}$ cycle, 60 Hz) I_{surge} (Amp)	Holding Current (Typ) I_{HOI} (mA)	Hex Stud Size (inches)	Case
			Fwd V_{GFM} (Volts)	Rev V_{GRM} (Volts)							
300	50	30	10	10	5.0	1.3	-40 to +100	80	10	7/16	86(A)
302	200	30	10	10	5.0	1.3	-40 to +100	80	10	7/16	86(A)
304	50	50	10	10	15	1.3	-40 to +100	200	10	9/16	176(A)
305 ^①	50	50	10	10	15	1.3	-40 to +100	200	10	9/16	175(A)
306	200	50	10	10	15	1.3	-40 to +100	200	10	9/16	175(A)
307 ^①	200	50	10	10	15	1.3	-40 to +100	200	10	9/16	175(A)
320	30	200 μA	5.0	5.0	0.8	2.0	-65 to +125	6.0	5.0		TO-92(G)
620	400	20	10	10	8.0	1.3	-40 to +100	200	25		85
621	400	20	10	10	8.0	1.3	-40 to +100	200	25		87L
622	400	10	10	10	8.0	1.0	-40 to +100	80	10		90(A)
R1001	30	200 μA	5.0	5.0	0.8	1.7	-65 to +125	6.0	5.0		TO-92(G)
R1002	60	200 μA	5.0	5.0	0.8	1.7	-65 to +125	6.0	5.0		TO-92(G)
R1003	100	200 μA	5.0	5.0	0.8	1.7	-65 to +125	6.0	5.0		TO-92(G)
R1004	150	200 μA	5.0	5.0	0.8	1.7	-65 to +125	6.0	5.0		TO-92(G)
R1005	200	200 μA	5.0	5.0	0.8	1.7	-65 to +125	6.0	5.0		TO-92(G)
R1101	50	2.0	10	10	1.6	1.1	-65 to +125	15	5.0		TO-5(B)
R1102	100	2.0	10	10	1.6	1.1	-65 to +125	15	5.0		TO-5(B)
R1103	200	2.0	10	10	1.6	1.1	-65 to +125	15	5.0		TO-5(B)
R1215	30	300 μA	6.0	6.0	4.0	1.5	-40 to +110	25	5.0		77(B)
R1216	60	300 μA	6.0	6.0	4.0	1.5	-40 to +110	25	5.0		77(B)
R1217	100	300 μA	6.0	6.0	4.0	1.5	-40 to +110	25	5.0		77(B)

① Reverse Polarity

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SILICON CONTROLLED RECTIFIERS (Continued)

THYRISTORS (Continued)

MAXIMUM RATINGS AND CHARACTERISTICS (T _J = 100°C)											
HEP Type No.	Peak Reverse Voltage V _{RM} (Volts)	Typical Gate Trigger Current I _{GT} (mA)	Peak Gate Voltage		Forward Current RMS (all conduction angles) I _F (Amp)	Forward "ON" Voltage (Typ) V _F (Volts)	Operating Temperature T _J (°C)	Surge Current (½ cycle, 60 Hz) I _{surge} (Amp)	Holding Current (Typ) H _{OI} (mA)	Hex Stud Size (inches)	Case
			Fwd V _{GF} (Volts)	Rev V _{GRM} (Volts)							
R1218	200	300 μA	6.0	6.0	4.0	1.5	-40 to +110	25	5.0		77(B)
R1220	50	10	10	10	8.0	1.0	-40 to +100	80	10		90(A)
R1221	200	10	10	10	8.0	1.0	-40 to +100	80	10		90(A)
R1222	400	10	10	10	8.0	1.0	-40 to +100	80	10		90(A)
R1223	600	10	10	10	8.0	1.0	-40 to +100	80	10		90(A)
R1241	50	20	10	10	8.0	1.3	-40 to +100	100	25	7/16	86(A)
R1242	100	20	10	10	8.0	1.3	-40 to +100	100	25	7/16	86(A)
R1243	200	20	10	10	8.0	1.3	-40 to +100	100	25	7/16	86(A)
R1244	300	20	10	10	8.0	1.3	-40 to +100	100	25	7/16	86(A)
R1245	400	20	10	10	8.0	1.3	-40 to +100	100	25	7/16	86(A)
R1246	500	20	10	10	8.0	1.3	-40 to +100	100	25	7/16	86(A)
R1247	600	20	10	10	8.0	1.3	-40 to +100	100	25	7/16	86(A)
R1300	25	10	10	10	16	1.2	-40 to +100	250	10	9/16	175(A)
R1301	50	10	10	10	16	1.2	-40 to +100	250	10	9/16	175(A)
R1302	100	10	10	10	16	1.2	-40 to +100	250	10	9/16	175(A)
R1304	200	10	10	10	16	1.2	-40 to +100	250	10	9/16	175(A)
R1306	300	10	10	10	16	1.2	-40 to +100	250	10	9/16	175(A)
R1307	400	10	10	10	16	1.2	-40 to +100	250	10	9/16	175(A)
R1471	50	10	10	10	35	1.2	-40 to +100	325	10	9/16	175(A)
R1472	100	10	10	10	35	1.2	-40 to +100	325	10	9/16	175(A)
R1473	200	10	10	10	35	1.2	-40 to +100	325	10	9/16	175(A)
R1475	400	10	10	10	35	1.2	-40 to +100	325	10	9/16	175(A)

TRIACS

340	Refer to R1751										
R1721	50	30	2.0	2.0	8.0	1.5	-40 to +100	80	20		90(B)
R1722	100	30	2.0	2.0	8.0	1.5	-40 to +100	80	20		90(B)
R1723	200	30	2.0	2.0	8.0	1.5	-40 to +100	80	20		90(B)
R1725	400	30	2.0	2.0	8.0	1.5	-40 to +100	80	20		90(B)
R1750	50	30	2.0	2.0	10	1.5	-40 to +100	80	20	7/16	86(B)
R1751	200	30	2.0	2.0	10	1.5	-40 to +100	80	20	7/16	86(B)
R1752	400	30	2.0	2.0	10	1.5	-40 to +100	80	20	7/16	86(B)
R1781	50	20	3.0	3.0	25	1.3	-40 to +110	225	10	9/16	175(B)
R1782	100	20	3.0	3.0	25	1.3	-40 to +110	225	10	9/16	175(B)
R1783	200	20	3.0	3.0	25	1.3	-40 to +110	225	10	9/16	175(B)
R1785	400	20	3.0	3.0	25	1.3	-40 to +110	225	10	9/16	175(B)

SILICON ZENER DIODES

PLASTIC ELEMENTS (500 mW)

MAXIMUM RATINGS AND CHARACTERISTICS (T _A = 25°C)						
HEP Type No.	Nominal Zener Voltage V _Z @ I _{ZT} (Volts)	Test Current I _{ZT} (mA)	Zener Impedance Z _{ZT} @ I _{ZT} (Ohms)	DC Zener Current I _{ZM} (mA)	Power Dissipation P _D	Case
Z0206 [Ⓢ]	3.3	20	50	152	500 mW	TO-92A(A)
Z0208 [Ⓢ]	3.9	20	40	128	500 mW	TO-92A(A)
Z0210 [Ⓢ]	4.7	20	19	106	500 mW	TO-92A(A)

SILICON ZENER DIODES (Continued)

PLASTIC ELEMENTS (500 mW) (Continued)

MAXIMUM RATINGS AND CHARACTERISTICS ($T_A = 25^\circ\text{C}$)						
HEP Type No.	Nominal Zener Voltage $V_Z @ I_{ZT}$ (Volts)	Test Current I_{ZT} (mA)	Zener Impedance $Z_{ZT} @ I_{ZT}$ (Ohms)	DC Zener Current I_{ZM} (mA)	Power Dissipation P_D	Case
Z0211 ①	5.1	20	17	98	500 mW	TO-92A(A)
Z0212 ①	5.6	20	15	94	500 mW	TO-92A(A)
Z0214 ①	6.2	20	14	80	500 mW	TO-92A(A)
Z0215 ①	6.8	20	17	73	500 mW	TO-92A(A)
Z0217 ①	8.2	20	34	61	500 mW	TO-92A(A)
Z0219 ①	9.1	20	50	55	500 mW	TO-92A(A)
Z0220 ①	10	20	62	50	500 mW	TO-92A(A)
Z0222 ①	12	20	70	41	500 mW	TO-92A(A)
Z0225 ①	15	8.5	34	33	500 mW	TO-92A(A)
Z0228 ①	18	7.0	48	27	500 mW	TO-92A(A)
Z0230 ①	20	6.2	57	25	500 mW	TO-92A(A)
Z0231 ①	22	5.6	68	23	500 mW	TO-92A(A)
Z0234 ①	27	4.6	98	18	500 mW	TO-92A(A)

① $\pm 10\%$ tolerance1-WATT SURMETIC* ELEMENTS ($\pm 10\%$)

101						Refer to Z0220
102						Refer to Z0402
103						Refer to Z0408
104						Refer to Z0412
105						Refer to Z0415
602						Refer to Z0405
603						Refer to Z0407
604						Refer to Z0414
605						Refer to Z0416
606						Refer to Z0417
607						Refer to Z0418
608						Refer to Z0424
609						Refer to Z0426
610						Refer to Z0432
611						Refer to Z0433
612						Refer to Z0436
613						Refer to Z0439
Z0401	3.3	78	10	284	1 W	DO-41
Z0402	3.6	69	10	252	1 W	DO-41
Z0403	3.9	64	9.0	228	1 W	DO-41
Z0405	4.7	53	8.0	193	1 W	DO-41
Z0406	5.1	49	7.0	179	1 W	DO-41
Z0407	5.6	45	5.0	162	1 W	DO-41
Z0408	6.2	41	2.0	146	1 W	DO-41
Z0409	6.8	37	3.5	133	1 W	DO-41
Z0410	7.5	34	4.0	121	1 W	DO-41
Z0411	8.2	31	4.5	112	1 W	DO-41
Z0412	9.1	28	5.0	100	1 W	DO-41
Z0413	10	25	7.0	90	1 W	DO-41
Z0414	11	23	8.0	83	1 W	DO-41
Z0415	12	21	9.0	76	1 W	DO-41
Z0416	13	19	10	69	1 W	DO-41
Z0417	14	18	12	65	1 W	DO-41
Z0418	15	17	14	61	1 W	DO-41
Z0419	16	15.5	16	58	1 W	DO-41

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SILICON ZENER DIODES (Continued)

1-WATT SURMETIC* ELEMENTS ($\pm 10\%$) (Continued)

MAXIMUM RATINGS AND CHARACTERISTICS ($T_A = 25^\circ\text{C}$)						
HEP Type No.	Nominal Zener Voltage $V_Z @ I_{ZT}$ (Volts)	Test Current I_{ZT} (mA)	Zener Impedance $Z_{ZT} @ I_{ZT}$ (Ohms)	DC Zener Current I_{ZM} (mA)	Power Dissipation P_D	Case
Z0420	18	14	20	51	1 W	DO-41
Z0421	20	12.5	22	47	1 W	DO-41
Z0422	22	11.5	23	43	1 W	DO-41
Z0423	24	10.5	25	40	1 W	DO-41
Z0424	27	9.5	35	34	1 W	DO-41
Z0426	33	7.5	45	27	1 W	DO-41
Z0428	39	6.5	60	22	1 W	DO-41
Z0430	47	5.5	80	18	1 W	DO-41
Z0432	56	4.5	110	16	1 W	DO-41
Z0433	62	4.0	125	14	1 W	DO-41
Z0436	82	3.0	200	11	1 W	DO-41
Z0438	100	2.5	350	9.0	1 W	DO-41
Z0439	110	2.3	450	7.2	1 W	DO-41
Z0440	120	2.0	550	7.0	1 W	DO-41
Z0442	150	1.7	1000	5.5	1 W	DO-41
Z0444	180	1.4	1200	4.8	1 W	DO-41
Z0445	200	1.2	1500	4.5	1 W	DO-41

*"Surmetic" is a Motorola trademarked term denoting all devices using special technique to achieve high reliability and greater power handling capability.

5-WATT AXIAL LEAD ELEMENTS ($\pm 10\%$)

Z2500	3.3	380	3.0	1440	5 W	17
Z2502	3.9	320	2.0	1220	5 W	17
Z2504	4.7	260	2.0	1010	5 W	17
Z2506	5.6	220	1.0	865	5 W	17
Z2508	6.2	200	1.0	765	5 W	17
Z2510	7.5	175	1.5	630	5 W	17
Z2513	9.1	150	2.0	520	5 W	17
Z2514	10	125	2.0	475	5 W	17
Z2516	12	100	2.5	395	5 W	17
Z2519	15	75	2.5	315	5 W	17
Z2522	18	65	2.5	264	5 W	17
Z2525	22	50	3.5	216	5 W	17
Z2528	27	50	5.0	176	5 W	17
Z2531	33	40	10	144	5 W	17
Z2537	56	20	35	86	5 W	17
Z2542	82	15	65	58	5 W	17
Z2545	100	12	90	47.5	5 W	17
Z2547	120	10	170	39.5	5 W	17

10-WATT STUD-MOUNT ELEMENTS ($\pm 20\%$)

Z3500	3.9	640	2.0	2380	10 W	DO-4(A)
Z3502	4.7	530	1.2	1940	10 W	DO-4(A)
Z3504	5.6	445	1.0	1620	10 W	DO-4(A)
Z3505	6.2	405	1.1	1460	10 W	DO-4(A)
Z3507	7.5	335	1.3	1210	10 W	DO-4(A)
Z3511	9.1	275	2.0	960	10 W	DO-4(B)
Z3512	10	250	3.0	860	10 W	DO-4(B)
Z3514	12	210	3.0	720	10 W	DO-4(B)
Z3516	15	170	3.0	560	10 W	DO-4(B)

SILICON ZENER DIODES (Continued)

10-WATT STUD-MOUNT ELEMENTS ($\pm 20\%$) (Continued)

MAXIMUM RATINGS AND CHARACTERISTICS ($T_A = 25^\circ\text{C}$)						
HEP Type No.	Nominal Zener Voltage $V_Z @ I_{ZT}$ (Volts)	Test Current I_{ZT} (mA)	Zener Impedance $Z_{ZT} @ I_{ZT}$ (Ohms)	DC Zener Current I_{ZM} (mA)	Power Dissipation P_D	Case
Z3518	18	140	4.0	460	10 W	DO-4(B)
Z3520	22	115	5.0	380	10 W	DO-4(B)
Z3522	27	95	7.0	300	10 W	DO-4(B)
Z3524	33	75	9.0	260	10 W	DO-4(B)
Z3530	56	45	16	150	10 W	DO-4(B)
Z3534	82	30	25	100	10 W	DO-4(B)
Z3536	100	25	40	80	10 W	DO-4(B)

SILICON OPTO DEVICES

PHOTO TRANSISTORS

HEP Type No.	Collector-Emitter Voltage BV_{CEO}	Emitter-Collector Voltage BV_{ECO}	Power Dissipation P_D (mW)	Collector Dark Current I_{CEO} (μA)	Collector-Emitter Radiation Sensitivity S_{RCEO} (mA/mW/cm ²) (minimum)	Angular Alignment For Max Sensitivity θ (degrees)	Case
312	30	5.0	100	1.0	0.1	10	171(A)
P0001	30	5.0	400	5.0	0.4	10	82
P0002	40	6.0	50	5.0	0.09	—	173

DARLINGTON AMPLIFIER PHOTO TRANSISTOR – NPN

HEP Type No.	Collector-Base Voltage V_{CBO}	Collector-Emitter Voltage V_{CEO}	Emitter-Base Voltage V_{EBO}	Collector Light Current I_L (mA)	Power Dissipation P_D (mW)	Case
P1001	18	12	8.0	250	200	TO-92(L)*

*Clear plastic

LIGHT-EMITTING DIODE (LED) – VISIBLE RED

HEP Type No.	Reverse Voltage V_R (Volts)	Forward Current I_F (mA)	Power Dissipation P_D (mW)	Brightness f_L (typical)	Case
P2000	4.0	50	100	450	171(B)
P2001	3.0	40	120	750	234-02
P2003	4.0	50	100	50	171(B)
P2004	4.0	20	120	750	234-02

LIGHT-EMITTING DIODE (LED) – INFRARED

P2002	3.0	80	120	—	171(B)
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RECTIFIERS AND DIODES

GERMANIUM GENERAL PURPOSE DIODES

MAXIMUM RATINGS AND CHARACTERISTICS ($T_A = 25^\circ\text{C}$)					
HEP Type No.	Peak Inverse Voltage PIV (Volts)	Reverse Current I_R (μA)	Forward Current I_F (mA)	Operating Temperature T_O	Case
134	60	30	50	-20 to +90°C	TO-18
135	40	200	30	-20 to +90°C	TO-18

RECTIFIERS AND DIODES (Continued)

SILICON UHF (HOT-CARRIER) DIODE

MAXIMUM RATINGS AND CHARACTERISTICS ($T_J = +125^\circ\text{C}$)						
HEP Type No.	Reverse Voltage V_R	Power Dissipation P_D (mW)	Diode Capacitance C_T (pf)	Noise Figure N_F (dB)	Reverse Leakage I_R (nA)	Case
R0700	4.0	280	0.88	6.0	20	TO-92A(A)

VOLTAGE-VARIABLE CAPACITANCE DIODES

CHARACTERISTICS @ $T_A = 25^\circ\text{C}$						
HEP Type No.	Reverse Voltage V_R (Volts)	Forward Current I_F (mA)	Diode Capacitance (nominal) @ $V_R = 4.0\text{ Vdc}$, $f = 1.0\text{ MHz}$ P_f	Tuning Ratio (typical) $V_R = 2-30\text{ Vdc}$, $f = 1.0\text{ MHz}$ T_R	Power Dissipation P_D (mW)	Case
R2500	30	200	6.8	2.7	280	TO-92A(A)
R2501	30	200	10.0	2.9	280	TO-92A(A)
R2502	30	200	15.0	2.9	280	TO-92A(A)
R2503	30	200	33.0	3.0	280	TO-92A(A)
R2504	30	200	56.0	3.0	280	TO-92A(A)
R2505	30	200	100.0	3.0	280	TO-92A(A)

SILICON GENERAL PURPOSE RECTIFIERS

AXIAL LEAD SURMETIC*

MAXIMUM RATINGS AND CHARACTERISTICS ($T_A = 75^\circ\text{C}$, 60 Hz Sinusoidal)							
HEP Type No.	Peak Inverse Voltage PIV (Volts)	RMS Reverse Voltage V_r (Volts)	Average Rectified Forward Current (Half-Wave) I_O (Amp)	Peak Repetitive Forward Current I_{FM} (rep) (Amp)	Non-Repetitive Peak Surge Current I_{FM} (surge) (Amp)	Operating and Storage Junction Temperature T_J, T_{stg} ($^\circ\text{C}$)	Case
154	Refer to R0050						
156	Refer to R0052						
157	Refer to R0053						
158	Refer to R0054						
159	Refer to R0055						
160	Refer to R0056						
170	1000	700	2.5	12	35	-65 to +175	DO-41
R0050	50	35	1.0	10	30	-65 to +175	DO-41
R0051	100	70	1.0	10	30	-65 to +175	DO-41
R0052	200	140	1.0	10	30	-65 to +175	DO-41
R0053	400	280	1.0	10	30	-65 to +175	DO-41
R0054	600	420	1.0	10	30	-65 to +175	DO-41
R0055	800	560	1.0	10	30	-65 to +175	DO-41
R0056	1000	700	1.0	10	30	-65 to +175	DO-41

*"Surmetic" is a Motorola trademarked term denoting all devices manufactured by a special technique.

AXIAL LEAD FAST RECOVERY RECTIFIERS*

R0600	50	35	1.0	10	30	-65 to +175	DO-41
R0602	200	140	1.0	10	30	-65 to +175	DO-41
R0604	400	280	1.0	10	30	-65 to +175	DO-41

*Typical reverse recovery time (t_{rr}) = 100 nanoseconds

AXIAL LEAD METAL CASE

MAXIMUM RATINGS AND CHARACTERISTICS ($T_A = 25^\circ\text{C}$)							
161	Refer to R0090						
162	Refer to R0092						
R0090	50	35	3.0	25	300	-65 to +175	60
R0091	100	70	3.0	25	300	-65 to +175	60

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RECTIFIERS AND DIODES (Continued)
 SILICON GENERAL PURPOSE RECTIFIERS
 AXIAL LEAD METAL CASE

MAXIMUM RATINGS AND CHARACTERISTICS ($T_A = 75^\circ\text{C}$, 60 Hz Sinusoidal)							
HEP Type No.	Peak Inverse Voltage PIV (Volts)	RMS Reverse Voltage V_r (Volts)	Average Rectified Forward Current (Half-Wave) I_O (Amp)	Peak Repetitive Forward Current $I_{FM}(\text{rep})$ (Amp)	Non-Repetitive Peak Surge Current $I_{FM}(\text{surge})$ (Amp)	Operating and Storage Junction Temperature T_J, T_{stg} ($^\circ\text{C}$)	Case
R0092	200	140	3.0	25	300	-65 to +175	60
R0094	400	280	3.0	25	300	-65 to +175	60
R0096	600	420	3.0	25	300	-65 to +175	60
R0097	800	560	3.0	25	300	-65 to +175	60
R0098	1000	700	3.0	25	300	-65 to +175	60
R0080	50	35	3.0	25	300	-65 to +175	70
R0081	100	70	3.0	25	300	-65 to +175	70
R0082	200	140	3.0	25	300	-65 to +175	70
R0084	400	280	3.0	25	300	-65 to +175	70
R0086	600	420	3.0	25	300	-65 to +175	70

AXIAL LEAD PLASTIC CASE

MAXIMUM RATINGS AND CHARACTERISTICS						
HEP Type No.	Peak Inverse Voltage PIV (Volts)	RMS Reverse Voltage V_r (Volts)	Average Rectified Forward Current Ambient Temp = 60°C P.C. Board Mtg. I_O (Amp)	Average Rectified Forward Current Lead Temp = 60°C Lead Length = 1/8" I_O (Amp)	Non-Repetitive Peak Surge Current I_{FSM} (Amp)	Case
R0100	50	35	6.0	22	400	194
R0101	100	70	6.0	22	400	194
R0102	200	140	6.0	22	400	194
R0104	400	280	6.0	22	400	194
R0106	600	420	6.0	22	400	194

STUD MOUNT

MAXIMUM RATINGS AND CHARACTERISTICS ($T_A = 25^\circ\text{C}$)							
HEP Type No.	Peak Inverse Voltage PIV (Volts)	RMS Reverse Voltage V_r (Volts)	Average Rectified Forward Current (Half-Wave) I_O (Amp)	Peak Repetitive Forward Current $I_{FM}(\text{rep})$ (Amp)	Non-Repetitive Peak Surge Current $I_{FM}(\text{surge})$ (Amp)	Operating and Storage Junction Temperature T_J, T_{stg} ($^\circ\text{C}$)	Case
R0130	50	35	12	75	300	-65 to +190	DO-4(A)
R0131	100	70	12	75	300	-65 to +190	DO-4(A)
R0132	200	140	12	75	300	-65 to +190	DO-4(A)
R0134	400	280	12	75	300	-65 to +190	DO-4(A)
R0136	600	420	12	75	300	-65 to +190	DO-4(A)
R0137	800	560	12	75	300	-65 to +190	DO-4(A)
R0138	1000	700	12	75	300	-65 to +190	DO-4(A)
151	Refer to R0160						
153	Refer to R0162						
R0160	50	35	15	50	250	-65 to +175	DO-5
R0161	100	70	15	50	250	-65 to +175	DO-5
R0162	200	140	15	50	250	-65 to +175	DO-5
R0164	400	280	15	50	250	-65 to +175	DO-5
R0166	600	420	15	50	250	-65 to +175	DO-5
R0250	50	35	35	150	400	-65 to +190	DO-5
R0251	100	70	35	150	400	-65 to +190	DO-5
R0253	200	140	35	150	400	-65 to +190	DO-5
R0254	300	210	35	150	400	-65 to +190	DO-5
R0255	400	280	35	150	400	-65 to +190	DO-5
R0256	500	350	35	150	400	-65 to +190	DO-5
R0257	600	420	35	150	400	-65 to +190	DO-5

PRESS-FIT AND ALTERNATOR REPLACEMENT

MAXIMUM RATING AND CHARACTERISTICS ($T_C = 25^\circ\text{C}$)					
HEP Type No.	Peak Inverse Voltage PIV (Volts)	Average Rectified Forward Current I_O	Non-Repetitive Peak Surge Current I_{FM} (surge)	Storage and Operating Junction Temperature Range ($^\circ\text{C}$)	Case
600*	200	25 A	300 A	-65 to +175	DO-21
601**	200	25 A	300 A	-65 to +175	DO-21
R0220*	50	25 A	300 A	-65 to +175	DO-21
R0222*	200	25 A	300 A	-65 to +175	DO-21

*Cathode to Case (also available anode to case, order MUST state "Reverse Polarity")

**Anode to Case

DUAL DIODES

MAXIMUM RATINGS AND CHARACTERISTICS ($T_A = 25^\circ\text{C}$)							
HEP Type No.	Reverse Voltage V_R (Volts)	Forward Current I_F (mA)	Peak Forward Surge Current I_{FM} (surge) (mA)	Total Device Dissipation P_D (mW)	Reverse Current I_R (μA)	Operating and Storage Junction Temperature T_J, T_{stg} ($^\circ\text{C}$)	Case
165	Refer to R9001						
166	Refer to R9002						
R9001 ①	70	200	500	310	0.1	-55 to +135	TO-92(C)
R9002 ②	70	200	500	310	0.1	-55 to +135	TO-92(D)
R9003 ③	100	200	500	350	0.5	-55 to +150	TO-92(M)

① Common Cathode ② Common Anode ③ Series Connected

BILATERAL TRIGGER DIODE

MAXIMUM RATINGS AND CHARACTERISTICS ($T_A = 50^\circ\text{C}$)										
HEP Type No.	Peak Pulse Current I_{pulse} (Amp)	Typical Breakover Voltage		Typical Breakover Current		Minimum Breakback Voltage		Total Device Dissipation P_D (mW)	Operating Junction Temperature ($^\circ\text{C}$)	Case
		Forward Switching $V_{(BR)F}$ (Volts)	Reverse Switching $V_{(BR)R}$ (Volts)	Forward Switching $I_{(BR)F}$ (μA)	Reverse Switching $I_{(BR)R}$ (μA)	Forward ΔV_F (Volts)	Reverse ΔV_R (Volts)			
311	2.0	28±4	28±4	20	20	7.0	7.0	300	-40 to +100	TO-92A(B)

BIDIRECTIONAL SWITCH

MAXIMUM RATINGS AND CHARACTERISTICS ($T_A = 25^\circ\text{C}$)								
HEP Type No.	Repetitive Peak Forward Current I_{FM} (rep) (Amp)	Forward Anode Current I_F (mA)	Typical Switching Voltage V_S (Volts)	Gate Trigger Current (max) I_{GF} (μA)	Typical Holding Current I_H (mA)	Power Dissipation P_D (mW)	Operating Junction Temperature ($^\circ\text{C}$)	Case
R2001	2.0	200	8.0	100	0.2	300	-55 to +125	TO-92(H)

UNIDIRECTIONAL SWITCH

R2021	2.0	200	8.0	500	1.5	300	-55 to +125	TO-92(K)
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1 AMPERE UNITS FULL-WAVE BRIDGE ASSEMBLIES

MAXIMUM RATINGS AND CHARACTERISTICS ($T_A = 75^\circ\text{C}$)								
HEP Type No.	Peak Inverse Voltage (per cell) PIV (Volts)	RMS Input Voltage V_{IN} (Volts)	DC Output Current I_{out} (Amp)	DC Output Voltage V_{out}		Peak Repetitive Forward Current I_{FM} (rep) (Amp)	Non-Repetitive Peak Surge Current I_{FM} (surge) (Amp)	Case
				Res. Load (Volts)	Cap. Load (Volts)			
175	50	35	1.0	30	50	5.0	32	108
176	200	140	1.0	124	200	5.0	32	108
177	400	280	1.0	250	400	5.0	32	108
178	600	420	1.0	380	600	5.0	32	108

RECTIFIERS AND DIODES (Continued)

1.8 AMPERE UNITS

MAXIMUM RATINGS AND CHARACTERISTICS ($T_A = 75^\circ\text{C}$)								
HEP Type No.	Peak Inverse Voltage (per cell) PIV (Volts)	RMS Input Voltage V_{IN} (Volts)	DC Output Current I_{out} (Amp)	DC Output Voltage V_{out}		Peak Repetitive Forward Current I_{FM} (rep) (Amp)	Non-Repetitive Peak Surge Current I_{FM} (surge) (Amp)	Case
				Res. Load (Volts)	Cap. Load (Volts)			
R0841	50	35	1.8	30	50	8.0	60	216
R0842	100	70	1.8	62	100	8.0	60	216
R0843	200	140	1.8	124	200	8.0	60	216
R0845	400	280	1.8	250	400	8.0	60	216
R0846	600	420	1.8	380	600	8.0	60	216

12 AMPERE UNITS

R0875	50	35	12	30	50	—	300	179-01
R0876	100	70	12	62	100	—	300	179-01
R0877	200	140	12	124	200	—	300	179-01
R0878	400	280	12	250	400	—	300	179-01
R0879	600	420	12	380	600	—	300	179-01

27 AMPERE UNITS

R0880	50	35	27	30	50	—	300	179-02
R0881	100	70	27	62	100	—	300	179-02
R0882	200	140	27	124	200	—	300	179-02
R0883	400	280	27	250	400	—	300	179-02
R0884	600	420	27	380	600	—	300	179-02

INTEGRATED CIRCUITS

EMITTER COUPLED LOGIC (ECL)

MAXIMUM RATINGS AND CHARACTERISTICS ($T_A = 25^\circ\text{C}$)							
HEP Type No.	Logic Function	Power Supply Voltage V_{CC} (Volts)	Typical Fan-Out	Typical Propagation Time (ns)	Power Dissipation P_D (mW)	Case	
553	Half Adder	6.0	5	15	63	71	
554	Bias Driver	6.0	5	15		71	
556	3-Input OR/NOR Gate	6.0	5	15	37	71	
558	J-K Flip-Flop	6.0	5	15	87	71	
C3400P	85-MHz J-K Flip-Flop	5.2	25	6.0	125	TO-116	
C3401P	120-MHz J-K Flip-Flop	5.2	25	6.0	125	TO-116	

RESISTOR TRANSISTOR LOGIC (RTL)

570	Quad-2-Input NOR Gate	4.0	16	12	250	TO-116
571	Dual Buffer	4.0	80	15	250	TO-116
572	Dual J-K Flip-Flop	4.0	10	36	250	TO-116
573	Hex Inverter	4.0	5	48	130	TO-116
580	Dual 2-Input NOR Gate	4.0	4	27	10	TO-99
581	4-Input OR/NOR Gate	4.0	4	60	8.0	TO-99
582	Dual Buffer	4.0	30	52	46	TO-99
583	J-K Flip-Flop	4.0	2	80	23	TO-99
584	Dual 2-Input NOR Gate	4.0	16	12	50	TO-99
C2001P	Quad 2-Input Expander	3.6	—	12	20	TO-116
C2002P	Dual Buffer	3.6	80	20	50	TO-116
C2500P	Dual 4-Input Expander	3.6	—	12	20	TO-116
C2501P	BCD-to-Decimal Decoder	3.6	7	36	100	612
C2502P	Quad 2-Input NOR Gate	3.6	4	27	20	TO-116
C2503P	1 J-K Flip-Flop, 1 Inverter, 2 Buffers	3.6	10/80/80	—/12/15	91/25/25	TO-116

INTEGRATED CIRCUITS (Continued)

HIGH THRESHOLD LOGIC (HTL)

MAXIMUM RATINGS AND CHARACTERISTICS ($T_A = 25^\circ\text{C}$)

HEP Type No.	Logic Function	Power Supply Voltage V_{CC} (Volts)	Typical Fan-Out	Typical Propagation Time (ns)	Power Dissipation P_D (mW)	Case
C0900P	Dual 4-Input Line Driver	15	10	140	180	TO-116
C0901P	Dual J-K Flip-Flop	15	10	3 MHz	200	TO-116
C0902P	Quad 2-Input NAND Gate	15	10	125	176	TO-116
C0903P	Dual 4-Input Expander	15	—	—	—	TO-116
C0904P	Triple 3-Input NAND Gate	15	10	125	132	TO-116
C0905P	Dual 4-Input NAND Gate	15	10	125	88	TO-116
C0906P	Master-Slave R-S Flip-Flop	15	10	3 MHz	160	TO-116
C0907P	Quad Latch	15	10	100	375	TO-116
C0908P	Hex Inverter	15	10	125	192	TO-116
C0909P	Quad 2-Input NAND Gate	15	10	110	176	TO-116
C0910P	Triple Level Translator	15	8	30	104	TO-116
C0911P	Dual Monostable Multivibrator	15	10	75	240	TO-116
C0912P	Dual 2-Wide 2-Input AND-OR-INVERT Gate	15	10	110	160	TO-116

DIODE TRANSISTOR LOGIC (DTL)

C1030P	Dual 4-Input OR/NAND Gate	8.0	8	30	26	TO-116
C1032P	Dual 4-Input Buffer	8.0	25	35	88	TO-116
C1033P	Dual 4-Input Expander	8.0	—	—	—	TO-116
C1035P	Hex Inverter (no pullup resistors)	8.0	8	30	42	TO-116
C1036P	Hex Inverter (with pullup resistors)	8.0	8	30	78	TO-116
C1038P	Decade Counter	8.0	8	30 MHz	150	TO-116
C1039P	Divide-by-Sixteen Counter	8.0	8	30 MHz	150	TO-116
C1044P	Dual 4-Input NAND Power Gate	8.0	27	30	64	TO-116
C1045P	Clocked Flip-Flop	8.0	12	40	60	TO-116
C1046P	Quad 2-Input NAND Power Gate	8.0	8	30	52	TO-116
C1052P	Dual J-K Flip-Flop (Sep. Clock Input)	8.0	12	40	120	TO-116
C1053P	Dual J-K Flip-Flop (Sep. Clock Inputs)	8.0	12	40	120	TO-116
C1057P	Quad 2-Input NAND Buffer	8.0	25	35	170	TO-116
C1058P	Quad 2-Input NAND Power Gate	8.0	27	30	130	TO-116
C1062P	Triple 3-Input NAND Gate	8.0	8	30	39	TO-116

TRANSISTOR TRANSISTOR LOGIC (TTL)

C3000P	Quad 2-Input NAND Gate	5.0	10	13	40	TO-116
C3001P	Quad 2-Input NAND Gate (direct output)	5.0	10	35	40	TO-116
C3002P	Quad 2-Input NOR Gate	5.0	10	13	48	TO-116
C3004P	Hex Inverter	5.0	10	13	60	TO-116
C3010P	Triple 3-Input NAND Gate	5.0	10	13	30	TO-116
C3020P	Dual 4-Input NAND Gate	5.0	10	13	20	TO-116
C3030P	8-Input NAND Gate	5.0	10	13	10	TO-116
C3040P	Dual 4-Input NAND Buffer	5.0	30	13	50	TO-116
C3041P	BCD-to-Decimal Decoder and High-Level Driver	5.0	—	—	104	612
C3050P	Dual 2-Wide 2-Input AND-OR-INVERT Gate	5.0	10	13	28	TO-116
C3073P	Dual J-K Flip-Flop	5.0	—	15 MHz	80	TO-116
C3075P	Quad Latch	5.0	10	30	160	612
C3800P	Decade Counter	5.0	10	20	160	TO-116
C3801P	Divide-by-Twelve Counter	5.0	10	60	160	TO-116
C3802P	Seven-Segment Character Generator	5.0	—	45	240	612
C3803P	Retriggerable Monostable Multivibrator	5.0	8	25	75	TO-116
C3805P	Dual Voltage-Controlled Multivibrator	5.0	7	30 MHz	150	TO-116
C3806P	Phase-Frequency Detector	5.0	10	9.0	85	TO-116

INTEGRATED CIRCUITS (Continued)

LINEAR

MAXIMUM RATINGS AND CHARACTERISTICS ($T_A = 25^\circ\text{C}$)								
HEP Type No.	Description	Power Supply Voltage (Volts)		Typical Voltage Gain (A_V)	Impedances (Ohms)		Power Dissipation PD	Case
		V ⁺	V ⁻		Z _{in}	Z _{out}		
590	High Frequency Amplifier	20		26 dB	1.8 k	100 k	680 mW	71
591	Wide Band Amplifier/Discriminator	10		60 dB	—	—	600 mW	71A
592	Stereo Preamplifier	8.0	8.0	7000 V/V	10 k	1.7 k	400 mW	71
593	Audio Power Amplifier	9.0	9.0	10,18,36 V/V	10 k	0.2	1 W	71
594 ①	FM Multiplex Stereo Demodulator	22		—	20 k	—	150 mW	TO-116
595 ②	FM Multiplex Stereo Demodulator	22		—	20 k	—	150 mW	TO-116

① Has built-in stereo channel separation

② Permits use of external control for maximum separation

C6001	FM IF Amplifier	20		40 dB	—	—	1 W	643	
C6002	Low-Noise Audio Preamplifier	33		90 dB	75 k	100	1 W	644A	
C6003	¼-Watt Audio Amplifier	12		30 dB	33 k	16	250 mW	206A	
C6004	1-Watt Audio Amplifier and Preamp	22		65 dB	1.2 Meg	16	1.2 W	644A	
C6007	Single Toggle Flip-Flop (3 MHz)	19		—	10 k	2.8 k	1 W	206A	
C6008	1-Watt Audio Amplifier and Preamp	20		50 dB	510 k	16	1 W	643A	
C6009	Electronic Attenuator	21		13 dB	—	—	1 W	643A	
C6010	Wide-Band Amplifier	18		68 dB	16 k	33 k	500 mW	206A	
C6011	Dual-Toggle Flip-Flop	19		—	—	—	1 W	643A	
C6012	Voltage Regulator	38		—	—	—	1 W	643A	
C6013	Class A Audio Driver	18		130 V/V	—	—	1 W	206A	
C6014	Voltage Regulator	38		—	—	—	1 W	206A	
C6015	Dual-Toggle Flip-Flop with Reset							643A	
C6016	Class B Audio Driver	Intended for exact replacement							
C6017	Differential/Cascode Amplifier	20		36 dB	—	—	1 W	644A	
C6018	Voltage Regulator	Intended for exact replacement							
C6049G	Positive Power Supply Voltage Regulator	9–35		Reg. Volt Out 2.5–32	Max Load Current 250 mA		680 mW	602A	
C6049R	Positive Power Supply Voltage Regulator	9–35		Reg. Volt Out 2.5–32	Max. Load Current 600 mA		3 W	614	
C6050G	Balanced Modulator/Demodulator	30		—	—	—	680 mW	602A	
C6051L	Dual Operational Amplifier	18	18	45,000	400 k	30	1 W	TO-116	
C6052P	Operational Amplifier	18	18	100,000	1 Meg	75	625 mW	626	
C6053G	Operational Amplifier	18	18	100,000	300 k	4 k	680 mW	TO-99	
C6053L	Operational Amplifier	18	18	100,000	300 k	4 k	575 mW	TO-116	
C6054G	Negative Power Supply Voltage Regulator	9–35		Reg. Volt Out 3.8–32	Max. Load Current 250 mA		680 mW	602A	
C6054R	Negative Power Supply Voltage Regulator	9–35		Reg. Volt Out 3.8–32	Max. Load Current 600 mA		2.4 W	614	
C6055L	Stereo Preamplifier	15	15	10,000 V/V	500 k	20 k	400 mW	TO-116	
C6056P	FM Multiplex Stereo Demodulator	22		—	20k	—	625 mW	TO-116	
C6057P	Chroma Demodulator	Intended for exact replacement							TO-116
C6059P	IF Amplifier with AGC	18		50 dB	—	—	625 mW	626	
C6060P	Wide-Band IF Limiter, Detector, Audio Preamp, and Driver	Intended for exact replacement							TO-116
C6061P	Four-Stage, High-Gain FM/IF Amplifier	15		—	—	—	625 mW	TO-116	
C6062P	IF Amplifier with Quadrature Detector	16		60 dB	—	—	625 mW	TO-116	
C6063P	FM/IF Amplifier, Limiter, Detector, Audio Driver, and Electronic Attenuator	Intended for exact replacement							TO-116
C6064P	Class A Audio Driver	18		130 V/V	24 k	47	625 mW	627	
C6065P	FM Multiplex Stereo Demodulator	Intended for exact replacement							647
C6066P	Chroma Demodulator	Intended for exact replacement							TO-116
C6067G	Chroma Demodulator	Intended for exact replacement							TO-100
C6069G	AFT/Amplifier/Detector/Driver	Intended for exact replacement							686

HEP Semiconductor Catalog

LINEAR (Continued)

MAXIMUM RATINGS AND CHARACTERISTICS (T _A = 25°C)								
HEP Type No.	Description	Power Supply Voltage (Volts)		Typical Voltage Gain (A _v)	Impedances (Ohms)		Power Dissipation P _D	Case
		V ⁺	V ⁻		Z _{in}	Z _{out}		
C6070P	Subcarrier Regenerator	Intended for exact replacement						648
C6071P	Chroma Amplifier	Intended for exact replacement						TO-116
C6072P	Balanced Chroma Demodulator	Intended for exact replacement						TO-116
C6073P	2-Watt Audio Amplifier	Intended for exact replacement						656
C6074P	FM Stereo Demodulator	Intended for exact replacement						647
C6075P	Color Processing Circuit	Intended for exact replacement						TO-116
C6076P	Video IF Amplifier and AGC	Intended for exact replacement						TO-116
C6077P	Color Processing Circuit	Intended for exact replacement						TO-116
C6078R	Power Booster	22	22	400	10	3 W		614
C6079P	Video Detector	Intended for exact replacement						626
C6080P	Stereo Preamplifier	Intended for exact replacement						TO-116
C6081P	Signal Processor	Intended for exact replacement						TO-116
C6082P	IF Amplifier and Quadrature Detector	Intended for exact replacement						647
C6083P	IF Amp/Limiter/FM Detector/Driver/Attenuator	Intended for exact replacement						647
C6085P	Signal Processor	Intended for exact replacement						TO-116
C6087P	Stereo Preamplifier	Intended for exact replacement						TO-116

HOBBY EXPERIMENTER KITS

IC KIT	HEK-1	Contains 2 HEP 580, 1 HEP 581, 1 HEP 582, 1 HEP 583, plus project brochure
FET KIT	HEK-2	Contains 1 HEP 801, 1 HEP 802, 1 HEP 50, 1 HEP 51, plus project brochure
RADIO AMATEUR KIT	HEK-3	Contains 2 HEP 590, 1 HEP 570, plus project brochure
HOME HANDYMAN KIT	HEK-4	Contains 1 HEP 320, 1 HEP 310, 1 HEP 312, 1 HEP 156, 1 HEP 55, plus project brochure.

ACCESSORIES

HEP No.	Description
400	Book – Solid State Projects from Motorola
407	Book – Integrated Circuit Projects from Motorola
408	Book – Field Effect Transistor Projects
409	Build Your Own Home and Car Security – Project Book
410	Silicon Rectifier Handbook
411	Motorola Semiconductor Data Library (3 Volumes)
413	Zener Diode Handbook
415	MELC IC Data Book
416	Linear IC Data Book
A0450	TO-3 Transistor Mounting Kit
A0451	10 Pin IC Sockets (pkg. of 2)
A0452	TO-66 Transistor Mounting Kit
A0453	14 Pin Dual-Inline IC Socket
A0454	8 Pin IC Socket (pkg. of 2)
A0455	TO-36 Transistor Mounting Kit
A0456	DO-4 Stud Device Mounting Kit (7/16" stud, 10-32 thread)
A0457	DO-5 Stud Device Mounting Kit (11/16" stud, 1/4-28 thread)
A0458	16 Pin Dual-Inline IC Socket
A0500	TO-3 Heat Sink
A0501	TO-36 Heat Sink
A0502	TO-5 Heat Sink

HEP Semiconductor Replacement Cross-References

DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
1/2Z3.3T5	Z0206	1/2M6.BA25	Z0215	1-801-003-13	56	1EB60A	R0136	1N64	135	1N308	134
1/2Z3.9T5	Z0208	1/2M6.BAZ10	Z0215	1-801-003-14	56	1EB70A	R0137	1N64A	135	1N309	134
1/2Z4.7T5	Z0210	1/2M6.BBZ	Z0215	1-801-003-15	56	1EB80A	R0137	1N64B	135	1N312	134
1/2Z5.1T5	Z0211	1/2M6.BBZ5	Z0215	1-801-004	55	1EB100A	R0138	1N64G	135	1N315	RO053
1/2Z5.6T5	Z0212	1/2M6.BBZ10	Z0215	1-801-005	238	1E05	R0054	1N64GA	135	1N315A	RO052
1/2Z6.2T5	Z0214	1/2M8.2Z	Z0217	1-801-301-13	240	1ET1	R0052	1N66	135	1N316	RO050
1/2Z6.8T5	Z0215	1/2M8.2Z5	Z0217	1-801-301-14	240	1ET2	R0052	1N69	134	1N316A	RO050
1/2Z8.2T5	Z0217	1/2M8.2Z10	Z0217	1-801-301-15	240	1ET3	R0053	1N69A	134	1N317	RO052
1/2Z9.1T5	Z0219	1/2M9.1Z	Z0219	1-801-308	632	1ET4	R0053	1N71	134	1N317A	RO052
1/2Z10T5	Z0220	1/2M9.1Z5	Z0219	1-801-309	641	1ET5	R0054	1N73	134	1N318	RO052
1/2Z12T5	Z0222	1/2M9.1Z10	Z0219	1-801-310	238	1ET6	R0054	1N74	134	1N318A	RO052
1/2Z15T5	Z0225	1/2M10Z	Z0220	1-801-314	56	1ET7	R0055	1N81	134	1N319	RO053
1/2Z18T5	Z0228	1/2M10Z5	Z0220	1A10425	RO050	1ET8	R0055	1N81A	134	1N319A	RO053
1/2Z20T5	Z0230	1/2M10Z10	Z0220	1A11184	RO050	1ET02	R0050	1N82A	RO700	1N320	RO054
1/2Z22T5	Z0231	1/2M12Z	Z0222	1A11306	134	1ET05	R0050	1N82AG	RO700	1N320A	RO054
1/2Z27T5	Z0234	1/2M12Z5	Z0222	1A11671	RO054	1ET10	R0056	1N82G	RO700	1N321	RO056
1/2Z33T5	Z0236	1/2M12Z10	Z0222	1A12214	RO053	1E23.6	Z0402	1N84	135	1N321A	RO056
1/2Z62T5	Z0433	1/2M14Z	Z0417	1A13719	RO054	1E25.1	Z0405	1N86	134	1N322	RO056
1/2Z82T5	Z0436	1/2M14Z5	Z0417	1A15790	RO050	1E25.6	Z0407	1N87	135	1N322A	RO056
1/2A6.8	Z0215	1/2M14Z10	Z0417	1AC12	Z0415	1E29.1	Z0412	1N87A	135	1N323	RO050
1/2A6.8A	Z0215	1/2M15Z	Z0225	1AC12A	Z0415	1E212	Z0415	1N87G	135	1N323A	RO050
1/2A6.8B	Z0215	1/2M15Z5	Z0225	1AC12B	Z0415	1E215	Z0418	1N87GA	135	1N324	RO052
1/2A8.2	Z0217	1/2M15Z10	Z0225	1AC15	Z0418	1E227	Z0424	1N875	135	1N324A	RO052
1/2A8.2A	Z0217	1/2M18Z	Z0228	1AC15A	Z0418	1F2	RO052	1N87T	135	1N325	RO052
1/2A8.2B	Z0217	1/2M18Z5	Z0228	1AC15B	Z0418	1G8	R0052	1N90	134	1N325A	RO053
1/2A9.1	Z0219	1/2M18Z10	Z0228	1AC27	Z0424	1GD2	134	1N90G	134	1N326	RO053
1/2A9.1A	Z0219	1/2M20Z	Z0230	1AC27A	Z0424	1GD10	134	1N90GA	RO053	1N326A	RO054
1/2A9.1B	Z0219	1/2M20Z5	Z0230	1AC27B	Z0424	1HY40	RO053	1N92	RO053	1N327	RO054
1/2A10	Z0220	1/2M20Z10	Z0230	1AC33	Z0426	1HY50	RO053	1N93	RO053	1N327A	RO054
1/2A10A	Z0220	1/2M22Z	Z0231	1AC33A	Z0426	1HY80	RO055	1N93A	RO053	1N328	RO056
1/2A10B	Z0220	1/2M22Z5	Z0231	1AC33B	Z0426	1HY100	RO055	1N96A	134	1N328A	RO056
1/2A11	Z0414	1/2M22Z10	Z0231	1AC62	Z0433	1JL50	RO050	1N103	135	1N329	RO056
1/2A11A	Z0414	1/2M27Z	Z0234	1AC62A	Z0433	1JL51	RO050	1N104	135	1N329A	RO056
1/2A11B	Z0414	1/2M27Z5	Z0234	1AC62B	Z0433	1JL52	RO052	1N105	135	1N332	RO053
1/2A12	Z0222	1/2M27Z10	Z0234	1AC82	Z0436	1JL53	RO052	1N107	134	1N333	RO053
1/2A12A	Z0222	1/2M33Z	Z0426	1AC82A	Z0436	1JL56	RO054	1N108	134	1N334	RO053
1/2A12B	Z0222	1/2M33Z5	Z0426	1AC82B	Z0436	1JL57	RO054	1N111	134	1N335	RO053
1/2A13	Z0416	1/2M33Z10	Z0426	1AC110	Z0439	1JL58	RO055	1N112	134	1N336	RO052
1/2A13A	Z0416	1/2M62Z	Z0433	1AC110A	Z0439	1JL59	RO055	1N113	134	1N337	RO052
1/2A13B	Z0416	1/2M62Z5	Z0433	1AC110B	Z0439	1JL63	RO056	1N114	134	1N338	RO131
1/2A14	Z0417	1/2M82Z10	Z0433	1AS027	RO097	1JL64	RO056	1N115	134	1N339	RO052
1/2A14A	Z0417	1/2M82Z	Z0436	1AS029	RO098	1K2	RO092	1N116	134	1N340	RO052
1/2A14B	Z0417	1/2M82Z5	Z0436	1B2	176	1M12Z	Z0415	1N116A	134	1N341	RO053
1/2A15	Z0225	1/2M82Z10	Z0436	1B05	RO054	1M12Z5	Z0415	1N117	134	1N342	RO053
1/2A15A	Z0225	1/2M110Z	Z0439	1B05J40	RO053	1M12Z10	Z0415	1N117A	134	1N343	RO053
1/2A15B	Z0225	1/2M110Z5	Z0439	1C05	RO050	1M14Z	Z0417	1N118	134	1N344	RO053
1/2A18	Z0228	1/2M110Z10	Z0439	1C12Z	Z0415	1M14Z5	Z0417	1N118A	134	1N345	RO052
1/2A18A	Z0228	1/2Z14D	Z0417	1C12ZA	Z0415	1M14Z10	Z0417	1N119	134	1N346	RO052
1/2A18B	Z0225	1/2Z14D5	Z0417	1C15Z	Z0418	1M14Z55	Z0417	1N119A	134	1N347	RO131
1/2A20	Z0230	1/2Z14D10	Z0417	1C15ZA	Z0418	1M15Z	Z0418	1N120	134	1N348	RO052
1/2A20A	Z0230	1/2Z15D5	Z0418	1C27Z	Z0424	1M15Z5	Z0418	1N120A	134	1N349	RO052
1/2A20B	Z0230	1/2Z15D10	Z0418	1C27ZA	Z0424	1M15Z10	Z0418	1N125	135	1N350	RO054
1/2A22	Z0231	1/2Z27D	Z0424	1C33Z	Z0426	1M27Z	Z0424	1N126	134	1N351	RO052
1/2A22A	Z0231	1/2Z27D5	Z0424	1C33ZA	Z0426	1M27Z5	Z0424	1N126A	134	1N352	RO052
1/2A22B	Z0231	1/2Z27D10	Z0424	1C62Z	Z0433	1M27Z10	Z0424	1N128	135	1N353	RO052
1/2A27	Z0234	1/2Z33D	Z0426	1C62ZA	Z0433	1M33Z	Z0426	1N132	135	1N354	RO053
1/2A27A	Z0234	1/2Z33D5	Z0426	1C82Z	Z0436	1M33Z5	Z0426	1N133	135	1N355	RO050
1/2A27B	Z0234	1/2Z33D10	Z0426	1C82ZA	Z0436	1M33Z10	Z0426	1N135	134	1N359A	RO050
1/2A33	Z0426	1/2Z62D	Z0433	1C110Z	Z0439	1M62Z	Z0433	1N139	134	1N360	RO052
1/2A33A	Z0426	1/2Z62D5	Z0433	1C110ZA	Z0439	1M62Z5	Z0433	1N144	134	1N360A	RO052
1/2A33B	Z0426	1/2Z62D10	Z0433	1D5.1A	Z0405	1M62Z10	Z0433	1N145	135	1N361	RO052
1/2A56	Z0432	1/2Z82D	Z0436	1D5.1B	Z0405	1M82Z	Z0436	1N148	135	1N362A	RO052
1/2A56A	Z0432	1/2Z82D5	Z0436	1D5.6	Z0407	1M82Z5	Z0436	1N151	RO052	1N362	RO053
1/2A56B	Z0432	1/2Z82D10	Z0436	1D5.6A	Z0407	1M82Z10	Z0436	1N152	RO052	1N362A	RO053
1/2A62	Z0433	1/2Z110D	Z0439	1D5.6B	Z0407	1M110Z	Z0439	1N153	RO053	1N363	RO054
1/2A62A	Z0433	1/2Z110D5	Z0439	1D6.2A	Z0408	1M110Z5	Z0439	1N158	RO053	1N363A	RO054
1/2A62B	Z0433	1/2Z110D10	Z0439	1D6.2B	Z0408	1M110Z10	Z0439	1N191	134	1N364	RO056
1/2A82	Z0436	1/2Z12D5	Z0415	1D6.25A	Z0408	1M110Z510	Z0439	1N192	134	1N364A	RO056
1/2A82A	Z0436	1/2Z12D10	Z0415	1D6.25B	Z0408	1M120Z510	Z0440	1N195	134	1N365	RO056
1/2A82B	Z0436	1/2Z12D10	Z0408	1E1	RO052	1M150Z510	Z0442	1N227	Z0416	1N365A	RO056
1/2A110	Z0439	1/2Z15D5	Z0408	1E2	RO052	1M180Z510	Z0444	1N227A	Z0416	1N367	RO056
1/2A110A	Z0439	1/2Z15D10	Z0408	1E3	RO053	1M200Z510	Z0445	1N248	RO160	1N368	RO052
1/2A110B	Z0439	1/2Z15D10	Z0215	1E4	RO053	1M8513A	RO054	1N248A	RO250	1N373	Z0402
1/2A23.6D5	Z0402	1/2Z5N8.2	Z0217	1E5	RO054	1MJJ3.6	Z0402	1N248B	RO250	1N376	Z0405
1/2A23.6D10	Z0402	1/2Z5N9.1	Z0219	1E6	RO054	1MJJ3.6A	Z0402	1N248C	RO250	1N417	134
1/2A25.1D	Z0405	1/2Z5N10	Z0220	1E7	RO055	1MJJ6.2	Z0408	1N249	RO161	1N418	134
1/2A25.1D5	Z0405	1/2Z5N12	Z0222	1E8	RO055	1MJJ6.2A	Z0408	1N249A	RO251	1N419	134
1/2A25.1D10	Z0405	1/2Z5N14	Z0417	1E05	RO050	1MJJ9.1	Z0412	1N249B	RO251	1N429	Z0214
1/2A25.6D	Z0407	1/2Z5N15	Z0225	1E10	RO056	1MJJ9.1A	Z0412	1N249C	RO251	1N435	134
1/2A25.6D5	Z0407	1/2Z5N18	Z0228	1E12Z	Z0415	1MJJ1.2	Z0415	1N250	RO162	1N440	RO052
1/2A25.6D10	Z0407	1/2Z5N20	Z0230	1E12Z5	Z0415	1MJJ12A	Z0415	1N250A	RO253	1N440B	RO052
1/2A26.2D5	Z0408	1/2Z5N22	Z0231	1E12Z10	Z0415	1N34	134	1N250B	RO253	1N441	RO052
1/2LZ3.6D	Z0402	1/2Z5N27	Z0234	1E14Z	Z0417	1N34A	134	1N250C	RO253	1N441B	RO052
1/2LZ3.6D5	Z0402	1/2Z5N33	Z0426	1E14Z5	Z0417	1N34AS	134	1N253	RO131	1N442	RO053
1/2LZ5.6D	Z0407	1/2Z5N62	Z0433	1E14Z10	Z0417	1N34G	134	1N254	RO052	1N442B	RO053
1/2LZ5.6D5	Z0407	1/2Z5N82	Z0436	1E15Z	Z0418	1N34GA	134	1N255	RO052	1N443	RO053
1/2LZ5.6D10	Z0407	1/2Z5N110	Z0439	1E15Z5	Z0418	1N35	134	1N256	RO054	1N443B	RO053
1/2LZ6.2D	Z0408	1/2Z5N15	Z0418	1E15Z10	Z0418	1N36	134	1N266	134	1N444	RO054
1/2LZ6.2D5	Z0408	1/2Z5N5.1	Z0405	1E27Z	Z0424	1N40	134	1N267	134	1N444B	RO054
1/2M3.3AZ	Z0206	1/2Z5N5.6	Z0407	1E27Z5	Z0424	1N41	134	1N268	134	1N445	RO054
1/2M3.3AZ5	Z0206	1/2Z5N6.2	Z0408	1E27Z10	Z0424	1N43	134	1N273	135	1N445B	RO054
1/2M3.3AZ10	Z0206	1/2Z5N12	Z0415	1E33Z	Z0426	1N46	134	1N276	134	1N447	RO054
1/2M3.6AZ5	Z0402	1/2Z5N27	Z0424	1E33Z5	Z0426	1N48	134	1N278	134	1N448	RO052
1/2M3.6AZ10	Z0402	1/2Z5N33	Z0426	1E33Z10	Z0426	1N49	134	1N279	134	1N449	134
1/2M3.9AZ	Z0208	1/2Z5N62	Z0433	1E62Z	Z0433	1N50	134	1N281	134	1N451	RO052
1/2M3.9AZ5	Z0208	1/2Z5N82	Z0436	1E62Z5	Z0433	1N51	134	1N283	134	1N452	134
1/2M3.9AZ10	Z0208	1/2Z5N110	Z0439	1E62Z10	Z0433	1N54	134	1N287	134	1N453	RO052
1/2M4.7AZ	Z0210	0-008									

HEP Semiconductor Replacement Cross-References

DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
1N462A	R0052	1N606	R0054	1N746	Z0206	1N889	R0056	1N1102	R0053	1N1230B	R0132
1N463	R0052	1N606A	R0054	1N746A	Z0206	1N909	R0053	1N1103	R0053	1N1231	R0134
1N463A	R0052	1N607	R0130	1N747	Z0402	1N910	135	1N1104	R0054	1N1231A	R0134
1N464	R0052	1N607A	R0130	1N747A	Z0402	1N911	135	1N1105	R0054	1N1231B	R0134
1N464A	R0052	1N608	R0131	1N748	Z0208	1N914	R0052	1N1115	R0131	1N1232	R0134
1N468	Z0405	1N608A	R0131	1N748A	Z0208	1N941	R0054	1N1116	R0132	1N1232A	R0134
1N468A	Z0405	1N609	R0132	1N750	Z0210	1N941A	Z0414	1N1117	R0134	1N1232B	R0134
1N468B	Z0405	1N609A	R0132	1N750A	Z0210	1N941B	Z0414	1N1118	R0134	1N1233	R0136
1N471	Z0402	1N610	R0132	1N751	Z0211	1N942	Z0414	1N1119	R0136	1N1233A	R0136
1N473	Z0405	1N610A	R0132	1N751A	Z0211	1N945	Z0414	1N1120	R0136	1N1233B	R0136
1N473A	Z0405	1N611	R0134	1N752	Z0212	1N945A	Z0414	1N1124	R0132	1N1234	R0136
1N473B	Z0405	1N611A	R0134	1N752A	Z0212	1N945B	Z0414	1N1124A	R0134	1N1234A	R0136
1N480	Z0405	1N612	R0134	1N753	Z0214	1N946	Z0414	1N1125	R0134	1N1234B	R0136
1N482	R0050	1N612A	R0134	1N753A	Z0214	1N946A	Z0414	1N1125A	R0134	1N1235	R0137
1N482A	R0050	1N613	R0136	1N754	Z0215	1N946B	Z0414	1N1126	R0134	1N1235A	R0137
1N482B	R0050	1N613A	R0136	1N754A	Z0215	1N947	R0054	1N1126A	R0136	1N1235B	R0137
1N483	R0052	1N614	R0136	1N756	Z0217	1N949	134	1N1127	R0136	1N1236	R0137
1N483A	R0052	1N614A	R0136	1N756A	Z0217	1N954	R2503	1N1127A	R0136	1N1236A	R0137
1N483B	R0052	1N616	134	1N757	Z0219	1N957	Z0215	1N1128	R0136	1N1236B	R0137
1N484	R0052	1N625	R0050	1N757A	Z0219	1N957A	Z0215	1N1128A	R0137	1N1251	R0050
1N484A	R0052	1N626	R0050	1N758	Z0220	1N957B	Z0215	1N1169	R0053	1N1252	R0052
1N484B	R0052	1N627	R0052	1N758A	Z0220	1N959	Z0217	1N1169A	R0053	1N1253	R0052
1N485	R0052	1N628	R0052	1N759	Z0222	1N959A	Z0217	1N1183	R0250	1N1254	R0053
1N485A	R0052	1N629	R0052	1N759A	Z0222	1N959B	Z0217	1N1184	R0251	1N1255	R0053
1N485B	R0052	1N631	134	1N760	135	1N960	Z0219	1N1185	R0253	1N1255A	R0053
1N486	R0053	1N632	134	1N761	Z0405	1N960A	Z0219	1N1186	R0253	1N1256	R0054
1N486A	R0053	1N636	134	1N761-2	Z0211	1N960B	Z0219	1N1187	R0254	1N1257	R0054
1N486B	R0053	1N643A	R0052	1N761A	Z0405	1N961	Z0220	1N1188	R0255	1N1258	R0055
1N487	R0053	1N645	R0053	1N762-1	Z0212	1N961A	Z0220	1N1189	R0256	1N1259	R0055
1N487A	R0053	1N645A	R0052	1N765	Z0220	1N961B	Z0220	1N1190	R0257	1N1260	R0056
1N488	R0053	1N645B	R0052	1N765-1	Z0220	1N962	Z0414	1N1191A	R0250	1N1261	R0056
1N488A	R0053	1N646	R0053	1N765A	Z0220	1N962A	Z0414	1N1192	R0251	1N1301	R0250
1N492A	Z0414	1N647	R0054	1N766	Z0416	1N962B	Z0414	1N1192A	R0251	1N1302	R0251
1N492B	Z0414	1N648	R0054	1N766-1	Z0222	1N963	Z0222	1N1193	R0253	1N1303	R0253
1N493	Z0414	1N649	R0054	1N766-3	Z0417	1N963A	Z0222	1N1193A	R0253	1N1306	R0254
1N493A	Z0414	1N658	R0052	1N766A	Z0416	1N963B	Z0222	1N1194	R0253	1N1313A	Z0412
1N493B	Z0414	1N659	R0050	1N767-1	Z0225	1N965	Z0225	1N1194A	R0253	1N1314	Z0220
1N497	135	1N662	R0050	1N768-1	Z0228	1N965A	Z0225	1N1195	R0254	1N1314A	Z0220
1N498	134	1N663	R0052	1N768-3	Z0230	1N965B	Z0225	1N1195A	R0254	1N1315	Z0415
1N500	134	1N664	Z0217	1N769-1	Z0231	1N967	Z0228	1N1196	R0255	1N1315A	Z0415
1N503	R0050	1N665	Z0222	1N770	134	1N967A	Z0228	1N1196A	R0255	1N1337-5	R0053
1N504	R0052	1N666	Z0225	1N772A	134	1N967B	Z0228	1N1197	R0256	1N1341	R0130
1N505	R0052	1N667	Z0228	1N773	134	1N968	Z0230	1N1197A	R0256	1N1341A	R0130
1N506	R0053	1N668	Z0231	1N773A	134	1N968A	Z0230	1N1198	R0257	1N1341B	R0130
1N507	R0053	1N669	Z0234	1N774	134	1N968B	Z0230	1N1198A	R0257	1N1342	R0131
1N508	R0054	1N673	R0053	1N774A	134	1N969	Z0231	1N1199	R0130	1N1342A	R0131
1N509	R0055	1N674	Z0210	1N775	134	1N969A	Z0231	1N1199A	R0130	1N1342B	R0131
1N510	R0056	1N675	Z0214	1N776	135	1N969B	Z0231	1N1199B	R0130	1N1343	R0132
1N511	R0050	1N676	R0052	1N777	134	1N971	Z0234	1N1200	R0131	1N1343A	R0132
1N512	R0052	1N677	R0052	1N781	134	1N971A	Z0234	1N1200A	R0131	1N1343B	R0132
1N513	R0052	1N678	R0052	1N788	134	1N971B	Z0234	1N1200B	R0131	1N1344	R0132
1N514	R0053	1N679	R0052	1N805	134	1N973	Z0426	1N1201	R0132	1N1344A	R0132
1N515	R0053	1N681	R0053	1N821	Z0214	1N973A	Z0426	1N1201A	R0132	1N1344B	R0132
1N516	R0054	1N682	R0053	1N821A	Z0214	1N973B	Z0426	1N1201B	R0132	1N1345	R0134
1N517	R0055	1N683	R0053	1N822	Z0214	1N980	Z0433	1N1202	R0132	1N1345A	R0134
1N518	R0056	1N684	R0053	1N822A	Z0214	1N980A	Z0433	1N1202A	R0132	1N1345B	R0134
1N519	R0050	1N685	R0054	1N823	Z0214	1N980B	Z0433	1N1202B	R0132	1N1346	R0134
1N520	R0052	1N686	R0054	1N823A	Z0214	1N983	Z0436	1N1203	R0134	1N1346A	R0134
1N521	R0052	1N687	R0054	1N824	Z0214	1N983A	Z0436	1N1203A	R0134	1N1346B	R0134
1N522	R0053	1N689	R0054	1N824A	Z0214	1N983B	Z0436	1N1203B	R0134	1N1347	R0136
1N523	R0053	1N690	R0050	1N825	Z0214	1N986	Z0439	1N1204	R0134	1N1347A	R0136
1N524	R0054	1N692	R0052	1N825A	Z0214	1N986A	Z0439	1N1204A	R0134	1N1347B	R0136
1N525	R0055	1N695	135	1N827	Z0214	1N986B	Z0439	1N1204B	R0134	1N1348	R0136
1N526	R0056	1N695A	135	1N827A	Z0214	1N987	Z0440	1N1205	R0136	1N1348A	R0136
1N527	135	1N698	135	1N829	Z0214	1N987A	Z0440	1N1205A	R0136	1N1348B	R0136
1N530	R0052	1N701	Z0220	1N829A	Z0214	1N987B	Z0440	1N1205B	R0136	1N1351	Z3512
1N531	R0052	1N708	Z0212	1N835	135	1N994	135	1N1206	R0136	1N1351A	Z3512
1N532	R0053	1N708A	Z0212	1N846	R0050	1N995	135	1N1206A	R0136	1N1351B	Z3512
1N533	R0053	1N708B	Z0212	1N847	R0052	1N996	135	1N1206B	R0136	1N1353	Z3512
1N534	R0054	1N709	Z0214	1N848	R0052	1N1008	R0053	1N1217	R0090	1N1353A	Z3514
1N535	R0054	1N709A	R0050	1N849	R0053	1N1028	R0050	1N1217A	R0090	1N1353B	Z3514
1N536	R0050	1N709B	R0050	1N850	R0053	1N1029	R0052	1N1217B	R0090	1N1355	Z3516
1N537	R0052	1N710	Z0215	1N851	R0054	1N1030	R0052	1N1218	R0091	1N1355A	Z3516
1N538	R0053	1N710A	Z0215	1N852	R0054	1N1031	R0052	1N1218A	R0091	1N1355B	Z3516
1N539	R0053	1N710B	Z0215	1N853	R0055	1N1032	R0053	1N1218B	R0091	1N1357	Z3518
1N540	R0053	1N712	Z0217	1N854	R0055	1N1033	R0053	1N1219	R0092	1N1357A	Z3518
1N541	134	1N712A	Z0217	1N855	R0056	1N1034	R0160	1N1219A	R0092	1N1357B	Z3518
1N542	134	1N712B	Z0217	1N856	R0056	1N1035	R0052	1N1219B	R0092	1N1359	Z3520
1N547	R0054	1N713	Z0219	1N857	R0050	1N1036	R0052	1N1220	R0092	1N1359A	Z3520
1N548	R0056	1N713A	Z0219	1N858	R0052	1N1037	R0052	1N1220A	R0092	1N1359B	Z3520
1N550	R0052	1N713B	Z0219	1N859	R0052	1N1038	R0053	1N1220B	R0092	1N1361	Z3522
1N551	R0052	1N714	Z0220	1N860	R0053	1N1039	R0053	1N1221	R0094	1N1361A	Z3522
1N552	R0053	1N714A	Z0220	1N861	R0053	1N1040	R0160	1N1221A	R0094	1N1361B	Z3522
1N553	R0053	1N714B	Z0220	1N862	R0054	1N1041	R0052	1N1221B	R0094	1N1363	Z3524
1N554	R0054	1N716	Z0222	1N863	R0054	1N1042	R0052	1N1222	R0094	1N1363A	Z3524
1N555	R0054	1N716A	Z0222	1N864	R0055	1N1043	R0052	1N1222A	R0094	1N1363B	Z3524
1N560	R0056	1N716B	Z0222	1N865	R0055	1N1044	R0053	1N1222B	R0094	1N1369	Z3530
1N561	R0056	1N718	Z0225	1N866	R0056	1N1045	R0053	1N1223	R0096	1N1369A	Z3530
1N562	R0055	1N718A	Z0225	1N867	R0056	1N1046	R0050	1N1223A	R0096	1N1369B	Z3530
1N563	R0056	1N718B	Z0225	1N868	R0050	1N1047	R0052	1N1223B	R0096	1N1373	Z3534
1N568	134	1N720	Z0228	1N869	R0052	1N1048	R0052	1N1224	R0096	1N1373A	Z3534
1N569	135	1N720A	Z0228	1N870	R0052	1N1049	R0052	1N1224A	R0096	1N1373B	Z3534
1N571	135	1N720B	Z0228	1N871	R0053	1N1050	R0053	1N1224B	R0096	1N1375	Z3536
1N596	R0054	1N721	Z0230	1N872	R0053	1N1052	R0090	1N1225	R0097	1N1375A	Z3536
1N597	R0055	1N721A	Z0230	1N873	R0054	1N1053	R0091	1N1225A	R0097	1N1406	R0054
1N598	R0056	1N721B	Z0230	1N874	R0054	1N1054	R0092	1N1225B	R0097	1N1407	R0055
1N599	R0050	1N722	Z0231	1N875	R0055	1N1055	R0092	1N1226	R0097	1N1408	R0056
1N599A	R0050	1N722A	Z0231	1N876	R0055	1N1056	R0094	1N1226A	R0097	1N1415	R0053
1N600	R0052	1N722B	Z0231	1N877	R0056	1N1057	R0094	1N1226B	R0097	1	

HEP Semiconductor Replacement Cross-References

DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
1N1442	R0053	1N1612	R0130	1N1911	R0094	1N2031	R0136	1N2239A	R0136	1N2520	R0134
1N1443	R0098	1N1612A	R0130	1N1912	R0096	1N2032	Z0405	1N2240	R0137	1N2521	R0134
1N1443A	R0056	1N1613	R0131	1N1913	R0096	1N2036	R0054	1N2240A	R0137	1N2522	R0136
1N14438	R0098	1N1613A	R0131	1N1914	R0097	1N2037	Z0416	1N2241	R0137	1N2523	R0136
1N1444	R0138	1N1614	R0132	1N1915	R0097	1N2037-1	Z0415	1N2241A	R0137	1N2524	R0090
1N1444A	R0138	1N1614A	R0132	1N1916	R0098	1N2037-3	Z0417	1N2242	R0138	1N2525	R0131
1N14448	R0138	1N1615A	R0134	1N1927	Z0208	1N2038-1	Z0418	1N2242A	R0138	1N2526	R0132
1N1482	Z3502	1N1616	R0136	1N1927A	Z0208	1N2041	Z0405	1N2243	R0138	1N2527	R0134
1N1483	Z3505	1N1616A	R0136	1N19278	Z0208	1N2041-2	Z0405	1N2243A	R0138	1N2528	R0134
1N1485	Z0408	1N1617	R0091	1N1928	Z0210	1N2043-3	Z3507	1N2246	R0130	1N2529	R0136
1N1486	R0054	1N1618	R0092	1N1928A	Z0210	1N2045-1	Z3512	1N2246A	R0130	1N2530	R0136
1N1487	R0052	1N1619	R0094	1N19288	Z0210	1N2046	Z0416	1N2247	R0130	1N2531	R0137
1N1488	R0052	1N1620	R0094	1N1929	Z0212	1N2046-1	Z3514	1N2247A	R0130	1N2532	R0137
1N1489	R0053	1N1621	R0131	1N1929A	Z0212	1N2047-1	Z3516	1N2248	R0131	1N2533	R0138
1N1490	R0053	1N1622	R0132	1N19298	Z0212	1N2048-1	Z3518	1N2248A	R0131	1N2534	R0138
1N1491	R0054	1N1623	R0134	1N1930	Z0215	1N2049-1	Z3520	1N2249	R0131	1N2535	R0090
1N1492	R0054	1N1624	R0134	1N1930A	Z0215	1N2069	R0052	1N2249A	R0131	1N2536	R0131
1N1508	Z0405	1N1644	R0050	1N1931	Z0217	1N2069A	R0052	1N2250	R0132	1N2537	R0132
1N1508A	Z0405	1N1645	R0052	1N1931A	Z0217	1N2070	R0053	1N2250A	R0132	1N2538	R0134
1N1509	Z0407	1N1646	R0052	1N1932	Z0220	1N2070A	R0053	1N2251	R0132	1N2539	R0134
1N1509A	Z0407	1N1647	R0052	1N1932A	Z0220	1N2071	R0054	1N2251A	R0132	1N2540	R0136
1N1513	Z0415	1N1648	R0053	1N19328	Z0220	1N2071A	R0054	1N2252	R0134	1N2541	R0136
1N1513A	Z0415	1N1649	R0053	1N1934	Z0225	1N2072	R0050	1N2252A	R0134	1N2542	R0137
1N1514	Z0418	1N1650	R0053	1N1934A	Z0225	1N2073	R0052	1N2253	R0134	1N2543	R0137
1N1514A	Z0418	1N1651	R0053	1N19348	Z0418	1N2074	R0052	1N2253A	R0134	1N2544	R0138
1N1517	Z0424	1N1652	R0054	1N1935	Z0228	1N2075	R0052	1N2254	R0134	1N2545	R0138
1N1517A	Z0424	1N1653	R0054	1N1935A	Z0228	1N2076	R0053	1N2254A	R0134	1N2546	R0090
1N1519	Z0405	1N1692	R0052	1N19358	Z0228	1N2077	R0053	1N2255	R0134	1N2547	R0131
1N1519A	Z0405	1N1693	R0052	1N1936	Z0231	1N2078	R0053	1N2255A	R0134	1N2548	R0132
1N1520	Z0407	1N1694	R0053	1N1936A	Z0231	1N2079	R0054	1N2256	R0136	1N2549	R0134
1N1520A	Z0407	1N1695	R0053	1N19368	Z0231	1N2080	R0050	1N2256A	R0136	1N2550	R0134
1N1524	Z0415	1N1696	R0054	1N1937	Z0234	1N2081	R0052	1N2257	R0136	1N2551	R0136
1N1524A	Z0415	1N1697	R0054	1N1937A	Z0234	1N2082	R0052	1N2257A	R0136	1N2552	R0136
1N1525	Z0418	1N1701	R0050	1N19378	Z0424	1N2083	R0053	1N2258	R0136	1N2553	R0137
1N1525A	Z0418	1N1702	R0052	1N1938	Z0426	1N2084	R0053	1N2258A	R0136	1N2554	R0137
1N1528	Z0424	1N1703	R0052	1N1938A	Z0426	1N2085	R0054	1N2259	R0136	1N2555	R0138
1N1528A	Z0424	1N1704	R0053	1N19388	Z0426	1N2086	R0054	1N2259A	R0136	1N2556	R0138
1N1537	R0130	1N1705	R0053	1N1943	Z0436	1N2090	R0050	1N2260	R0137	1N2557	R0137
1N1538	R0131	1N1706	R0054	1N1943A	Z0436	1N2091	R0052	1N2260A	R0137	1N2558	R0137
1N1539	R0132	1N1707	R0050	1N19438	Z0436	1N2092	R0052	1N2261	R0137	1N2559	R0138
1N1540	R0132	1N1708	R0052	1N1955	Z0210	1N2093	R0053	1N2261A	R0137	1N2560	R0138
1N1541	R0134	1N1709	R0052	1N1955A	Z0210	1N2094	R0054	1N2262	R0138	1N2561	R0137
1N1542	R0134	1N1710	R0053	1N19558	Z0210	1N2095	R0054	1N2262A	R0138	1N2562	R0137
1N1543	R0136	1N1711	R0053	1N1960	Z0222	1N2096	R0054	1N2263	R0138	1N2563	R0138
1N1544	R0136	1N1712	R0054	1N1960A	Z0222	1N2103	R0050	1N2263A	R0138	1N2564	R0138
1N1551	R0131	1N1730	R0056	1N19608	Z0415	1N2104	R0052	1N2266	R0160	1N2565	R0130
1N1552	R0132	1N1730A	R0056	1N1962	Z0228	1N2105	R0052	1N2267	R0160	1N2566	R0131
1N1553	R0134	1N1735	Z0214	1N1962A	Z0228	1N2106	R0053	1N2268	R0136	1N2567	R0132
1N1554	R0134	1N1763	R0053	1N1963	Z0231	1N2107	R0053	1N2269	R0136	1N2568	R0134
1N1555	R0136	1N1763A	R0053	1N1963A	Z0231	1N2108	R0054	1N2270	R0136	1N2569	R0134
1N1556	R0052	1N1764	R0054	1N1964	Z0234	1N2115	R0053	1N2271	R0136	1N2570	R0136
1N1557	R0054	1N1764A	R0054	1N1964A	Z0234	1N2116	R0053	1N2282	R0254	1N2571	R0136
1N1558	R0053	1N1765	Z0407	1N19648	Z0424	1N2117	R0055	1N2283	R0255	1N2572	R0137
1N1559	R0053	1N1765A	Z0407	1N1965	Z0426	1N2147	R0130	1N2284	R0256	1N2573	R0137
1N1560	R0054	1N1766	Z0408	1N1965A	Z0426	1N2147A	R0130	1N2285	R0257	1N2574	R0138
1N1561	135	1N1766A	Z0408	1N19658	Z0426	1N2148	R0131	1N2289	R0131	1N2575	R0138
1N1562	135	1N1770	Z0412	1N1981	Z0208	1N2148A	R0131	1N2289A	R0131	1N2576	R0130
1N1563	R0092	1N1770A	Z0412	1N1981A	Z0208	1N2149	R0132	1N2290	R0131	1N2577	R0131
1N1563A	R0092	1N1773	Z0415	1N19818	Z0208	1N2149A	R0132	1N2290A	R0131	1N2578	R0132
1N1564	R0092	1N1773A	Z0415	1N1982	Z0210	1N2150	R0134	1N2291	R0132	1N2579	R0134
1N1564A	R0092	1N1775	Z0418	1N1982A	Z0210	1N2150A	R0134	1N2291A	R0134	1N2580	R0134
1N1565	170	1N1775A	Z0418	1N19828	Z0210	1N2151	R0134	1N2292	R0134	1N2581	R0136
1N1565A	170	1N1781	Z0424	1N1983	Z0212	1N2151A	R0134	1N2292A	R0134	1N2582	R0136
1N1566	170	1N1781A	Z0424	1N1983A	Z0212	1N2152	R0136	1N2293	R0134	1N2583	R0137
1N1566A	170	1N1783	Z0426	1N19838	Z0212	1N2152A	R0136	1N2293A	R0134	1N2584	R0137
1N1567	170	1N1783A	Z0426	1N1984	Z0215	1N2153	R0136	1N2326	134	1N2585	R0138
1N1567A	170	1N1793	Z0436	1N1984A	Z0215	1N2153A	R0136	1N2348	R0130	1N2586	R0138
1N1568	170	1N1793A	Z0436	1N1985	Z0217	1N2154	R0250	1N2349	R0131	1N2587	R0130
1N1568A	170	1N1796	Z0439	1N1985A	Z0217	1N2155	R0251	1N2350	R0132	1N2588	R0131
1N1581	R0133	1N1796A	Z0439	1N1986	Z0220	1N2156	R0253	1N2372	R0056	1N2589	R0132
1N1582	R0131	1N1803	Z3504	1N1986A	Z0220	1N2157	R0254	1N2373	R0054	1N2590	R0134
1N1583	R0132	1N1803A	Z3504	1N19868	Z0220	1N2158	R0255	1N2374	R0056	1N2591	R0134
1N1584	R0134	1N18038	Z3504	1N1987	Z0222	1N2159	R0256	1N2390	R0090	1N2592	R0136
1N1585	R0134	1N1804	Z3505	1N1987A	Z0222	1N2160	R0257	1N2391	R0091	1N2593	R0136
1N1586	R0136	1N1804A	Z3505	1N19878	Z0222	1N2216	R0160	1N2392	R0092	1N2594	R0137
1N1587	R0136	1N18048	Z3505	1N1988	Z0225	1N2218	R0136	1N2393	R0094	1N2595	R0137
1N1588	Z3900	1N1806	Z3507	1N1988A	Z0225	1N2219	R0136	1N2399	R0090	1N2596	R0138
1N1588A	Z3500	1N1806A	Z3507	1N19888	Z0225	1N2220	R0136	1N2400	R0092	1N2597	R0138
1N1589	Z3502	1N18068	Z3507	1N1989	Z0228	1N2221	R0136	1N2401	R0092	1N2598	R0130
1N1589A	Z3502	1N1808	Z3511	1N1989A	Z0228	1N2222	R0137	1N2408	R0090	1N2599	R0131
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1N1590A	Z3504	1N18088	Z3511	1N1990	Z0231	1N2223	R0137	1N2410	R0092	1N2601	R0134
1N1593	Z3512	1N1820	Z0407	1N1990A	Z0231	1N2223A	R0137	1N2419	R0162	1N2602	R0134
1N1593A	Z3512	1N1877	Z0415	1N1991	Z0234	1N2224	R0138	1N2482	R0052	1N2603	R0136
1N1594	Z3514	1N1877A	Z0415	1N1991A	Z0234	1N2224A	R0138	1N2483	R0053	1N2604	R0136
1N1594A	Z3514	1N1878	Z0418	1N19918	Z0424	1N2225	R0138	1N2484	R0054	1N2605	R0137
1N1595	Z3516	1N1878A	Z0418	1N1992	Z0426	1N2225A	R0138	1N2485	R0052	1N2606	R0137
1N1595A	Z3516	1N1881	Z0424	1N1992A	Z0426	1N2228	R0130	1N2486	R0053	1N2607	R0138
1N1596	Z3518	1N1881A	Z0424	1N19928	Z0426	1N2228A	R0130	1N2487	R0053	1N2608	R0138
1N1596A	Z3518	1N1882	Z0426	1N1997	Z0436	1N2229	R0130	1N2488	R0054	1N2609	R0050
1N1597	Z3520	1N1882A	Z0426	1N1997A	Z0436	1N2229A	R0130	1N2489	R0054	1N2610	R0052
1N1597A	Z3520	1N1887	Z0436	1N19978	Z0436	1N2230	R0132	1N2491	R0130	1N2611	R0052
1N1599	Z3500	1N1887A	Z0436	1N2013	R0054	1N2230A	R0132	1N2492	R0131	1N2612	R0053
1N1599A	Z3500	1N1895	Z3518	1N2014	R0052	1N2231	R0132	1N2493	R0132	1N2613	R0053
1N1600	Z3502	1N1895A	Z3518	1N2015	R0052	1N2231A	R0132	1N2494	R0134	1N2614	R0054
1N1600A	Z3502	1N1896	Z3520	1N2016	R0052	1N2232	R0134	1N2495	R0134	1N2615	R0054
1N1601	Z3504	1N1896A</									

HEP Semiconductor Replacement Cross-References

DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
1N2795	R0162	1N3146	135	1N3581	Z0414	1N3889	R0160	1N4141	R0092	1N44088	Z0418
1N2796	R0162	1N3160	134	1N3581A	Z0414	1N3890	R0162	1N4142	R0094	1N44104	Z0424
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1N2798	R0164	1N3189	R0052	1N3582	Z0414	1N3895	R0053	1N4144	R0097	1N44148	Z0424
1N2799	R0164	1N3190	R0053	1N3582A	Z0414	1N3919	R0138	1N4145	R0098	1N4416	Z0426
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1N2863	R0054	1N3232	R0056	1N3650	R0138	1N3993	Z3500	1N4174A	Z0426	1N4467	Z2516
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1N2868	R0056	1N3243	R0056	1N3671	R0137	1N4003	R0052	1N4184B	Z0436	1N4487	Z2542
1N2878	R0055	1N3246	R0050	1N3671A	R0137	1N4004	R0053	1N4187	Z0439	1N4489	Z2545
1N2879	R0055	1N3247	R0052	1N3672	R0138	1N4005	R0054	1N4187A	Z0439	1N4491	Z2547
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1N2881	R0056	1N3249	R0053	1N3673	R0138	1N4007	R0056	1N4240	Z0405	1N4503	Z2531
1N2882	R0056	1N3250	R0054	1N3673A	R0138	1N4010	Z0214	1N4245	R0052	1N4506	R0132
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1N2976A	Z3514	1N3280	R0055	1N3689B	Z0424	1N4028A	Z3522	1N4272	Z3522	1N4583	Z0414
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1N2990	Z3524	1N3466	134	1N3701B	Z0436	1N4040A	Z3534	1N4300A	Z0414	1N4626	Z0212
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1N3019	Z0412	1N3491	R0220	1N3750	R0054	1N4065	Z2531	1N4326	Z0412	1N4656	Z0408
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1N3019B	Z0412	1N3492	R0222	1N3752	R0056	1N4070	Z2537	1N4326B	Z0412	1N4663	Z0415
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1N3045	Z0439	1N3518	Z0220	1N3801B	Z2531	1N4106A	Z0415	1N4346	Z0433	1N4708	Z0231
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1N3064	R0602	1N3525	Z0230	1N3811	Z2542	1N4109	Z0225	1N4349A	Z0436	1N4719	R0090
1N3065	R0602	1N3526	Z0231	1N3811A	Z2542	1N4109A	Z0418	1N4349B	Z0436	1N4720	R0091
1N3070	R0602	1N3528	Z0234	1N3811B	Z2542	1N4109B	Z0418	1N4352	Z0439	1N4721	R0092
1N3071	R0602	1N3530	Z0426	1N3813	Z2545	1N4112	Z0228	1N4352A	Z0439	1N4722	R0094
1N3072	R0050	1N3537	Z0415	1N3813A	Z2545	1N4114	Z0230	1N4352B	Z0439	1N4723	R0096
1N3073	R0052	1N3544	R0052	1N3813B	Z2545	1N4115	Z0231	1N4361	R0056	1N4724	R0097
1N3074	R0052	1N3545	R0052	1N3815	Z2547	1N4118	Z0234	1N4364	R0052	1N4725	R0098
1N3075	R0052	1N3546	R0053	1N3815A	Z2547	1N4118A	Z0424	1N4365	R0052	1N4728	Z0401
1N3076	R0053	1N3547	R0053	1N3815B	Z2547	1N4118B	Z0424	1N4366	R0053	1N4728A	Z0401
1N3077	R0053	1N3548	R0054								

HEP Semiconductor Replacement Cross-References

DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
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1N4738	Z0411	1N4906	Z0416	1N5036	Z2531	1N5241	Z0414	1N5405	R0096	1N5531B	Z0414
1N4738A	Z0411	1N4906A	Z0416	1N5036A	Z2531	1N5241A	Z0414	1N5406	R0096	1N5532	Z0222
1N4739	Z0412	1N4907	Z0416	1N5045	Z2537	1N5241B	Z0414	1N5407	R0097	1N5532A	Z0222
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1N4741	Z0414	1N4909	Z0416	1N5051	Z2545	1N5243	Z0416	1N5411	311	1N5533B	Z0416
1N4741A	Z0414	1N4909A	Z0416	1N5051A	Z2545	1N5243A	Z0416	1N5415	R0050	1N5534	Z0417
1N4742	Z0415	1N4910	Z0416	1N5052	R0097	1N5243B	Z0416	1N5416	R0052	1N5534A	Z0417
1N4742A	Z0415	1N4910A	Z0416	1N5053	R0097	1N5244	Z0417	1N5417	R0052	1N5534B	Z0417
1N4743	Z0416	1N4911	Z0416	1N5054	R0098	1N5244A	Z0417	1N5418	R0053	1N5535	Z0225
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1N4750	Z0424	1N4938	R0602	1N5074	Z2525	1N5254	Z0234	1N5445	R2502	1N5562A	Z0412
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1N4765B	Z0219	1N4958A	Z2414	1N5185A	R0100	1N5320	R0052	1N5456C	R2505	1N5575A	Z0426
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1N4766A	Z0219	1N4960	Z2516	1N5186A	R0101	1N5333	Z2500	1N5461	R2500	1N5581	Z0432
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1N4767A	Z0219	1N4960D	Z2516	1N5188	R0104	1N5335	Z2502	1N5461C	R2500	1N5582	Z0433
1N4767B	Z0219	1N4962	Z2519	1N5188A	R0104	1N5335A	Z2502	1N5461D	R2500	1N5582A	Z0433
1N4768	Z0219	1N4962A	Z2519	1N5189	R0106	1N5335B	Z2502	1N5463	R2501	1N5582B	Z0433
1N4768A	Z0219	1N4962B	Z2519	1N5189A	R0106	1N5337	Z2504	1N5463A	R2501	1N5585	Z0436
1N4768B	Z0219	1N4964	Z2522	1N5190	R0106	1N5337A	Z2504	1N5463B	R2501	1N5585A	Z0436
1N4769	Z0219	1N4964A	Z2522	1N5190A	R0106	1N5337B	Z2504	1N5463C	R2501	1N5585B	Z0436
1N4769A	Z0219	1N4964B	Z2522	1N5194	R0052	1N5339	Z2506	1N5463D	R2501	1N5588	Z0439
1N4769B	Z0219	1N4966	Z2525	1N5195	R0052	1N5339A	Z2506	1N5465	R2502	1N5588A	Z0439
1N4770	Z0219	1N4966A	Z2525	1N5196	R0053	1N5339B	Z2506	1N5465A	R2502	1N5588B	Z0439
1N4770A	Z0219	1N4966B	Z2525	1N5197	R0090	1N5341	Z2508	1N5465B	R2502	1N5605	R0052
1N4770B	Z0219	1N4968	Z2528	1N5198	R0091	1N5341A	Z2508	1N5465C	R2502	1N5606	R0052
1N4771	Z0219	1N4968A	Z2528	1N5199	R0092	1N5341B	Z2508	1N5465D	R2502	1N5607	R0052
1N4771A	Z0219	1N4968B	Z2528	1N5200	R0094	1N5343	Z2510	1N5470	R2503	1N5608	R0052
1N4771B	Z0219	1N4970	Z2531	1N5201	R0096	1N5343A	Z2510	1N5470A	R2503	1N5609	R0052
1N4772	Z0219	1N4970A	Z2531	1N5206	R0096	1N5343B	Z2510	1N5470B	R2503	1N5614	R0052
1N4772A	Z0219	1N4970B	Z2531	1N5207	R0104	1N5346	Z2513	1N5470C	R2503	1N5615	R0052
1N4772B	Z0219	1N4976	Z2537	1N5208	R0052	1N5346A	Z2513	1N5470D	R2503	1N5616	R0053
1N4773	Z0219	1N4976A	Z2537	1N5209	R0052	1N5346B	Z2513	1N5473	R2504	1N5617	R0053
1N4773A	Z0219	1N4976B	Z2537	1N5210	R0052	1N5347	Z2514	1N5473A	R2504	1N5618	R0054
1N4773B	Z0219	1N4980	Z2542	1N5211	R0052	1N5347A	Z2514	1N5473B	R2504	1N5619	R0054
1N4774	Z0219	1N4980A	Z2542	1N5212	R0053	1N5347B	Z2514	1N5473C	R2504	1N5620	R0055
1N4774A	Z0219	1N4980B	Z2542	1N5213	R0054	1N5349	Z2516	1N5473D	R2504	1N5621	R0055
1N4774B	Z0219	1N4982	Z2545	1N5214	R0055	1N5349A	Z2516	1N5476	R2505	1N5622	R0056
1N4816	R0090	1N4982A	Z2545	1N5215	R0052	1N5349B	Z2516	1N5476A	R2505	1N5624	R0102
1N4817	R0091	1N4982B	Z2545	1N5216	R0053	1N5352	Z2519	1N5476B	R2505	1N5625	R0104
1N4818	R0092	1N4984	Z2547	1N5217	R0054	1N5352A	Z2519	1N5476C	R2505	1N5626	R0106
1N4819	R0094	1N4984A	Z2547	1N5218	R0056	1N5352B	Z2519	1N5476D	R2505	1N5632	Z0412
1N4820	R0094	1N4984B	Z2547	1N5220	R0050	1N5355	Z2522	1N5518	Z0206	1N5632A	Z0412
1N4821	R0096	1N4997	R0080	1N5226	Z0206	1N5355A	Z2522	1N5518A	Z0206	1N5634	Z0414
1N4822	R0096	1N4998	R0081	1N5226A	Z0206	1N5358	Z2525	1N5518B	Z0206	1N5634A	Z0414
1N4842	Z0424	1N4999	R0082	1N5226B	Z0206	1N5358A	Z2525	1N5519	Z0402	1N5635	Z0415
1N4842A	Z0424	1N5000	R0084	1N5227	Z0402	1N5358B	Z2525	1N5519A	Z0402	1N5635A	Z0415
1N4842B	Z0424	1N5001	R0086	1N5227A	Z0402	1N5361	Z2528	1N5519B	Z0402	1N5636	Z0416
1N4844	Z0426	1N5004	R0062	1N5227B	Z0402	1N5361A	Z2528	1N5520	Z0402	1N5636A	Z0416
1N4844A	Z0426	1N5005	R0052	1N5228	Z0208	1N5361B	Z2528	1N5520A	Z0208	1N5637	Z0418
1N4844B	Z0426	1N5006	R0053	1N5228A	Z0208	1N5364	Z2531	1N5520B	Z0208	1N5637A	Z0418
1N4854	Z0436	1N5007	R0054	1N5228B	Z0208	1N5364A	Z2531	1N5520C	Z0208	1N5637B	Z0418
1N4854A	Z0436	1N5008	Z2500	1N5230	Z0210	1N5364B	Z2531	1N5522	Z0210	1N5643A	Z0424
1N4854B	Z0436	1N5008A	Z2500	1N5230A	Z0210	1N5370	Z2537	1N5522A	Z0210	1N5645	Z0426
1N4857	Z0439	1N5010	Z2502	1N5230B	Z0210	1N5370A	Z2537	1N5522B	Z0210	1N5645A	Z0426
1N4857A	Z0439	1N5010A	Z2502	1N5231	Z0211	1N5370B	Z2537	1N5523	Z0211	1N5651	Z0432
1N4857B	Z0439	1N5012	Z2504	1N5231A	Z0211	1N5375	Z2542	1N5523A	Z0211	1N5651A	Z0432
1N4883	Z2516	1N5012A	Z2504	1N5231B	Z0211	1N5375A	Z2542	1N5523B	Z0211	1N5652	Z0433
1N4896	Z0416	1N5014	Z2506	1N5232	Z0212	1N5375B	Z2542	1N5524	Z0212	1N5652A	Z0433
1N4896A	Z0416	1N5014A	Z2506	1N5232A	Z0212	1N5378	Z2545	1N5524A	Z0212	1N5655	Z0436
1N4897	Z0416	1N5015	Z2508	1N5232B	Z0212	1N5378A	Z2545	1N5524B	Z0212	1N5655A	Z0436
1N4897A	Z0416	1N5015A									

HEP Semiconductor Replacement Cross-References

DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
1N5731B	Z0214	1S016	R0050	1S225	Z0412	1S477	Z0234	1S1321	R0162	1S2069	Z0217
1N5732B	Z0215	1S020	R0091	1S226	Z0414	1S480	Z0408	1S1322	R0162	1S2076	R0050
1N5734B	Z0217	1S021	R0092	1S227	Z0415	1S482	Z0412	1S1341	R0050	1S2076A	R0050
1N5735B	Z0219	1S023	R0094	1S228	Z0416	1S483	Z0414	1S1342	R0052	1S2082	Z0217
1N5736B	Z0220	1S025	R0096	1S229	Z0417	1S484	Z0417	1S1343	R0052	1S2082A	Z0217
1N5737B	Z0414	1S027	R0097	1S230	Z0418	1S487	Z0424	1S1344	R0053	1S2091	Z0219
1N5738B	Z0222	1S030	R0050	1S231	Z0419	1S490	Z3505	1S1345	R0053	1S2091A	Z0219
1N5739B	Z0416	1S031	R0052	1S233	Z0420	1S491	Z3507	1S1346	R0054	1S2092	R0052
1N5740B	Z0225	1S032	R0052	1S235	Z0421	1S544	R0137	1S1347	R0055	1S2100	Z0220
1N5742B	Z0228	1S034	R0053	1S236	Z0422	1S545	R0138	1S1348	R0056	1S2100A	Z0220
1N5743B	Z0230	1S036	R0054	1S237	Z0423	1S553	R2502	1S1349	R0056	1S2110	Z0414
1N5744B	Z0231	1S038	R0055	1S239	Z0424	1S554	R2502	1S1351	R0162	1S2110A	Z0414
1N5746B	Z0234	1S054	R0053	1S241	Z0426	1S555	R2503	1S1352	R0162	1S2117	Z0413
1N5748B	Z0426	1S058	R0055	1S243	Z0428	1S556	R2503	1S1353	R0134	1S2117A	Z0413
1N5754B	Z0432	1S100	R0052	1S246	Z0430	1S557	R0055	1S1354	R0134	1S2120	Z0222
1N5755B	Z0433	1S101	R0052	1S249	Z0432	1S558	R0054	1S1355	R0136	1S2120A	Z0222
1N5760	311	1S102	R0053	1S250	Z0433	1S559	R0053	1S1356	R0137	1S2130	Z0416
1NC61684	R0050	1S103	R0053	1S253	Z0436	1S685	R0053	1S1357	R0138	1S2130A	Z0416
1NJ27	R0056	1S104	R0054	1S255	Z0438	1S686	R0054	1S1420H	R0050	1S2139A	R2500
1NJ61224	135	1S105	R0054	1S257	Z0439	1S687	R0054	1S1472	R0054	1S2139B	R2500
1NJ61675	134	1S106	R0055	1S258	Z0440	1S692	Z0407	1S1500	R2500	1S2139C	R2501
1NJ61676	R0052	1S107	R0055	1S261	Z0442	1S693	R0602	1S1501	R2501	1S2147A	R2500
1P541	135	1S108	R0056	1S262	Z3502	1S696	Z0415	1S1502	R2502	1S2147B	R2500
1P542	135	1S109	R0056	1S263	Z3504	1S697	Z0418	1S1503	R2503	1S2147C	R2500
1R9	R0052	1S111	R0052	1S264	Z3505	1S700	Z0424	1S1514	R0052	1S2147D	R2500
1R9J	R0054	1S112	R0053	1S265	Z3507	1S750	Z0700	1S1515	R0052	1S2150	Z0225
1R9L	R0055	1S113	R0053	1S267	Z3511	1S750ORN	R0700	1S1516	R0052	1S2150A	Z0225
1R9U	R0054	1S114	R0053	1S269	Z3514	1S751	Z0102	1S1553	R0052	1S2180	Z0228
1R9.1	Z0412	1S115	R0054	1S272	Z3516	1S753	Z0206	1S1554	R0050	1S2180A	Z0228
1R9.1A	Z0412	1S116	R0054	1S275	Z3518	1S754	Z0208	1S1555	R0050	1S2186	R0050
1R9.1B	Z0412	1S117	R0055	1S278	Z3520	1S755	Z0405	1S1575	R0134	1S2190	Z0219
1R11	Z0414	1S119	R0050	1S281	Z3522	1S756	Z0212	1S1576	R0136	1S2191	Z0217
1R11A	Z0414	1S120	R0050	1S283	Z3524	1S757	Z0215	1S1577	R0137	1S2192	Z0217
1R11B	Z0414	1S121	R0052	1S291	Z3530	1S758	Z0219	1S1578	R0138	1S2198	R0700
1R12	Z0415	1S122	R0052	1S295	Z3534	1S759	Z0220	1S1579	R9001	1S2200	Z0230
1R12A	Z0415	1S123	R0053	1S297	Z3536	1S760	Z0416	1S1580	R0050	1S2200A	Z0230
1R12B	Z0415	1S124	R0053	1S307	134	1S761	Z0225	1S1588	R0600	1S2220	Z0231
1R13	Z0416	1S125	R0054	1S310	R0053	1S762	Z0228	1S1589	134	1S2220A	Z0231
1R13A	Z0416	1S126	R0054	1S311	R0052	1S844	R0053	1S1621	R0052	1S2270	Z0234
1R13B	Z0416	1S127	134	1S312	R0052	1S846	R0054	1S1622	R0052	1S2270A	Z0234
1R15	Z0418	1S130	R0050	1S313	R0053	1S848	R0055	1S1623	R0052	1S2306	R0054
1R15A	Z0418	1S131	R0052	1S314	R0053	1S850	R0056	1S1624	R0053	1S2307	R0055
1R15B	Z0418	1S132	R0052	1S315	R0054	1S892	R2502	1S1625	R0054	1S2308	R0056
1R27	Z0424	1S134	R0053	1S330	Z0211	1S893	R2503	1S1626	R0137	1S2310	R0054
1R27A	Z0424	1S135	Z0414	1S331	Z0408	1S920	R0050	1S1627	R0138	1S2311	R0055
1R27B	Z0424	1S136	R0054	1S332	Z0215	1S921	R0092	1S1629	R0137	1S2312	R0056
1R33	Z0426	1S137	Z0225	1S333	Z0217	1S922	R0094	1S1630	R0138	1S2313	R0054
1R33A	Z0426	1S138	R0055	1S334	Z0412	1S923	R0096	1S1650	R0050	1S2314	R0055
1R33B	Z0426	1S146	R0052	1S335	Z0220	1S924	R0097	1S1651	R0050	1S2315	R0056
1R56	Z0432	1S147	R0052	1S336	Z0415	1S925	R0098	1S1652	R0132	1S2330	Z0426
1R56A	Z0432	1S148	R0053	1S337	Z0222	1S926	R0132	1S1653	R0134	1S2330A	Z0426
1R56B	Z0432	1S149	R0053	1S338	Z0225	1S927	R0134	1S1654	R0253	1S2349	R0092
1R62	Z0433	1S150	R0054	1S339	Z0228	1S928	R0136	1S1655	R0254	1S2350	R0094
1R62A	Z0433	1S151	R0162	1S351	R2502	1S929	R0137	1S1658	R0050	1S2351	R0052
1R62B	Z0433	1S152	R0162	1S351M	R2502	1S930	R0138	1S1660	R0132	1S2352	R0054
1R81	R0050	1S153	R0134	1S351S	R2502	1S931	R0253	1S1661	R0134	1S2353	R0055
1R82	Z0436	1S154	R0134	1S352	R2502	1S932	R0255	1S1662	R0132	1S2354	R0056
1R82A	Z0436	1S155	R0136	1S352M	R2502	1S933	R0257	1S1663	R0134	1S2356	R0052
1R82B	Z0436	1S156	R0136	1S353	R2503	1S940	R0050	1S1665	R0054	1S2357	R0053
1R110	Z0439	1S160	R0130	1S357	134	1S941	R0050	1S1701	134	1S2361	R0052
1R110A	Z0439	1S161	R0162	1S358	R0052	1S942	R0052	1S1715	Z0215	1S2362	R0053
1R110B	Z0439	1S162	R0162	1S358S	R0050	1S951	R0050	1S1717	Z0412	1S2363	R0054
1RC20	R1221	1S163	R0134	1S395	R0053	1S952	R0050	1S1718	Z0412	1S2364	R0055
1RE10	R0052	1S164	R0134	1S396	R0054	1S953	R0050	1S1765	R2504	1S2365	R0056
1ROE	R0054	1S165	R0136	1S397	R0055	1S954	R0052	1S1841	R0255	1S2371	R0052
1ROF	R0054	1S166	R0136	1S398	R0056	1S955	R0052	1S1842	R0257	1S2372	R0052
1ROH	R0052	1S170	R0250	1S399	R0053	1S963	R0602	1S1850	two R0052	1S2373	R0053
1S12	134	1S171	R0251	1S400	R0054	1S990	134	1S1850R	R9002	1S2374	R0054
1S13	135	1S172	R0253	1S401	R0055	1S990-AM	135	1S1885	R0052	1S2375	R0052
1S15	135	1S173	R0254	1S402	R0056	1S990S	134	1S1886	R0052	1S2376	R0053
1S20	135	1S174	R0255	1S410	R0131	1S993	Z0206	1S1887	R0053	1S2377	R0091
1S32	134	1S175	R0256	1S411	R0132	1S994	Z0208	1S1888	R0054	1S2378	R0092
1S33	134	1S176	R0257	1S413	R0134	1S995	R2502	1S1890	R0054	1S2379	R0094
1S34	134	1S180	R0050	1S415	R0136	1S1001	R0050	1S1891	R0055	1S2380	R0096
1S34A	134	1S181	R0052	1S417	R0137	1S1007	R0050	1S1892	R0056	1S2401	R0052
1S35	135	1S182	R0052	1S419	R0138	1S1009	134	1S1894A	R2503	1S2402	R0052
1S40	R0052	1S183	R0053	1S420	R0131	1S1010	134	1S1894B	R2503	1S2403	R0053
1S41	R0052	1S186	134	1S421	R0132	1S1061	R0052	1S1894C	R2503	1S2404	R0054
1S42	R0053	1S188	134	1S423	R0134	1S1062	R0052	1S1894D	R2503	1S2405	R0055
1S43	R0053	1S188AM	134	1S425	R0136	1S1063	R0053	1S1895A	R2503	1S2406	R0056
1S44	R0054	1S188FM	135	1S426	135	1S1064	R0054	1S1895B	R2503	1S2408	R0090
1S45	R0054	1S188S	134	1S426G	135	1S1065	R0055	1S1895C	R2503	1S2409	R0091
1S46	R0055	1S189	134	1S427	R0137	1S1066	R0056	1S1895D	R2503	1S2410	R0092
1S47	R0055	1S190	Z0211	1S430	R0090	1S1071	R0091	1S1922	R2500	1S2411	R0094
1S50	134	1S191	Z0214	1S431	R0091	1S1072	R0092	1S1923	R2501	1S2412	R0094
1S58	134	1S192	Z0215	1S432	R0092	1S1073	R0094	1S1924	R2500	1S2413	R0096
1S72	R0052	1S193	Z0217	1S434	R0094	1S1074	R0096	1S1925	R0700	1S2414	R0096
1S73	135	1S194	Z0219	1S436	R0096	1S1075	R0097	1S1941	R0052	1S2415	R0090
1S75	135	1S195	Z0220	1S438	R0097	1S1076	R0098	1S1942	R0052	1S2416	R0091
1S76	134	1S196	Z0414	1S441	134	1S1209	R0051	1S1943	R0053	1S2417	R0092
1S77	134	1S197	Z0222	1S442	R0130	1S1211	R0054	1S1944	R0054	1S2418	R0094
1S78	135	1S198	Z0417	1S443	R0130	1S1212	R0602	1S2030A	Z0206	1S2419	R0094
1S79	135	1S199	Z0228	1S444	R0131	1S1213	R0050	1S2033	Z0206	1S2420	R0096
1S80	135	1S204	R0053	1S445	R0131	1S1214	R0050	1S2033A	Z0206	1S2421	R0096
1S82	135	1S205	R0053	1S446	R0132	1S1215	R0050	1S2036	Z0402	1S2422	R0220
1S83	R0052	1S206	R0054	1S451	134	1S1216	R0050	1S2036A	Z0402	1S2423	R0222
1S84	R0052	1S207	R0054	1S454	135	1S1221	R0052	1S2039	Z0208	1S2424	R0222
1S85	R2502	1S208	R0053	1S455	135	1S1222	R0054	1S2039A	Z0208	1S2434	R0160
1S85WT	R2502	1S209	R0054	1S456	R0050	1S1223	R0056	1S2047	Z0210	1S2435	R0161
1S88G	135	1S211	R0056	1S457	R0052	1S1224	R0054	1S2047A	Z0210	1S2436	R0162
1S90	R0052	1S212	Z0217	1S458	R0052	1S1225	R0055</				

HEP Semiconductor Replacement Cross-References

DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
1S2450	R0255	1S7062	Z0214	1TA13A	Z0416	1Z62D	Z0433	1.5DKZ12B	Z2516	1.5R18B	Z2522
1S2451	R0256	1S7062A	Z0214	1TA13B	Z0416	1Z62D5	Z0433	1.5DKZ13	Z2516	1.5R22	Z2525
1S3007	Z0410	1S7062B	Z0214	1TA14	Z0417	1Z62D10	Z0433	1.5DKZ13A	Z2516	1.5R22A	Z2525
1S3009	Z0412	1S7068	Z0215	1TA14A	Z0417	1Z82	Z0436	1.5DKZ13B	Z2516	1.5R22B	Z2525
1S3011	Z0414	1S7068A	Z0215	1TA14B	Z0417	1Z82A	Z0436	1.5DKZ16	Z2519	1.5R27	Z2528
1S3012	Z0415	1S7068B	Z0215	1TA15	Z0418	1Z82B	Z0436	1.5DKZ21A	Z2519	1.5R27A	Z2528
1S3013	Z0416	1S7082	Z0217	1TA15A	Z0418	1Z82C	Z0436	1.5DKZ21B	Z2519	1.5R27B	Z2528
1S3015	Z0418	1S7082A	Z0217	1TA15B	Z0418	1Z82D	Z0436	1.5DKZ22	Z2525	1.5R33	Z2531
1S3027	Z0418	1S7082B	Z0217	1V68611A47	Z0418	1Z82D5	Z0436	1.5DKZ22A	Z2525	1.5R33A	Z2531
1S3033	Z0426	1S7091	Z0219	1VA10	R0052	1Z82D10	Z0436	1.5DKZ22B	Z2525	1.5R33B	Z2531
1S3039	Z0428	1S7091A	Z0219	1WS1	R0091	1Z110	Z0439	1.5DKZ27	Z2528	1.5R56	Z2537
1S3056	Z0432	1S7091B	Z0219	1WS2	R0092	1Z110A	Z0439	1.5DKZ27A	Z2528	1.5R56A	Z2537
1S3082	Z0436	1S7100	Z0220	1WS4	R0094	1Z110B	Z0439	1.5DKZ27B	Z2528	1.5R56B	Z2537
1S3100	Z0438	1S7100A	Z0220	1WS6	R0096	1Z110C	Z0439	1.5DKZ27C	Z2528	1.5R56C	Z2537
1S3110	Z0439	1S7100B	Z0220	1WS8	R0097	1Z110D	Z0439	1.5DKZ33	Z2531	1.5R82	Z2542
1S3120	Z0440	1S7110	Z0220	1WS10	R0098	1Z110E	Z0439	1.5DKZ33A	Z2531	1.5R82A	Z2542
1S3150	Z0442	1S7110A	Z0220	1Z3.6	Z0402	1Z110D10	Z0439	1.5DKZ33B	Z2531	1.5R82B	Z2542
1S4007	Z2510	1S7110B	Z0414	1Z3.6A	Z0402	1ZB12	Z0415	1.5DKZ33C	Z2531	1.5R82C	Z2542
1S4007A	Z2510	1S7120	Z0222	1Z3.6B	Z0402	1ZB12B	Z0415	1.5DKZ56A	Z2537	1.5R100A	Z2545
1S4009	Z2513	1S7120A	Z0222	1Z3.6T5	Z0402	1ZB15	Z0418	1.5DKZ56B	Z2537	1.5R100B	Z2545
1S4009A	Z2513	1S7120B	Z0222	1Z3.6T10	Z0402	1ZB15B	Z0418	1.5E1	R0091	1.5Z9.1	Z2513
1S4010	Z2514	1S7130	Z0416	1Z4.7	Z0405	1ZB27	Z0424	1.5E2	R0092	1.5Z9.1A	Z2513
1S4010A	Z2514	1S7130A	Z0416	1Z4.7A	Z0405	1ZB27B	Z0424	1.5E3	R0094	1.5Z9.1B	Z2513
1S4012	Z2516	1S7130B	Z0416	1Z4.7B	Z0405	1ZB33	Z0426	1.5E4	R0094	1.5Z9.1C	Z2513
1S4012A	Z2516	1S7150	Z0225	1Z4.7T5	Z0405	1ZB33B	Z0426	1.5E5	R0096	1.5Z9.1D	Z2513
1S4015	Z2519	1S7150A	Z0225	1Z4.7T10	Z0405	1ZB82	Z0436	1.5E6	R0096	1.5Z10	Z2514
1S4015A	Z2519	1S7150B	Z0225	1Z4.7T20	Z0405	1ZBB2B	Z0436	1.5E7	R0097	1.5Z10A	Z2514
1S401B	Z2522	1SA29-3	53	1Z5.6	Z0407	1ZC3.6	Z0402	1.5E8	R0097	1.5Z10B	Z2514
1S401BA	Z2522	1SD2	R0054	1Z5.6A	Z0407	1ZC4.7	Z0405	1.5E9	R0090	1.5Z10C	Z2514
1S4022	Z2525	1T9.1	Z0412	1Z5.6B	Z0407	1ZC5.6	Z0407	1.5E10	R0098	1.5Z10D	Z2514
1S4022A	Z2525	1T9.1A	Z0412	1Z5.6T5	Z0407	1ZC6.2	Z0408	1.5JR120	Z2547	1.5Z12	Z2516
1S4027	Z2528	1T9.1B	Z0412	1Z5.6T10	Z0407	1ZC9.1	Z0412	1.5JR120A	Z2547	1.5Z12A	Z2516
1S4027A	Z2528	1T11	Z0414	1Z5.6T20	Z0407	1ZC12	Z0415	1.5JR120B	Z2547	1.5Z12B	Z2516
1S4033	Z2531	1T11A	Z0414	1Z6.2	Z0408	1ZC15	Z0418	1.5J27.5	Z2510	1.5Z12C	Z2516
1S4033A	Z2531	1T11B	Z0414	1Z6.2A	Z0408	1ZC27	Z0424	1.5J27.5A	Z2510	1.5Z12D	Z2516
1S4056	Z2537	1T12	Z0415	1Z6.2B	Z0408	1ZDB.2	Z0411	1.5J27.5B	Z2510	1.5Z15	Z2519
1S4056A	Z2537	1T12A	Z0415	1Z6.2T5	Z0408	1ZF4.7T5	Z0405	1.5J27.5C	Z2510	1.5Z15A	Z2519
1S4082	Z2542	1T12B	Z0415	1Z6.2T10	Z0408	1ZF4.7T10	Z0405	1.5J29.1	Z2513	1.5Z15B	Z2519
1S4082A	Z2542	1T13	Z0416	1Z6.2T20	Z0408	1ZF4.7T20	Z0405	1.5J29.1A	Z2513	1.5Z15C	Z2519
1S4100	Z2545	1T13A	Z0416	1Z9.1	Z0412	1ZF5.6T5	Z0407	1.5J29.1B	Z2513	1.5Z15D	Z2519
1S4100A	Z2545	1T13B	Z0416	1Z9.1A	Z0412	1ZF5.6T10	Z0407	1.5J29.1C	Z2513	1.5Z18	Z2522
1S4120	Z2547	1T14	Z0417	1Z9.1B	Z0412	1ZF5.6T20	Z0407	1.5J29.1D	Z2513	1.5Z18A	Z2522
1S4120A	Z2547	1T14A	Z0417	1Z9.1C	Z0412	1ZF9.1T5	Z0412	1.5J210	Z2514	1.5Z18B	Z2522
1S5015	Z3516	1T14B	Z0417	1Z9.1D5	Z0412	1ZF9.1T10	Z0412	1.5J210A	Z2514	1.5Z18C	Z2522
1S5015A	Z3516	1T15	Z0418	1Z9.1D10	Z0412	1ZF9.1T20	Z0412	1.5J210B	Z2514	1.5Z18D	Z2522
1S5015C	Z3516	1T15A	Z0418	1Z9.1T5	Z0412	1ZF12T5	Z0415	1.5J210C	Z2514	1.5Z22	Z2525
1S501B	Z3518	1T15B	Z0418	1Z9.1T10	Z0412	1ZF12T10	Z0415	1.5J210D	Z2514	1.5Z22A	Z2525
1S501BA	Z3518	1T22	134	1Z9.1T20	Z0412	1ZF12T20	Z0415	1.5J212	Z2516	1.5Z22B	Z2525
1S501BC	Z3518	1T22A	134	1Z11	Z0414	1ZF15T5	Z0418	1.5J212A	Z2516	1.5Z22C	Z2525
1S5022	Z3520	1T22G	134	1Z11A	Z0414	1ZF15T10	Z0418	1.5J212B	Z2516	1.5Z22D	Z2525
1S5022A	Z3520	1T23	135	1Z11B	Z0414	1ZF15T20	Z0418	1.5J212C	Z2516	1.5Z22E	Z2528
1S5022C	Z3520	1T23A	135	1Z11C	Z0414	1ZF27T5	Z0424	1.5J212D	Z2516	1.5Z22F	Z2528
1S5027	Z3522	1T23G	135	1Z11T5	Z0414	1ZF27T10	Z0424	1.5J212E	Z2516	1.5Z22G	Z2528
1S5027A	Z3522	1T23S	135	1Z11T10	Z0414	1ZF27T20	Z0424	1.5J212F	Z2516	1.5Z22H	Z2528
1S5027C	Z3522	1T26	135	1Z11T20	Z0414	1ZF33T5	Z0426	1.5J212G	Z2516	1.5Z22I	Z2528
1S5033	Z3524	1T27	Z0424	1Z12	Z0415	1ZF33T10	Z0426	1.5J212H	Z2516	1.5Z22J	Z2528
1S5033A	Z3524	1T27A	Z0424	1Z12A	Z0415	1ZF33T20	Z0426	1.5J212I	Z2516	1.5Z22K	Z2528
1S5033C	Z3524	1T27B	Z0424	1Z12B	Z0415	1ZM3.6T5	Z0402	1.5J212J	Z2516	1.5Z22L	Z2528
1S5056	Z3530	1T33	Z0426	1Z12C	Z0415	1ZM3.6T10	Z0402	1.5J212K	Z2516	1.5Z22M	Z2528
1S5056A	Z3530	1T33A	Z0426	1Z12T5	Z0415	1ZM3.6T20	Z0402	1.5J212L	Z2516	1.5Z22N	Z2528
1S5056C	Z3530	1T33B	Z0426	1Z12T10	Z0415	1ZM4.7T5	Z0405	1.5J212M	Z2516	1.5Z22O	Z2528
1S5082	Z3534	1T40	R0602	1Z12T20	Z0415	1ZM4.7T10	Z0405	1.5J212N	Z2516	1.5Z22P	Z2528
1S5082A	Z3534	1T56	Z0432	1Z13	Z0416	1ZM4.7T20	Z0405	1.5J212O	Z2516	1.5Z22Q	Z2528
1S5082C	Z3534	1T56A	Z0432	1Z13A	Z0416	1ZM5.6T5	Z0407	1.5J212P	Z2516	1.5Z22R	Z2528
1S5100	Z3536	1T56B	Z0432	1Z13B	Z0416	1ZM5.6T10	Z0407	1.5J212Q	Z2516	1.5Z22S	Z2528
1S5100A	Z3536	1T62	Z0433	1Z13C	Z0416	1ZM5.6T20	Z0407	1.5J212R	Z2516	1.5Z22T	Z2528
1S5100C	Z3536	1T62A	Z0433	1Z13T5	Z0416	1ZM6.2T5	Z0408	1.5J212S	Z2516	1.5Z22U	Z2528
1S6007	Z3507	1T62B	Z0433	1Z13T10	Z0416	1ZM6.2T10	Z0408	1.5J212T	Z2516	1.5Z22V	Z2528
1S6007A	Z3507	1T82	Z0436	1Z13T20	Z0416	1ZM6.2T20	Z0408	1.5J212U	Z2516	1.5Z22W	Z2528
1S6009	Z3511	1T82A	Z0436	1Z14	Z0417	1ZM8.2T5	Z0411	1.5J212V	Z2516	1.5Z22X	Z2528
1S6009A	Z3511	1T82B	Z0436	1Z14A	Z0417	1ZM8.2T10	Z0411	1.5J212W	Z2516	1.5Z100A	Z2545
1S6010	Z3512	1T110	Z0439	1Z14B	Z0417	1ZM8.2T20	Z0411	1.5J212X	Z2516	1.5Z100B	Z2545
1S6010A	Z3512	1T110A	Z0439	1Z14C	Z0417	1ZM9.1T5	Z0412	1.5J212Y	Z2516	1.5Z100C	Z2545
1S6012	Z3514	1T110B	Z0439	1Z15	Z0418	1ZM9.1T10	Z0412	1.5J212Z	Z2516	1.5Z100D	Z2545
1S6012A	Z3514	1T213	134	1Z15A	Z0418	1ZM9.1T20	Z0412	1.5Z100E	Z2516	1.5Z100E	Z2545
1S6015	Z3516	1T240	135	1Z15B	Z0418	1ZM11T5	Z0414	1.5Z100F	Z2516	1.5Z100F	Z2545
1S6015A	Z3516	1T261	135	1Z15C	Z0418	1ZM11T10	Z0414	1.5Z100G	Z2516	1.5Z100G	Z2545
1S6018	Z3518	1T262	135	1Z15D	Z0418	1ZM11T20	Z0414	1.5Z100H	Z2516	1.5Z100H	Z2545
1S6018A	Z3518	1T263	135	1Z15D5	Z0418	1ZM12T5	Z0415	1.5Z100I	Z2516	1.5Z100I	Z2545
1S6022	Z3520	1T264	135	1Z15D10	Z0418	1ZM12T10	Z0415	1.5Z100J	Z2516	1.5Z100J	Z2545
1S6022A	Z3520	1T501	R0052	1Z15T5	Z0418	1ZM12T20	Z0415	1.5Z100K	Z2516	1.5Z100K	Z2545
1S6027	Z3522	1T502	R0052	1Z15T10	Z0418	1ZM13T5	Z0418	1.5Z100L	Z2516	1.5Z100L	Z2545
1S6027A	Z3522	1T503	R0053	1Z15T20	Z0418	1ZM13T10	Z0418	1.5Z100M	Z2516	1.5Z100M	Z2545
1S6033	Z3524	1T504	R0053	1Z27	Z0424	1ZM13T20	Z0418	1.5Z100N	Z2516	1.5Z100N	Z2545
1S6033A	Z3524	1T505	R0054	1Z27A	Z0424	1ZM15T5	Z0424	1.5Z100O	Z2516	1.5Z100O	Z2545
1S6056	Z3530	1T506	R0054	1Z27B	Z0424	1ZM15T10	Z0424	1.5Z100P	Z2516	1.5Z100P	Z2545
1S6056A	Z3530	1T507	R0055	1Z27C	Z0424	1ZM15T20	Z0424	1.5Z100Q	Z2516	1.5Z100Q	Z2545
1S6082	Z3534	1T508	R0055	1Z27D	Z0424	1ZT12	Z0415	1.5Z100R	Z2516	1.5Z100R	Z2545
1S6082A	Z3534	1T509	R0056	1Z27D5	Z0424	1ZT12B	Z0415	1.5Z100S	Z2516	1.5Z100S	Z2545
1S6100	Z3536	1T510	R0056	1Z27D10	Z0424	1ZT15	Z0418	1.5Z100T	Z2516	1.5Z100T	Z2545
1S6100A	Z3536	1T2011	R0052	1Z27T5	Z0424	1ZT15B	Z0418	1.5Z100U	Z2516	1.5Z100U	Z2545
1S7030A	Z0206	1T2012	R0052	1Z27T10	Z0424	1ZT27	Z0424	1.5Z100V	Z2516	1.5Z100V	Z2545
1S7033	Z0206	1T2013	R0053	1Z27T20	Z0424	1ZT27B	Z0424	1.5Z100W	Z2516	1.5Z100W	Z2545
1S7033A	Z0206	1T2014	R0053	1Z33	Z0426	1ZT33	Z0426	1.5Z100X	Z2516	1.5Z100X	Z2545
1S7033B	Z0206	1T2015	R0054	1Z33A	Z0426	1ZT33B	Z0426	1.5Z100Y	Z2516	1.5Z100Y	Z2545
1S7036	Z0402										

HEP Semiconductor Replacement Cross-References

DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
2AF2R	R0222R	2H1256	52	2N118	53	2N196	253	2N283	254	2N379	230/232
2AF05	R0220	2H1257	52	2N118A	53	2N197	253	2N284	253	2N380	230/232
2AF05LH	R0220	2H1258	52	2N119	53	2N198	253	2N284A	253	2N381	254
2AF05LHR	R0220R	2H1259	52	2N120	53	2N199	253	2N285	232	2N382	254
2AF05LV	R0220	2H4078	642	2N123	2	2N200	253	2N285A	230/232	2N383	254
2AF05LVR	R0220R	2J72	2	2N123/5	2	2N204	641	2N285B	230/232	2N384	639
2AF05PLH	R0220	2J73	2	2N123A	2	2N205	641	2N286	636	2N384/33	3
2AF05PLHR	R0220R	2K2	R0092	2N124	641	2N206	254	2N290	233	2N385	641
2AF05PLV	R0220	2K48	3	2N125	641	2N207	632	2N291	629	2N385A	641
2AF05PLVR	R0220R	2N27	253	2N126	641	2N207A	253	2N292	641	2N386	232
2AF05R	R0220R	2N28	641	2N127	641	2N207B	253	2N292A	641	2N387	232
2B	635	2N29	641	2N128	3	2N207BLLU	632	2N293	641	2N388	641
2C	635	2N32	253	2N129	3	2N211	641	2N296	230/232	2N388A	641
2C05	R0090	2N33	2	2N130	631	2N212	641	2N297	232	2N392	232
2D	635	2N34	254	2N130A	631	2N213	641	2N297A	232	2N393	3
2E	635	2N34/5	254	2N131	631	2N213A	641	2N299	3	2N394	254
2E1	R0091	2N34A	254	2N131A	631	2N214	641	2N300	3	2N394A	254
2E2	R0092	2N35	641	2N132	631	2N214A	641	2N301	230/232	2N395	254
2E4	R0094	2N35/5	641	2N132A	631	2N215	254	2N301A	232	2N396	254
2E6	R0096	2N36	253	2N133	631	2N216	641	2N302	254	2N396A	254
2E8	R0097	2N37	253	2N133A	631	2N217	636	2N303	254	2N397	2
2E05	R0090	2N38	253	2N135	631	2N217RED	636	2N306	641	2N398B	239
2E10	R0098	2N38A	253	2N136	631	2N217WHT	636	2N307	230	2N399	230/232
2EM1	R0091	2N39	254	2N137	631	2N217YEL	636	2N307A	230	2N400	230/232
2EM2	R0092	2N40	254	2N138	631	2N218	3	2N307B	230	2N401	230/232
2EM3	R0094	2N41	254	2N138A	631	2N219	254	2N308	638	2N402	253
2EM4	R0094	2N42	254	2N138B	631	2N220	254	2N309	638	2N403	253
2EM5	R0096	2N43	254	2N139	3	2N222	253	2N310	638	2N404	739
2EM6	R0096	2N43A	254	2N140	635	2N223	254	2N311	2	2N404A	739
2EM8	R0097	2N44	253	2N140(M1)	635	2N224	254	2N312	641	2N405	250
2EM03	R0090	2N44A	253	2N140(M2)	635	2N225	254	2N313	641	2N406	250
2EM05	R0090	2N45	253	2N145	641	2N226	254	2N314	641	2N406BLU	250
2EM10	R0098	2N45A	253	2N146	641	2N227	254	2N315	253	2N406BRN	250
2EM015	R0090	2N46	254	2N147	641	2N228	641	2N315A	253	2N406GRN	250
2F	2	2N47	254	2N148	641	2N229	641	2N315B	254	2N406GRY	250
2F4	R0053	2N48	253	2N148A	641	2N230	232	2N316	2	2N406ORN	250
2G	3	2N48A	253	2N149	641	2N231	636	2N316A	253	2N406RED	250
2G8	R0052	2N49	254	2N149A	641	2N231BLU	636	2N317	2	2N407	250
2G101	2	2N50	254	2N150	641	2N231YEL	636	2N317A	2	2N407BLK	250
2G102	2	2N51	254	2N150A	641	2N231YEL-RED	636	2N319	631	2N407GRN	250
2G103	3	2N52	253	2N151	254	2N232	3	2N320	250	2N407RED	250
2G104	3	2N54	254	2N155	230	2N233	641	2N321	254	2N407WHT	250
2G106	3	2N55	253	2N156	230	2N233A	641	2N322	254	2N407YEL	250
2G108	2	2N56	253	2N157	230/232	2N234	230	2N323	254	2N408	250
2G109	2	2N59	254	2N157A	232/230	2N234A	230	2N324	254	2N408WHT	250
2G110	2	2N59A	254	2N160	53	2N235	230/232	2N325	230	2N409	3
2G201	2	2N59B	254	2N160A	53	2N235A	230/232	2N327A	739	2N410	3
2G202	2	2N59C	254	2N161	53	2N235B	230/232	2N327B	739	2N411	3
2G210	232	2N60	254	2N161A	53	2N236	232	2N329	739	2N412	3
2G220	230	2N60A	254	2N162	53	2N236A	230/232	2N329A	739	2N413	253
2G221	232	2N60B	254	2N162A	53	2N236B	230/232	2N329B	739	2N413A	253
2G222	232	2N60C	254	2N163	53	2N237	254	2N331	254	2N414	635
2G223	230	2N61	254	2N163A	53	2N238	631	2N332	53	2N414A	254
2G224	232	2N61A	254	2N164	641	2N238(D)	632	2N332A	53	2N414B	2
2G225	232	2N61B	254	2N164A	641	2N238(E)	632	2N333	53	2N414C	2
2G226	626	2N61C	254	2N165	641	2N238(F)	632	2N333A	53	2N415	2
2G227	626	2N62	254	2N166	641	2N238ORN	631	2N334	53	2N415A	2
2G228	626	2N63	253	2N167	641	2N240	3	2N334A	53	2N416	2
2G240	232	2N64	254	2N167A	641	2N241	632	2N335	53	2N417	2
2G301	3	2N65	254	2N168	641	2N241A	254	2N335A	53	2N418	232
2G302	3	2N75	250	2N168A	641	2N242	230/232	2N335B	53	2N419	230/232
2G303	3	2N76	253	2N169	641	2N243	713	2N336	53	2N420	232
2G304	3	2N77	254	2N169A	641	2N244	713	2N336A	53	2N420A	232
2G306	3	2N78	641	2N170	641	2N247	638	2N337	53	2N422	254
2G308	3	2N78A	641	2N172	641	2N247/33	3	2N337A	53	2N422A	253
2G309	3	2N79	254	2N173	233	2N248	3	2N338	53	2N425	253
2G319	253	2N80	254	2N174	233	2N249	253	2N338A	53	2N426	253
2G320	254	2N81	253	2N174A	233	2N250	230/232	2N341	713	2N427	2
2G321	254	2N82	254	2N175	254	2N250A	230/232	2N344	3	2N428	2
2G322	253	2N83	232	2N176	623	2N251	232	2N345	3	2N428A	2
2G323	254	2N85	2	2N176-1	234	2N251A	232	2N346	3	2N431	50
2G324	254	2N86	2	2N176-1BLU	624	2N252	639	2N350	230/232	2N432	50
2G339A	641	2N87	2	2N176-1WHT	628	2N253	641	2N350A	230/232	2N433	50
2G344	3	2N88	2	2N176-1YEL	623	2N254	641	2N351	230/232	2N435	641
2G345	3	2N89	2	2N176-3PUR	624	2N255	230	2N351A	230/232	2N438	641
2G371	3	2N90	2	2N176-3PUR	624	2N255A	230	2N352	232	2N439	641
2G374	3	2N94	641	2N176-5WHT	624	2N256	230	2N352	232	2N440	641
2G376	3	2N94A	641	2N176-6WHT	623	2N256A	230	2N356	641	2N441	231
2G377	3	2N96	253	2N176A	232	2N257	230/232	2N356A	641	2N441BLU	231
2G381	3	2N97	641	2N176BLK	623	2N257A	230/232	2N357	641	2N442	233
2G382	3	2N97A	641	2N176BLU	624	2N257B	230/232	2N357A	641	2N443	233
2G383	253	2N98	641	2N176G	234	2N257G	230/232	2N358	641	2N444	641
2G384	254	2N98A	641	2N176GRN	628	2N257W	230/232	2N358A	641	2N444A	641
2G385	254	2N99	641	2N176PUR	624	2N262	253	2N359	254	2N445	641
2G386	254	2N100	641	2N176RED	623	2N263	53	2N360	254	2N445A	641
2G387	254	2N103	641	2N176W	234	2N264	53	2N361	254	2N446	641
2G395	253	2N104	253	2N176WHT	624	2N265	632	2N362	250	2N446A	641
2G396	253	2N105	253	2N178	230/232	2N266	253	2N362(B)	633	2N447	641
2G397	253	2N106	253	2N179	230	2N267	2	2N363	254	2N447A	641
2G401	2	2N107	250	2N180	254	2N268	232	2N364	641	2N447B	641
2G402	2	2N108	254	2N181	254	2N268A	232	2N365	641	2N448	641
2G403	2	2N109	632	2N182	641	2N269	3	2N366	641	2N449	641
2G413	3	2N109/5	254	2N183	641	2N270	632	2N367	253	2N450	2
2G414	3	2N109BLU	631	2N184	641	2N270(5M)	632	2N368	253	2N456	230/232
2G415	3	2N109GRN	631	2N185	632	2N270A	254	2N369	254	2N456A	230/232
2G416	3	2N109(M1)	631	2N185BLU	632	2N271	253	2N370	3	2N456B	230/232
2G417	3	2N109(M2)	631	2N186	631	2N271A	254	2N370/33	3	2N457	232
2G508	254	2N109WHT	631	2N186A	253	2N272	254	2N370A	3	2N457A	232
2G524	253	2N109YEL	631	2N187	631	2N273	253	2N371	3	2N457B	232
2G525	253	2N111	631	2N187A	253	2N274	637	2N371/33	3	2N458	232
2G526	254	2N111A	631	2N188	632	2N274BLU	637	2N372	3	2N458A	232
2G527	254	2N111B	631	2N188A	254	2N274WHT	637	2N372/33	3	2N458B	232
2G577	254	2N111(M1)	631	2N189	631	2N275	2	2N373	3	2N459	232
2G605	254	2N111(M2)	631	2N190	253	2N276	253	2N374	3	2N460	253
2G1024	253	2N112	638	2N191	632	2N277	231	2N375	232	2N461	253
2G1025	253	2N112A	253	2N192	632	2N278	231/233	2N376	230/232	2N462	254
2G1026	254	2N112(M1)	638	2N193	641	2N279	253	2N376A	230	2N464	253
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DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
2N468	254	2N564	253	2N665	232	2N771	50	2N930A/46	50	2N1041	239
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2N471	53	2N566	254	2N670	238	2N773	50	2N934	3	2N1046A	232
2N471 A	53	2N567	641	2N672	238	2N774	50	2N935	52	2N1046B	232
2N472	53	2N568	254	2N674	237	2N775	50	2N936	52	2N1051	53
2N472 A	53	2N569	254	2N677	232	2N776	50	2N937	52	2N1054	53
2N473	53	2N570	254	2N677A	232	2N777	50	2N938	52	2N1056	253
2N474	53	2N571	254	2N677B	232	2N778	50	2N939	52	2N1057	254
2N474 A	53	2N572	254	2N677C	232	2N779	3	2N940	52	2N1058	641
2N475	53	2N573	633	2N678	230/232	2N779 A	3	2N941	52	2N1059	641
2N475 A	53	2N573BRN	631	2N678 A	232	2N779B	3	2N942	52	2N1065	2
2N476	53	2N573ORN	632	2N678B	232	2N780	50	2N943	52	2N1066	3
2N477	53	2N573RED	632	2N678C	232	2N781	3	2N944	52	2N1069	247
2N478	53	2N574	233	2N679	641	2N782	3	2N945	52	2N1070	247
2N479	53	2N574 A	237	2N680	3	2N783	50	2N946	52	2N1073	230/232
2N479 A	53	2N576	641	2N681	3	2N784	50	2N947	50	2N1073A	232
2N480	53	2N576 A	641	2N681 A	R1471	2N784 A	50	2N948	50	2N1073B	235
2N480 A	53	2N578	253	2N682	R1301	2N784 A/46	50	2N955	641	2N1081	53
2N481	253	2N579	253	2N683	R1471	2N789	50	2N955 A	641	2N1082	53
2N482	250	2N580	253	2N684	R1472	2N789	50	2N956	736	2N1082	53
2N483	250	2N581	253	2N684 A	R1473	2N790	50	2N957	55	2N1086	641
2N483(6M)	632	2N582	2	2N685	R1304	2N791	50	2N960	3	2N1086 A	641
2N483(B)	632	2N583	253	2N686	R1473	2N792	50	2N960/46	3	2N1087	641
2N484	2	2N584	2	2N687	R1475	2N793	50	2N961	3	2N1090	641
2N485	250	2N585	641	2N688	R1475	2N794	3	2N961/46	3	2N1091	641
2N486	635	2N586	254	2N694	R1475	2N795	3	2N962	3	2N1092	243
2N486(B)	635	2N587	641	2N695	3	2N796	3	2N962/46	3	2N1093	2
2N495	52	2N588	639	2N696	3	2N797	641	2N963	3	2N1094	2
2N495/18	52	2N588 A	3	2N697	53	2N799	254	2N964	3	2N1097	254
2N496	52	2N589	232	2N699	713	2N801	254	2N964/46	3	2N1098	254
2N496/18	52	2N591	638	2N700	3	2N803	254	2N964 A	3	2N1099	233
2N497	243	2N591/5	254	2N700/18	3	2N805	254	2N965	3	2N1100	233
2N497 A	243	2N591(6M)	640	2N700 A	3	2N807	254	2N966	3	2N1101	641
2N498	53	2N591 A	254	2N700 A/18	3	2N809	254	2N967	3	2N1102	641
2N499	639	2N597	254	2N701	3	2N811	254	2N968	3	2N1102/5	641
2N499 A	638	2N598	254	2N702	53	2N813	254	2N969	3	2N1103	53
2N500	639	2N599	254	2N703	50	2N815	254	2N970	3	2N1104	53
2N500BLU	639	2N602	2	2N705	3	2N817	253	2N971	3	2N1107	639
2N500RED	639	2N602 A	2	2N705 A	3	2N819	253	2N972	3	2N1108	639
2N500WHT	639	2N603	2	2N706	50	2N821	641	2N973	3	2N1108RED	639
2N501	3	2N603 A	2	2N706/46	50	2N822	641	2N974	3	2N1109	639
2N501/18	3	2N604	2	2N706 A	50	2N823	641	2N975	3	2N1110	639
2N501 A	3	2N604 A	2	2N706 A/46	50	2N824	254	2N976	3	2N1111	639
2N502	638	2N605	2	2N706 A/51	50	2N825	3	2N977	3	2N1111 A	639
2N502 A	638	2N606	2	2N706 B/46	50	2N827	3	2N978	52	2N1111 B	639
2N503	2	2N607	2	2N706 C/46	50	2N828	3	2N979	3	2N1111 RED	639
2N504	3	2N608	2	2N706 C	50	2N828 A	3	2N980	3	2N1114	641
2N505	2	2N609	254	2N706 C/46	50	2N829	3	2N981	52	2N1115	2
2N506	253	2N610	254	2N707	50	2N834	50	2N982	3	2N1115 A	254
2N507	641	2N611	253	2N707 A	50	2N834/46	50	2N983	3	2N1116	53
2N508	254	2N612	253	2N708	50	2N834/51	53	2N984	3	2N1117	53
2N508 A	254	2N613	253	2N708/46	50	2N835	50	2N985	3	2N1118	51
2N515	641	2N614	253	2N708 A	50	2N835/46	50	2N987	3	2N1118 A	51
2N516	641	2N615	253	2N709	50	2N837	3	2N988	50	2N1119	51
2N517	641	2N616	253	2N709/52	56	2N838	3	2N989	50	2N1120	232
2N518	2	2N617	253	2N709 A	50	2N839	3	2N990	636	2N1121	641
2N519	253	2N618	232	2N709 A/46	50	2N840	50	2N991	3	2N1122	3
2N519 A	253	2N624	3	2N710	3	2N841	50	2N992	635	2N1122 A	3
2N520	254	2N627	628	2N710 A	3	2N844	50	2N993	636	2N1124	254
2N520 A	254	2N628	628	2N711	3	2N841/46	50	2N994	3	2N1125	254
2N521	254	2N629	628	2N711 A	3	2N842	50	2N995	52	2N1128	254
2N521 A	2	2N630	625	2N711 B	3	2N843	50	2N995 A	52	2N1129	254
2N522	2	2N631	254	2N715	50	2N844	50	2N996	52	2N1130	254
2N522 A	2	2N632	254	2N717	50	2N846	3	2N1000	641	2N1131	51
2N523	2	2N633	632	2N718	736	2N846 A	3	2N1005	56	2N1131 A	51
2N523 A	2	2N633(B)	632	2N721	52	2N846 B	3	2N1006	53	2N1132	51
2N524	629	2N634	641	2N721 A	52	2N849	56	2N1007	230/232	2N1132/46	52
2N524 A	629	2N634 A	641	2N722	52	2N851	56	2N1008	254	2N1132 A	51
2N525	629	2N635	641	2N722 A	52	2N858	52	2N1008 A	254	2N1132 A/46	52
2N525 A	629	2N635 A	641	2N725	3	2N859	52	2N1008 B	254	2N1132 B	51
2N526	629	2N636	641	2N726	52	2N860	52	2N1009	254	2N1132 B/46	52
2N526 A	629	2N636 A	641	2N727	52	2N861	52	2N1010	641	2N1135	51
2N527	629	2N637	232	2N728	52	2N862	52	2N1011	232	2N1135 A	51
2N527 A	629	2N637 A	232	2N729	50	2N863	52	2N1012	641	2N1136	232
2N529	253	2N637 B	232	2N741	3	2N864	52	2N1014	232	2N1136 A	232
2N530	253	2N638	232	2N741 A	3	2N864 A	52	2N1017	2	2N1136 B	625
2N531	250	2N638 A	232	2N742	3	2N865	52	2N1018	2	2N1137	232
2N532	253	2N639	232	2N742 A	50	2N865 A	52	2N1021	232	2N1137 A	232
2N533	253	2N639 A	232	2N743	50	2N866	50	2N1021 A	232	2N1137 B	625
2N534	3	2N639 B	232	2N743/46	50	2N867	50	2N1022	232	2N1138	232
2N535	254	2N640	638	2N744	50	2N869	50	2N1022 A	232	2N1138 A	232
2N535 A	254	2N641	638	2N744/46	50	2N869 A	52	2N1023	640	2N1138 B	232
2N535 B	254	2N641 RED M/F	640	2N745	50	2N909	50	2N1024	51	2N1139	53
2N536	254	2N642	638	2N746	50	2N913	50	2N1025	51	2N1141	2
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2N539 A	233	2N644	2	2N748	50	2N914/46	56	2N1026 A	51	2N1142 A	2
2N541	53	2N645	2	2N749	50	2N914/51	56	2N1027	51	2N1142 A	2
2N542	53	2N646	641	2N750	50	2N914 A	50	2N1028	51	2N1143 A	2
2N542 A	53	2N647	641	2N751	50	2N916	50	2N1029	230/232	2N1144	2
2N543	53	2N649	641	2N753	50	2N917	56	2N1029 A	232	2N1145	2
2N543 A	53	2N649/5	2	2N753/46	50	2N917	56	2N1029 B	232	2N1146	230/232
2N544	3	2N650	629	2N754	50	2N917 A	56	2N1029 C	232	2N1146 A	232
2N544/33	3	2N650 A	254	2N756	50	2N918	709	2N1030 A	232	2N1146 B	232
2N546	53	2N651	254	2N756 A	50	2N918/46	56	2N1030 B	232	2N1146 C	232
2N547	53	2N651 A	254	2N757	50	2N919	50	2N1031	232	2N1147	230/232
2N548	53	2N652	633	2N757 A	50	2N920	50	2N1030 C	232	2N1147 A	232
2N549	53	2N652 A	254	2N758	50	2N921	50	2N1031 A	232	2N1147 B	232
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2N553	232	2N655 GRN	633	2N759 A	50	2N925	52	2N1032 A	232	2N1151	53
2N554	230	2N655 RED	633	2N759 B	50	2N926	52	2N1032 B	232	2N1152	53
2N555	230	2N656	243	2N760	50	2N927	50	2N1032 C	232	2N1153	53
2N556	641	2N656 A	243	2N760 A	50	2N928	52	2N1033	232	2N1159	232
2N557	641	2N658	253	2N760 B	50	2N929	50	2N1034	51	2N1160	232
2N558	641	2N659	253	2N761	50	2N929/51	50	2N1035	51	2N1162	G6001
2N559	3	2N660	254	2N762	50	2N929 A	50	2N1036	51	2N1162 A	G6001
2N560	53	2N661	254	2N768	635	2N930	728	2N1037	51	2N11	

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DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
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2N1176A	253	2N1302	641	2N1474	51	2N1591	53	2N1842A	R1301	2N2063A	230
2N11768	253	2N1303	629	2N1474A	51	2N1592	53	2N18428	R1301	2N2064	230
2N1177	638	2N1304	641	2N1475	51	2N1593	53	2N1843A	R1301	2N2064A	230
2N1178	638	2N1305	629	2N1478	254	2N1594	53	2N1844A	R1304	2N2065	232
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2N1182	243	2N1308	641	2N1481	243	2N1597	R1103	2N18458	R1304	2N2066A	232
2N1183	238	2N1309	629	2N1482	243	2N1600	R1241	2N1846A	R1304	2N2075	233
2N1183A	238	2N1309A	2	2N1483	243	2N1601	R1243	2N1853	253	2N2075A	233
2N11838	239	2N1313	254	2N1485	243	2N1602	R1243	2N1853/18	253	2N2076	233
2N1184	238	2N1314	230	2N1487	247	2N1605	641	2N1854	253	2N2076A	233
2N1184A	238	2N1316	2	2N1488	247	2N1605A	641	2N1864	2	2N2077	231/233
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2N1187	254	2N1343	253	2N1492	53	2N1613	713	2N1868	2	2N2079	233
2N1188	254	2N1344	254	2N1493	713	2N1614	253	2N1891	641	2N2079A	233
2N1189	254	2N1345	2	2N1495	2	2N1622	641	2N1892	641	2N2080	233
2N1190	254	2N1346	2	2N1499	635	2N1623	51	2N1893	714	2N2080A	233
2N1191	631	2N1347	254	2N1499A	635	2N1624	641	2N1905	232	2N2081	231/233
2N1192	632	2N1348	254	2N14998	635	2N1631	635	2N1906	626	2N2081A	231/233
2N1193	633	2N1349	254	2N1500	2	2N1632	635	2N1907	232	2N2082	231/233
2N1194	634	2N1350	254	2N1500/18	3	2N1633	2	2N1908	232	2N2082A	231/233
2N1195	2	2N1351	254	2N1507	S3020	2N1634	2	2N1917	51	2N2084	3
2N1198	641	2N1352	254	2N1515	3	2N1635	635	2N1918	51	2N2085	641
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2N1200	53	2N1354	254	2N1517	3	2N1637	635	2N1920	51	2N2090	635
2N1201	53	2N1355	254	2N1518	231/233	2N1637/33	635	2N1921	51	2N2091	635
2N1204	253	2N1356	254	2N1519	233	2N1638	636	2N1924	629	2N2092	635
2N1204A	253	2N1357	254	2N1520	231/233	2N1638/33	3	2N1925	254	2N2093	3
2N1205	53	2N1358	233	2N1521	233	2N1639	636	2N1926	254	2N2094	736
2N1213	2	2N1358A	233	2N1522	231/233	2N1639/33	635	2N1929	R1241	2N2094A	736
2N1214	2	2N1358M	233	2N1523	233	2N1643	51	2N1930	R1241	2N2095A	736
2N1215	2	2N1359	232	2N1524	3	2N1644	53	2N1931	R1243	2N2096A	736
2N1216	2	2N1360	232	2N1524/33	2	2N1644A	53	2N1932	R1243	2N2097A	736
2N1217	641	2N1361	250	2N1525	3	2N1646	3	2N1933	R1243	2N2098	2
2N1218	243	2N1361A	2	2N1526	638	2N1651	232	2N1944	53	2N2099	2
2N1219	51	2N1362	232	2N1526/33	3	2N1652	232	2N1945	53	2N2100	2
2N1220	51	2N1363	232	2N1527	3	2N1663	50	2N1946	53	2N2102	714
2N1221	51	2N1364	232	2N1528	53	2N1665	2	2N1947	53	2N2104	51
2N1222	51	2N1365	644	2N1529	230	2N1666	232	2N1948	53	2N2105	51
2N1223	51	2N1366	641	2N1529A	230	2N1667	230	2N1949	53	2N2106	243
2N1224	638	2N1367	641	2N1530	232	2N1668	230	2N1950	53	2N2107	243
2N1225	639	2N1370	253	2N1530A	232	2N1669	230	2N1951	53	2N2108	243
2N1226	639	2N1371	253	2N1531	232	2N1670	2	2N1952	53	2N2137	230
2N1227	230/232	2N1372	253	2N1531A	232	2N1672	641	2N1953	53	2N2137A	230
2N1227.3	232	2N1373	253	2N1532	232	2N1672A	641	2N1954	254	2N2138	230
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2N1227.4R	232	2N1375	253	2N1533	625	2N1674	53	2N1956	254	2N2139	232
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2N1228	51	2N1377	254	2N1534A	230	2N1677	51	2N1958	53	2N2140	232
2N1229	51	2N1378	254	2N1535	232	2N1678	2	2N1958/18	50	2N2140A	232
2N1230	51	2N1379	254	2N1535A	232	2N1681	254	2N1959	53	2N2141	232
2N1231	51	2N1380	253	2N1536	232	2N1682	53	2N1959/18	50	2N2141A	232
2N1232	51	2N1381	253	2N1536A	232	2N1683	254	2N1960	3	2N2142	230
2N1233	51	2N1382	253	2N1537	232	2N1684	253	2N1960/46	2	2N2142A	230
2N1245	230	2N1383	253	2N1537A	232	2N1685	641	2N1961	3	2N2143	230/232
2N1246	230	2N1384	2	2N1538	625	2N1694	641	2N1961/46	2	2N2143A	230/232
2N1247	53	2N1385	2	2N1539	230	2N1700	243	2N1962	50	2N2144	232
2N1248	53	2N1386	53	2N1539A	230	2N1702	247	2N1962/46	53	2N2144A	232
2N1249	53	2N1387	53	2N1540	232	2N1704	53	2N1963	50	2N2145	232
2N1251	641	2N1388	53	2N1540A	232	2N1705	254	2N1963/46	53	2N2145A	232
2N1252	53	2N1389	53	2N1541	232	2N1706	254	2N1964	50	2N2146	232
2N1253	53	2N1391	641	2N1541A	232	2N1707	254	2N1964/46	53	2N2146A	232
2N1254	51	2N1395	3	2N1542	232	2N1708	50	2N1965	50	2N2147	232
2N1255	51	2N1396	3	2N1542A	232	2N1708A	50	2N1965/46	53	2N2148	232
2N1256	51	2N1397	3	2N1544	230/232	2N1711	736	2N1969	254	2N2152	231/233
2N1257	2	2N1403	230/232	2N1544A	230/232	2N1726	2	2N1970	233	2N2152A	231/233
2N1258	51	2N1404	254	2N1545	624	2N1727	2	2N1971	232	2N2153	237
2N1259	51	2N1404A	2	2N1545A	624	2N1728	2	2N1972	53	2N2153A	237
2N1264	253	2N1405	3	2N1546	232	2N1730	641	2N1973	53	2N2154	237
2N1265	254	2N1406	3	2N1546A	232	2N1731	253	2N1974	53	2N2154A	237
2N1265/5	254	2N1407	3	2N1547	232	2N1732	641	2N1975	53	2N2155	237
2N1266	254	2N1408	2	2N1547A	232	2N1742	3	2N1980	231/233	2N2156	237
2N1273	253	2N1409	625	2N1548	625	2N1743	253	2N1981	231/233	2N2156A	237
2N1273BLU	633	2N1410	2	2N1549	230/232	2N1744	253	2N1982	233	2N2157	237
2N1273GRN	632	2N1411	3	2N1549A	230/232	2N1745	3	2N1983	53	2N2157A	237
2N1273ORN	632	2N1412	233	2N1550	232	2N1746	3	2N1984	53	2N2158	237
2N1273RED	631	2N1413	253	2N1550A	232	2N1747	3	2N1985	53	2N2158A	237
2N1273YEL	632	2N1414	253	2N1551	232	2N1748	2	2N1986	53	2N2159	233
2N1274	254	2N1415	254	2N1551A	232	2N1748A	2	2N1987	53	2N2159A	233
2N1274BLU	633	2N1416	254	2N1552	232	2N1749	2	2N1988	53	2N2160	310
2N1274BRN	631	2N1417	53	2N1552A	232	2N1750	3	2N1991	51	2N2161	53
2N1274GRN	632	2N1418	53	2N1553	230/232	2N1752	2	2N1992	50	2N2162	51
2N1274ORN	632	2N1419	232	2N1553A	230/232	2N1753	2	2N1993	641	2N2163	51
2N1274RED	631	2N1420	53	2N1554	232	2N1754	2	2N1997	254	2N2164	51
2N1274VIO	633	2N1425	3	2N1554A	232	2N1763	53	2N1998	254	2N2165	51
2N1276	53	2N1426	3	2N1555	232	2N1764	50	2N1999	2	2N2166	51
2N1277	53	2N1427	3	2N1555A	232	2N1770	R1241	2N2000	254	2N2167	51
2N1278	53	2N1428	51	2N1556	232	2N1771	R1241	2N2001	254	2N2168	2
2N1279	53	2N1429	51	2N1556A	232	2N1772	R1243	2N2002	51	2N2169	2
2N1280	254	2N1430	232	2N1557	230/232	2N1773	R1243	2N2003	51	2N2170	2
2N1281	254	2N1431	641	2N1557A	230/232	2N1774	R1243	2N2004	51	2N2171	254
2N1282	2	2N1432	3	2N1558	232	2N1779	641	2N2005	51	2N2172	254
2N1284	254	2N1436	2	2N1558A	232	2N1780	641	2N2006	51	2N2173	253
2N1285	3	2N1439	51	2N1559	232	2N1781	641	2N2007	51	2N2175	251
2N1287	253	2N1440	51	2N1559A	232	2N1782	3	2N2017	243	2N2176	251
2N1287A	254	2N1441	51	2N1560	232	2N1783	641	2N2022	2	2N2177	251
2N1288	641	2N1442	51	2N1560A	232	2N1784	3	2N2038	53	2N2178	52
2N1289	641	2N1443	51	2N1561	3	2N					

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DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
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2N2190	2	2N2372	52	2N2627	2	2N2920	two S0007	2N3125	232	2N3286	3
2N2191	2	2N2373	52	2N2628	2	2N2921	722	2N3127	3	2N3287	56
2N2192	S3001	2N2374	254	2N2629	2	2N2922	722	2N3132	232	2N3288	56
2N2192A	S3001	2N2375	254	2N2630	3	2N2923	723	2N3133	51	2N3289	56
2N2192B	S3001	2N2376	254	2N2631	S3010	2N2924	724	2N3134	51	2N3290	56
2N2194	53	2N2377	52	2N2635	3	2N2925	725	2N3135	51	2N3291	56
2N2194A	53	2N2378	52	2N2636	236	2N2926	726	2N3136	51	2N3292	56
2N2194B	53	2N2380	736	2N2637	236	2N2926-6	54	2N3137	56	2N3293	56
2N2199	2	2N2381	2	2N2638	236	2N2926GRN	726	2N3138	S5003	2N3294	56
2N2200	2	2N2382	2	2N2639	two 729	2N2926ORN	725	2N3140	S5003	2N3295	S3008
2N2205	50	2N2386	803	2N2640	two 729	2N2927	51	2N3142	S5003	2N3298	713
2N2206	50	2N2386A	803	2N2641	two 729	2N2927/46	52	2N3144	S5003	2N3299	S3008
2N2207	638	2N2398	2	2N2642	two 728	2N2928	3	2N3148	3	2N3300	S3008
2N2208	635	2N2399	2	2N2643	two 728	2N2929	2	2N3152	S3021	2N3301	736
2N2209	253	2N2400	3	2N2644	two 728	2N2931	54	2N3153	3	2N3302	736
2N2210	233	2N2401	3	2N2646	310	2N2932	54	2N3163	248	2N3303	S3001
2N2212	232	2N2402	3	2N2647	310	2N2933	54	2N3164	S5002	2N3305	51
2N2217	S3001	2N2405	714	2N2648	2	2N2934	54	2N3165	S5005	2N3306	51
2N2218	S3001	2N2410	S3001	2N2651	56	2N2935	54	2N3166	S5005	2N3307	52
2N2218A	S3001	2N2411	52	2N2654	636	2N2938	50	2N3167	S5008	2N3308	52
2N2219	S3001	2N2412	50	2N2656	50	2N2942	2	2N3168	S5002	2N3310	53
2N2219A	S3001	2N2413	50	2N2659	238	2N2943	2	2N3169	S5005	2N3311	231
2N2220	55	2N2415	3	2N2660	239	2N2944	52	2N3170	S5005	2N3312	231/233
2N2221	55	2N2416	3	2N2661	239	2N2945	52	2N3171	248	2N3313	233
2N2222	736	2N2423	232	2N2662	238	2N2945A	52	2N3172	248	2N3314	231
2N2222A	S3001	2N2424	51	2N2663	239	2N2946	52	2N3173	S5006	2N3315	231/233
2N2222B	S3001	2N2425	51	2N2664	239	2N2946A	52	2N3174	S5005	2N3316	233
2N2225	2	2N2426	641	2N2665	238	2N2949	S3001	2N3175	S5008	2N3317	52
2N2236	53	2N2427	50	2N2666	239	2N2951	53	2N3176	S5002	2N3318	52
2N2237	50	2N2428	251	2N2667	239	2N2952	50	2N3177	S5005	2N3319	52
2N2238	2	2N2429	253	2N2671	3	2N2953	254	2N3178	S5005	2N3320	3
2N2240	53	2N2430	641	2N2672	635	2N2955	3	2N3179	S5008	2N3321	3
2N2241	53	2N2431	238	2N2672A	2	2N2956	3	2N3180	S5002	2N3322	3
2N2242	50	2N2432	50	2N2672BLK	635	2N2957	3	2N3181	S5005	2N3323	3
2N2244	50	2N2446	232	2N2672GRN	635	2N2958	53	2N3182	S5005	2N3324	636
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2N2246	50	2N2448	631	2N2674	52	2N2960	53	2N3184	248	2N3326	S3001
2N2247	50	2N2449	633	2N2675	50	2N2961	53	2N3185	S5005	2N3328	803
2N2248	50	2N2450	633	2N2676	50	2N2966	3	2N3186	S5005	2N3329	803
2N2249	50	2N2451	3	2N2677	3	2N2967	3	2N3187	S5008	2N3330	803
2N2250	50	2N2455	2	2N2678	50	2N2968	3	2N3188	S5002	2N3331	803
2N2251	50	2N2456	3	2N2692	50	2N3004	R1005	2N3189	S5005	2N3332	803
2N2252	50	2N2466	50	2N2693	50	2N3007	R1003	2N3190	S5005	2N3333	two F1035
2N2253	50	2N2467	238	2N2695	52	2N3008	R1005	2N3191	S5008	2N3334	two F1035
2N2254	50	2N2475	56	2N2696	52	2N3009	50	2N3192	S5002	2N3335	two F1035
2N2255	50	2N2476	53	2N2699	641	2N3010	56	2N3193	S5005	2N3336	two F1035
2N2256	50	2N2477	53	2N2706	632	2N3011	56	2N3194	S5005	2N3337	S0004
2N2257	50	2N2481	50	2N2708	56	2N3012	52	2N3195	S5005	2N3338	S0004
2N2258	3	2N2482	641	2N2709	51	2N3013	56	2N3196	248	2N3339	S0004
2N2259	3	2N2483	729	2N2710	56	2N3014	56	2N3197	S5005	2N3340	50
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2N2275	52	2N2491	233	2N2716	724	2N3031	R1002	2N3203	242	2N3346	51
2N2276	52	2N2492	233	2N2717	3	2N3039	715	2N3204	S3003	2N3347	715
2N2277	52	2N2493	233	2N2719	50	2N3040	716	2N3208	242	2N3348	715
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2N2281	52	2N2501	50	2N2784/52	56	2N3046	two 729	2N3216	2	2N3352	715
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2N2287	232	2N2522	53	2N2795	3	2N3049	two 716	2N3219	52	2N3376	803
2N2288	230/232	2N2523	53	2N2796	3	2N3050	two 716	2N3224	S3031	2N3377	F1035
2N2289	232	2N2524	53	2N2797	2	2N3051	two 716	2N3225	S3031	2N3378	803
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2N2291	230	2N2527	234	2N2799	2	2N3054	703	2N3227	56	2N3380	803
2N2292	232	2N2528	644	2N2800	51	2N3055	704	2N3228	R1221	2N3381	F1038
2N2293	232	2N2529	50	2N2800/46	51	2N3057	714	2N3232	247	2N3382	803
2N2294	230	2N2530	50	2N2801	52	2N3057A	714	2N3233	S5004	2N3383	F1035
2N2295	232	2N2531	50	2N2801/46	52	2N3058	52	2N3234	707	2N3384	803
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2N2297	714	2N2533	50	2N2803	two 715	2N3060	52	2N3236	704	2N3386	803
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2N2303/46	51	2N2539	50	2N2805	two 715	2N3069	802	2N3238	704	2N3390	730
2N2304	243	2N2540	50	2N2806	two 715	2N3070	802	2N3239	704	2N3391	726
2N2305	247	2N2564/5	238	2N2807	two 715	2N3071	802	2N3241	53	2N3391A	726
2N2309	53	2N2565/5	238	2N2831	50	2N3072	52	2N3241A	53	2N3392	724
2N2310	53	2N2566/5	239	2N2832	626	2N3073	52	2N3242	50	2N3393	723
2N2312	53	2N2567/5	239	2N2833	236	2N3074	3	2N3242A	53	2N3394	723
2N2314	53	2N2569	50	2N2836	232	2N3075	253	2N3244	S3027	2N3395	726
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2N2332	52	2N2595	52	2N2855	243	2N3085	802	2N3250	52	2N3401	51
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2N2349	53	2N2604	52	2N2869	232	2N3089A	802	2N3257	R1001	2N3410	two S0004
2N2353	53	2N2605	52	2N2869/2N301	232	2N3107	S3002	2N3258	R1001	2N3411	two S0004
2N2353A	53	2N2605A	52	2N2870	232	2N3108	S3002	2N3259	R1002	2N3412	2
2N2354	641	2N2610	53	2N2870/2N301A	232	2N3109	S3001	2N3261	53	2N3414	S0002
2N2357	232	2N2613	632	2N2873	3	2N3110	S3001	2N3262	714	2N3415	S0003
2N2358	232	2N2614	632	2N2894	52	2N3112	803	2N3267	3	2N3416	736
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2N2361	2	2N2617	52	2N2904	708	2N3114	7				

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DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
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2N3441	241	2N3640	57	2N3774	242	2N3939	R1245	2N4135	709	2N4275	50
2N3442	707	2N3641	736	2N3775	242	2N3940	R1246	2N4137	S0004	2N4286	54
2N3443	2	2N3642	736	2N3776	S3031	2N3945	S3010	2N4138	733	2N4287	54
2N3444	S3002	2N3643	736	2N3777	S3031	2N3946	713	2N4140	50	2N4288	57
2N3445	247	2N3644	716	2N3778	242	2N3947	713	2N4141	55	2N4290	57
2N3446	S5004	2N3645	708	2N3779	242	2N3948	75	2N4142	52	2N4291	57
2N3447	247	2N3646	50	2N3780	S3031	2N3953	709	2N4143	57	2N4294	S0004
2N3448	704	2N3647	736	2N3781	S3031	2N3959	730	2N4144	R1001	2N4295	S0004
2N3449	3	2N3648	56	2N3782	242	2N3962	708	2N4145	R1001	2N4296	240
2N3451	52	2N3649	R1301	2N3783	3	2N3964	715	2N4146	R1002	2N4297	240
2N3461	238	2N3650	R1302	2N3784	3	2N3965	715	2N4147	R1003	2N4298	240
2N3462	50	2N3651	R1304	2N3785	3	2N3966	801	2N4148	R1004	2N4299	240
2N3463	50	2N3652	R1306	2N3788	707	2N3967	801	2N4149	R1005	2N4300	S3002
2N3464	51	2N3653	R1307	2N3789	248	2N3967 A	801	2N4150	S3002	2N4302	802
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2N3468	S3031	2N3655	R1302	2N3791	248	2N3968 A	801	2N4152	620	2N4304	802
2N3469	243	2N3656	R1304	2N3792	248	2N3969	801	2N4153	620	2N4307	S3002
2N3478	56	2N3657	R1306	2N3793	56	2N3969 A	801	2N4154	620	2N4311	S3002
2N3485	51	2N3658	R1307	2N3794	55	2N3973	S0004	2N4155	620	2N4313	52
2N3485 A	51	2N3659	S3021	2N3798	57	2N3974	S0004	2N4156	620	2N4314	S3031
2N3486	51	2N3660	242	2N3799	57	2N3975	S0004	2N4159	620	2N4315	two 733
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2N3493	56	2N3662	56	2N3802	two 715	2N3977	739	2N4161	620	2N4317	R1221
2N3494	710	2N3663	56	2N3804	two 715	2N3978	739	2N4162	620	2N4318	R1221
2N3496	52	2N3665	714	2N3804 A	two 715	2N3979	739	2N4163	620	2N4319	R1222
2N3500	713	2N3666	714	2N3806	two 715	2N3980	310	2N4164	620	2N4332	R1222
2N3501	713	2N3667	704	2N3808	two 715	2N3983	56	2N4167	R1241	2N4333	R1001
2N3502	51	2N3671	51	2N3810	two 715	2N3984	56	2N4168	R1241	2N4334	R1002
2N3503	51	2N3672	57	2N3810 A	two 715	2N3985	56	2N4169	R1242	2N4335	R1004
2N3504	708	2N3673	57	2N3812	two 715	2N3993	803	2N4170	R1243	2N4336	R1005
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2N3506	S3002	2N3676	S3002	2N3816	two 715	2N3994	803	2N4172	R1245	2N4343	F 1035
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2N3508	56	2N3678	S3001	2N3819	802	2N3995	2	2N4174	R1247	2N4347	707
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2N3524	two 736	2N3695	803	2N3844	723	2N4023	two 715	2N4186	621	2N4383	S3026
2N3525	R1222	2N3696	803	2N3844 A	723	2N4024	two 715	2N4187	621	2N4385	S3026
2N3526	714	2N3697	803	2N3845	723	2N4025	two 715	2N4188	621	2N4387	702
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2N3544	56	2N3701	714	2N3854 A	723	2N4028	708	2N4201	R1246	2N4390	713
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2N3548	52	2N3705	55	2N3856 A	723	2N4032	S3031	2N4209	716	2N4399	S7001
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2N3550	52	2N3707	723	2N3858	723	2N4034	R1002	2N4213	R1002	2N4401	736
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2N3565	55	2N3712	714	2N3862	S0004	2N4041	S3005	2N4220 A	801	2N4406	S3003
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2N3568	736	2N3715	247	2N3865	707	2N4048	G6002	2N4222	801	2N4410	S0001
2N3569	736	2N3716	704	2N3866	S3008	2N4051	G6002	2N4222 A	801	2N4411	52
2N3571	709	2N3719	242	2N3866 A	S3008	2N4054	244	2N4223	801	2N4412	51
2N3572	709	2N3720	242	2N3867	242	2N4055	244	2N4224	801	2N4412 A	242
2N3573	803	2N3721	54	2N3868	242	2N4056	244	2N4225	S3002	2N4413	716
2N3574	803	2N3722	714	2N3869	S3001	2N4057	244	2N4226	S3002	2N4413 A	708
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2N3576	52	2N3724	714	2N3877 A	712	2N4059	52	2N4228	715	2N4414 A	242
2N3579	52	2N3724 A	S3020	2N3878	241	2N4060	52	2N4231	241	2N4415	716
2N3580	52	2N3725	714	2N3879	241	2N4061	52	2N4232	241	2N4415 A	708
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2N3588	3	2N3729	two 729	2N3896	R1472	2N4071	707	2N4237	243	2N4421	50
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2N3590	S3021	2N3731	235	2N3898	R1475	2N4073	75	2N4239	714	2N4424	736
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2N3592	S3021	2N3734	S3020	2N3900 A	724	2N4078	643	2N4242	625	2N4427	S3008
2N3593	S3021	2N3735	S3020	2N3901	55	2N4086	55	2N4243	625	2N4428	S3001
2N3594	S3021	2N3736	S3020	2N3902	740	2N4087	55	2N4244	232	2N4432	736
2N3595	S3021	2N3737	S3020	2N3903	736	2N4087 A	55	2N4245	625	2N4432 A	736
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2N3608	803	2N3753	R1301	2N3911	739	2N4103	R1223	2N4252	709	2N4443	R1222
2N3611	230/232	2N3754	R1302	2N3912	739	2N4106	238	2N4253	709	2N4444	R1223
2N3612	232	2N3755	R1304	2N3914	739	2N4108	R1002	2N4254	56	2N4449	50
2N3613	230/232	2N3756	R1306	2N3915	739	2N4109	R1003	2N4255	56	2N4450	S0004
2N3614	232	2N3757	R1307	2N3916	714	2N4110	R1005	2N4256	55	2N4451	715
2N3615	232	2N3758	R1246	2N3917	S5000	2N4111	704	2N4257	52	2N44	

HEP Semiconductor Replacement Cross-References

DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
2N4874	S3008	2N5065	53	2N5296	S5003	2N5531	S3002	2N5819	716	2N6005	716
2N4875	S3008	2N5066	733	2N5297	S5000	2N5548	F1035	2N5820	243	2N6006	736
2N4876	S3008	2N5067	247	2N5298	S5000	2N5550	S0005	2N5821	242	2N6007	716
2N4877	S3010	2N5068	247	2N5301	S7000	2N5551	S0005	2N5822	243	2N6008	S0004
2N4878	two 738	2N5069	704	2N5302	S7000	2N5555	F0021	2N5823	242	2N6009	S3028
2N4879	two S0007	2N5073	S3021	2N5303	S7000	2N5559	707	2N5824	729	2N6010	S3020
2N4880	two 729	2N5079	S3001	2N5306	S9100	2N5569	R1751	2N5825	729	2N6011	S3027
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2N4891	310	2N5082	736	2N5309	713	2N5573	R1783	2N5827	728	2N6013	S3031
2N4892	310	2N5086	715	2N5310	713	2N5574	R1785	2N5827A	728	2N6014	S3020
2N4893	310	2N5087	57	2N5311	S0001	2N5581	S3001	2N5828	738	2N6015	S3031
2N4894	310	2N5088	730	2N5320	S3002	2N5582	S3001	2N5828A	738	2N6016	S3001
2N4898	702	2N5089	730	2N5321	S3010	2N5583	S3001	2N5830	S0005	2N6017	S3031
2N4899	702	2N5106	S3001	2N5322	S3003	2N5589	S3005	2N5831	S0005	2N6021	S5006
2N4900	702	2N5107	736	2N5323	S3003	2N5590	S3006	2N5832	S0005	2N6022	S5006
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2N4904	705	2N5110	242	2N5334	S3010	2N5599	702	2N5839	707	2N6026	S5006
2N4905	248	2N5111	S3031	2N5335	S3002	2N5600	241	2N5840	707	2N6027	52
2N4906	248	2N5116	803	2N5336	S3002	2N5601	702	2N5844	two 715	2N6068	R1721
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2N4908	248	2N5127	727	2N5354	51	2N5604	241	2N5845A	S0004	2N6070	R1722
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2N4910	703	2N5129	53	2N5356	716	2N5606	241	2N5848	S3007	2N6072	R1725
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2N4919	246	2N5138	52	2N5373	708	2N5621	248	2N5859	S3002	2N6086	two 728
2N4920	S5006	2N5139	52	2N5374	708	2N5622	247	2N5860	S3002	2N6087	two 729
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2N4937	two 715	2N5169	R1221	2N5399	718	2N5644	S3005	2N5873	S5001	2N6107	S5005
2N4938	two 715	2N5170	R1222	2N5404	S3003	2N5645	S3006	2N5874	S5004	2N6108	S5002
2N4939	two 715	2N5171	R1223	2N5406	S3003	2N5646	S3006	2N5875	248	2N6109	S5002
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2N4962	S3001	2N5190	S5003	2N5433	801	2N5688	S3005	2N5897	643	2N6139	R1751
2N4963	714	2N5191	S5003	2N5434	801	2N5697	75	2N5901	643	2N6160	R1783
2N4964	715	2N5192	S5000	2N5447	715	2N5699	S3006	2N5910	52	2N6161	R1785
2N4965	715	2N5193	S5007	2N5448	715	2N5700	S3007	2N5913	S3008	2N6175	244
2N4966	735	2N5194	S5006	2N5449	S3001	2N5701	S3007	2N5914	S3005	2N6176	244
2N4967	730	2N5195	S5007	2N5450	S3001	2N5702	75	2N5915	S3006	2N6178	S5000
2N4968	737	2N5200	720	2N5451	S3001	2N5703	S3006	2N5916	S3005	2N6179	S5000
2N4969	S0004	2N5201	720	2N5455	51	2N5704	S3006	2N5917	S3005	2N6180	S5006
2N4970	735	2N5208	52	2N5456	53	2N5705	S3007	2N5922	S3005	2N6181	S5006
2N4971	716	2N5209	729	2N5457	801	2N5710	75	2N5923	S3005	2N6182	S5005
2N4983	R1001	2N5210	728	2N5458	801	2N5719	R1002	2N5924	S3006	2N6183	S5005
2N4984	R1001	2N5219	722	2N5459	802	2N5720	R1003	2N5925	S3006	2N6184	S5005
2N4985	R1001	2N5220	721	2N5460	803	2N5721	R1005	2N5943	S3008	2N6185	S5005
2N4986	R1001	2N5221	51	2N5461	803	2N5724	R1002	2N5947	S3005	2N6186	S5005
2N4987	R1001	2N5222	720	2N5462	803	2N5725	R1003	2N5954	241	2N6187	S5005
2N4988	R1001	2N5223	727	2N5466	740	2N5726	R1005	2N5955	241	2N6188	S5005
2N4989	R1001	2N5224	727	2N5467	740	2N5729	S3002	2N5956	241	2N6189	S5006
2N4990	R1001	2N5225	721	2N5471	803	2N5732	S7000	2N5961	S0007	2N6190	S3003
2N4994	S0007	2N5226	716	2N5472	803	2N5737	248	2N5962	728	2N6191	S3003
2N4995	728	2N5227	S0006	2N5473	803	2N5738	S5005	2N5963	737	2N6206	S3005
2N4996	56	2N5232	736	2N5475	803	2N5739	S5002	2N5964	S0005	2N6207	S3007
2N4997	56	2N5232A	736	2N5476	803	2N5740	S5005	2N5965	S3021	2N6208	S3007
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2N5024	709	2N5236	75	2N5482	S3005	2N5759	707	2N5971	704	2N6229	S5005
2N5027	53	2N5239	707	2N5483	S3006	2N5760	707	2N5972	704	2N6246	S7001
2N5028	53	2N5240	707	2N5484	F0021	2N5763	708	2N5973	S7000	2N6247	S7001
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2N5032	709	2N5242	51	2N5486	F0021	2N5765	S3006	2N5975	S5005	2N6249	707
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2N5034	247	2N5244	52	2N5491	S5001	2N5782	S3003	2N5977	S5001	2N6251	707
2N5035	247	2N5245	F0021	2N5492	S5004	2N5783	242	2N5978	S5004	2N6253	704
2N5036	247	2N5246	F0021	2N5493	S5004	2N5784	S3002	2N5979	S5004	2N6254	704
2N5037	247	2N5247	F0021	2N5494	S5001	2N5785	S3010	2N5980	S5002	2N6257	S7000
2N5039	S7000	2N5248	802	2N5495	S5001	2N5786	242	2N5981	S5005	2N6258	S7000
2N5040	51	2N5252	S3021	2N5496	S5004	2N5790	R1005	2N5982	S5005	2N6260	703
2N5041	716	2N5253	S3022	2N5497	S5004	2N5804	707	2N5983	S5001	2N6261	703
2N5050	241	2N5254	two 52	2N5505	two F1035	2N5805	707	2N5984	S5004	2N6262	707
2N5051	241	2N5255	two 715	2N5506	two F1035	2N5806	R1473	2N5985	S5004	2N6263	241

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2N6307	707	2S174	253	2SA70MA	637	2SA135	637	2SA232	630	2SA335	635
2N6308	707	2S178	253	2SA71	640	2SA136	639	2SA233	3	2SA337	635
2N6338	S7000	2S179	254	2SA71A	253	2SA137	639	2SA233A	635	2SA338	639
2N98A	253	2S189	254	2SA71AB	639	2SA138	250	2SA233B	636	2SA339	639
2N99A	254	2S302	51	2SA71AC	640	2SA139	254	2SA233C	636	2SA340	637
2N99D	254	2S302A	52	2SA71B	635	2SA141	254	2SA234	637	2SA341	637
2N950	636	2S303	51	2SA71BS	635	2SA141B	253	2SA234A	635	2SA342	637
2N951	253	2S304	51	2SA71D	635	2SA141C	253	2SA234B	637	2SA342A	637
2N952	253	2S306	51	2SA71Y	635	2SA141D	635	2SA234C	637	2SA343	639
2N953	254	2S307	51	2SA72	639	2SA142	254	2SA235	637	2SA344	638
2-OA90	135	2S322	52	2SA72BLU	640	2SA142A	250	2SA235A	637	2SA345	3
2OC72	253	2S322A	52	2SA72BLU BLU	640	2SA142B	254	2SA235B	636	2SA346	3
2R9.1	Z2513	2S323	52	2SA72BRN	639	2SA142C	254	2SA235C	637	2SA347	3
2R9.1A	Z2513	2S324	52	2SA72ORN	639	2SA143	250	2SA235H	637	2SA348	3
2R9.1B	Z2513	2S326	52	2SA72WHT	640	2SA144	638	2SA236	639	2SA349	3
2R10	Z2514	2S327	52	2SA73	639	2SA144C	638	2SA237	639	2SA350	639
2R10A	Z2514	2S501	50	2SA74	638	2SA145	638	2SA238	3	2SA350A	639
2R10B	Z2514	2S502	50	2SA75	638	2SA145A	253	2SA239	3	2SA350C	253
2R12	Z2516	2S503	50	2SA75B	253	2SA145C	638	2SA240	3	2SA350H	638
2R12A	Z2516	2S512	52	2SA76	639	2SA146	640	2SA240A	635	2SA350R	251
2R12B	Z2516	2S701	51	2SA77	639	2SA147	640	2SA240B	636	2SA350T	254
2R15	Z2519	2S702	51	2SA78	629	2SA148	640	2SA240B2	636	2SA350TY	636
2R15A	Z2519	2S703	51	2SA79	254	2SA149	640	2SA241	640	2SA350Y	635
2R15B	Z2519	2S711	53	2SA80	637	2SA150	640	2SA242	640	2SA351	639
2R18	Z2522	2S712	53	2SA81	638	2SA151	250	2SA243	640	2SA351A	639
2R18A	Z2522	2S731	52	2SA82	638	2SA152	250	2SA244	3	2SA351B	639
2R18B	Z2522	2S732	52	2SA83	638	2SA153	639	2SA245	3	2SA352	639
2R22	Z2525	2S733	52	2SA84	638	2SA154	639	2SA246	3	2SA352A	253
2R22A	Z2525	2S741	51	2SA85	638	2SA155	639	2SA246V	3	2SA352B	636
2R22B	Z2525	2S742	51	2SA86	635	2SA156	639	2SA247	1	2SA353	639
2R27	Z2528	2S744	51	2SA87	638	2SA157	639	2SA248	636	2SA353A	254
2R27A	Z2528	2S745	51	2SA88	638	2SA159	639	2SA250	637	2SA353C	638
2R27B	Z2528	2S3010	715	2SA89	638	2SA160	639	2SA251	635	2SA354	640
2R33	Z2531	2S3020	715	2SA90	636	2SA161	636	2SA252	635	2SA354A	640
2R33A	Z2531	2S3021	52	2SA92	639	2SA162	636	2SA253	2	2SA354B	640
2R33B	Z2531	2S3030	722	2SA92-G	639	2SA163	636	2SA254	637	2SA355	640
2R56	Z2537	2S3040	717	2SA93	639	2SA164	636	2SA255	639	2SA355A	638
2R56A	Z2537	2S3210	52	2SA93-G	639	2SA165	636	2SA256	639	2SA356	639
2R56B	Z2537	2S3220	52	2SA94	639	2SA166	636	2SA257	640	2SA357	639
2R82	Z2542	2S3221	52	2SA100	639	2SA167	250	2SA258	639	2SA358	251
2R82A	Z2542	2S3230	52	2SA100A	636	2SA168	635	2SA259	637	2SA359	2
2R82B	Z2542	2S3240	52	2SA100B	639	2SA168A	635	2SA260	3	2SA360	3
2R100	Z2545	2SA358	251	2SA100C	639	2SA169	250	2SA261	3	2SA361	3
2R100A	Z2545	2SA12	253	2SA101	638	2SA170	250	2SA262	3	2SA362	3
2R100B	Z2545	2SA12A	253	2SA101A	638	2SA171	250	2SA263	3	2SA363	3
2R120	Z2547	2SA12B	253	2SA101AA	638	2SA172	250	2SA264	3	2SA364	637
2R120A	Z2547	2SA12C	253	2SA101AY	636	2SA172A	254	2SA265	3	2SA365	637
2R120B	Z2547	2SA12D	254	2SA101BA	635	2SA173	250	2SA266	639	2SA366	637
2S13	254	2SA12H	250	2SA101BB	635	2SA174	250	2SA267	639	2SA367	639
2S14	254	2SA12V	253	2SA101BC	254	2SA175	639	2SA268	639	2SA368	639
2S15	254	2SA13	250	2SA101BX	254	2SA176	636	2SA269	639	2SA369	639
2S15A	254	2SA14	250	2SA101C	635	2SA179	629	2SA270	639	2SA371	250
2S-16E	R0050	2SA15	250	2SA101CA	254	2SA180	631	2SA271	639	2SA372	636
2S22	254	2SA15H	250	2SA101CV	635	2SA181	631	2SA272	639	2SA373	2
2S30	636	2SA15V	635	2SA101CX	253	2SA182	631	2SA273	638	2SA375	635
2S31	253	2SA15V/R	635	2SA101E	635	2SA183	3	2SA274	638	2SA375A-2B	234
2S32	253	2SA15YEL	635	2SA101X	638	2SA188	638	2SA275	638	2SA376	636
2S33	254	2SA16	250	2SA101Y	636	2SA189	639	2SA276	3	2SA377	640
2S34	254	2SA17	251	2SA101YA	253	2SA197	640	2SA277	250	2SA378	640
2S35	2	2SA17H	251	2SA101YEL	638	2SA198	640	2SA278	250	2SA379	640
2S36	2	2SA18	251	2SA101Z	253	2SA201	253	2SA279	638	2SA380	639
2S37	254	2SA18H	251	2SA102	638	2SA201.0	253	2SA280	638	2SA380AORN	56
2S38	254	2SA19	639	2SA102A	253	2SA201A	636	2SA281	638	2SA381	639
2S39	254	2SA20	639	2SA102AA	638	2SA201B	253	2SA282	250	2SA382	639
2S40	254	2SA21	639	2SA102AB	251	2SA201CL	632	2SA283	254	2SA383	639
2S41	230/232	2SA26	250	2SA102BA	638	2SA201E	254	2SA284	639	2SA384	639
2S41A	230/232	2SA28	639	2SA102BB	638	2SA201ORN	253	2SA285	639	2SA385	250
2S42	230/232	2SA29	639	2SA102BN	253	2SA202	253	2SA286	639	2SA385A	251
2S43	254	2SA29-3	53	2SA102CA	638	2SA202A	253	2SA287	639	2SA385L	253
2S44	254	2SA30	637	2SA102CB	638	2SA202AP	254	2SA288	3	2SA391	636
2S45	253	2SA31	254	2SA102DA	638	2SA202B	253	2SA288A	253	2SA392	636
2S49	253	2SA32	250	2SA102DB	638	2SA202C	254	2SA289	3	2SA393	636
2S52	253	2SA33	250	2SA102TV	253	2SA202D	640	2SA290	3	2SA393A	636
2S53	253	2SA35	637	2SA103	638	2SA203	253	2SA291	638	2SA394	636
2S54	254	2SA36	254	2SA103A	638	2SA203A	253	2SA292	638	2SA395	636
2S56	254	2SA37	250	2SA103B	253	2SA203AA	253	2SA293	638	2SA396	636
2S60	639	2SA38	250	2SA103C	638	2SA203B	253	2SA294	638	2SA397	636
2S91	253	2SA39	250	2SA103CA	638	2SA203P	254	2SA295	638	2SA398	636
2S92	253	2SA40	254	2SA103CG	638	2SA204	631	2SA296	638	2SA399	636
2S92A	253	2SA41	631	2SA103DA	253	2SA205	631	2SA297	638	2SA400	639
2S93	253	2SA42	631	2SA104	638	2SA206	631	2SA298	638	2SA401	3
2S93A	253	2SA43	638	2SA104D	254	2SA207	631	2SA301	638	2SA402	52
2S001	51	2SA44	253	2SA104P	253	2SA208	253	2SA302	631	2SA403	3
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2S005	51	2SA45-2	635	2SA107	639	2SA209H	253	2SA305	250	2SA406	631
2S014	51	2SA45-3	635	2SA108	639	2SA210	253	2SA306	638	2SA407	631
2S017	243	2SA49	639	2SA109	637	2SA210H	254	2SA307	638	2SA408	635
2S019	243	2SA50	632	2SA110	637	2SA211	250	2SA308	637	2SA409	635
2S022	52	2SA51	250	2SA111	637	2SA212	631	2SA309	637	2SA410	3
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2S112	636	2SA59	639	2SA122	639	2SA219	1	2SA322	639	2SA420	637
2S131	52	2SA60	639	2SA123	639	2SA220	1	2SA323	637	2SA421	637
2S141	636	2SA60-G	639	2SA124	1	2SA221	637	2SA324	637	2SA422	3
2S142	636	2SA61	637	2SA125	1	2SA222	637	2SA325	254	2SA425	2
2S143	635	2SA64	250	2SA126	1	2SA223	637	2SA326	254	2SA426	2
2S145	635	2SA65	250	2SA128	629	2SA224	637	2SA327	638	2SA427	638
2S146	635	2SA66	250	2SA129	629	2SA225	637	2SA329	635	2SA428	638
2S155	253	2SA67	250	2SA130	637	2SA226	637	2SA329A	636	2SA430	638
2S159	253	2SA69	640	2SA131	637	2SA227	637	2SA329B	636	2SA431	3
2S160	253	2SA70	640	2SA132	637	2SA229	3	2SA330	635	2SA431A	3
2S163	254	2SA70F	636	2SA133	637	2SA23					

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DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	
2SA432	3	2SA498	716	2SA550YEL	S3031	2SA6428	716	2SB53	250	2SB132A	232	
2SA432A	3	2SA498ORN	242	2SA551	S3031	2SA642GRN	716	2SB54	633	2SB134	250	
2SA433	639	2SA498RED	51	2SA551C	S3031	2SA642ORN	716	2SB54B	633	2SB134E	250	
2SA433A	636	2SA498YEL	242	2SA551D	S3031	2SA642RED	716	2SB548A	254	2SB135	250	
2SA434	3	2SA499	52	2SA551E	S3031	2SA642YEL	716	2SB54L	253	2SB135A	253	
2SA435	3	2SA499A	716	2SA552	708	2SA643	708	S3027	2SB54YEL	633	2SB135B	635
2SA435A	635	2SA499ORN	52	2SA560	S3031	2SA643R	242	2SB55	630	2SB135C	635	
2SA435B	636	2SA499RED	51	2SA561	715	2SA643W	716	2SB56	632	2SB135D	633	
2SA436	3	2SA499YEL	52	2SA561GRN	716	2SA645	S3031	2SB56A	629	2SB135E	635	
2SA437	3	2SA500	52	2SA561ORN	715	2SA646	S3031	2SB56C	632	2SB136	250	
2SA438	3	2SA500A	52	2SA561P	715	2SA648	S5005	2SB56E	632	2SB136A	630	
2SA440	3	2SA500ORN	52	2SA561RED	52	2SA656	S5005	2SB57	254	2SB136B	254	
2SA440A	3	2SA500RED	52	2SA561YEL	52	2SA657	S5005	2SB59	254	2SB136C	254	
2SA446	2	2SA500YEL	52	2SA562	51	2SA658	S5005	2SB60	250	2SB136D	253	
2SA447	638	2SA501	51	2SA562GRN	716	2SA659	715	2SB60A	250	2SB136U	254	
2SA448	637	2SA502	708	2SA562ORN	51	2SA659C	715	2SB61	250	2SB137	230	
2SA450	1	2SA502-G	716	2SA562RED	52	2SA659D	715	2SB63	642	2SB138	232	
2SA450H	1	2SA503	708	2SA562YEL	52	2SA659E	715	2SB64	644	2SB138A	232	
2SA451	1	2SA503GRN	S3031	2SA564	57	2SA661	708	2SB65	250	2SB138B	232	
2SA451H	1	2SA503ORN	S3001	2SA564A	715	2SA663	S5005	2SB66	250	2SB140	230/232	
2SA452	1	2SA503YEL	S3031	2SA564 ABQ	716	2SA666	726	2SB66H	632	2SB141	232	
2SA452H	1	2SA504	708	2SA564F	708	2SA666P	719	2SB67	629	2SB142	230	
2SA453	3	2SA504GRN	S3031	2SA564FQ	716	2SA666Q	724	2SB67A	629	2SB142H	254	
2SA454	3	2SA504ORN	51	2SA564FR	716	2SA666R	725	2SB67AH	629	2SB142C	254	
2SA455	3	2SA504YEL	S3031	2SA564ORN	716	2SA666S	726	2SB67H	629	2SB143	230	
2SA456	3	2SA505	246	2SA564P	715	2SA666T	737	2SB69	232	2SB143P	230	
2SA457	637	2SA505-ORN	246	2SA564Q	739	2SA673	242	2SB71	254	2SB144	230	
2SA458	631	2SA505-RED	246	2SA564R	57	2SA673B	242	2SB73	1	2SB144P	230	
2SA459	632	2SA505YEL	52	2SA564RED	716	2SA673C	242	2SB73A	1	2SB145	230	
2SA460	3	2SA506	3	2SA564S	S0006	2SA673D	242	2SB73B	3	2SB146	230	
2SA461	3	2SA507	3	2SA565	708	2SA675	710	2SB74	638	2SB147	232	
2SA462	3	2SA508	3	2SA565A	708	2SA677	57	2SB75	250	2SB149	230/232	
2SA463	3	2SA509	52	2SA565AB	708	2SA678	715	2SB75A	631	2SB151	625	
2SA464	637	2SA509-G	52	2SA565B	708	2SA678A	715	2SB75AH	631	2SB152	625	
2SA466-2	253	2SA509GRN	716	2SA565BA	716	2SA695C	242	2SB75B	254	2SB153	250	
2SA466-3	253	2SA509ORN	716	2SA565C	708	2SA699	246	2SB75C	632	2SB154	250	
2SA466BLK	639	2SA509RED	716	2SA567	57	2SA699A	246	2SB75F	632	2SB155	250	
2SA466BLU	639	2SA509YEL	716	2SA567A	715	2SA701	57	2SB75H	250	2SB155A	250	
2SA466YEL	639	2SA511	S3031	2SA567B	716	2SA702	715	2SB75LB	254	2SB156	253	
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2SA467-G	708	2SA511RED	S3031	2SA567ORN	716	2SA704A	715	2SB77	250	2SB156AA	254	
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2SA470	639	2SA512RED	S3003	2SA568	52	2SA704YEL	715	2SB77AB	632	2SB156C	253	
2SA471	639	2SA513	S3031	2SA568A	52	2SA705	715	2SB77AC	633	2SB156D	253	
2SA471-1	639	2SA513A	S3031	2SA568B	52	2SA705A	715	2SB77AH	632	2SB157	639	
2SA471-2	639	2SA513ORN	S3031	2SA568GRN	716	2SA705B	715	2SB77AP	629	2SB158	639	
2SA471-3	251	2SA513RED	242	2SA568RED	716	2SA705GRN	715	2SB77B	633	2SB159	639	
2SA472	639	2SA516	S3031	2SA568YEL	716	2SA705RED	715	2SB77C	633	2SB160	639	
2SA472-1	638	2SA517	639	2SA569	715	2SA705YEL	715	2SB77H	632	2SB161	250	
2SA472-2	639	2SA518	639	2SA569A	715	2SA719	716	2SB78	250	2SB162	631	
2SA472-4	638	2SA518-G	3	2SA569GRN	716	2SA720	716	2SB79	250	2SB163	250	
2SA472-5	636	2SA522	52	2SA569RED	716	2SA730	S3027	2SB80	642	2SB164	632	
2SA472-6	632	2SA522A	52	2SA569YEL	716	2SA731	S3031	2SB83	232	2SB165	251	
2SA472A	640	2SA525	52	2SA570	708	2SB16A	238	2SB84	232	2SB166	635	
2SA472B	640	2SA525A	52	2SA570A	708	2SB17A	238	2SB88	631	2SB167	254	
2SA472C	638	2SA525B	52	2SA570GRN	716	2SB18A	239	2SB89A	631	2SB168	250	
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2SA473	246	2SA530	715	2SA570YEL	716	2SB21	238	2SB90	251	2SB171	254	
2SA474	638	2SA530B	716	2SA571	S3031	2SB22	632	2SB91	250	2SB171A	254	
2SA474-G	638	2SA530-G	716	2SA578	S0006	2SB22A	632	2SB92	254	2SB171B	254	
2SA475	638	2SA530GRN	716	2SA579	S0006	2SB22B	633	2SB94	251	2SB172	254	
2SA476	639	2SA530H	715	2SA594	708	2SB22ORN	632	2SB95	639	2SB172A	254	
2SA477	639	2SA530ORN	715	2SA594ORN	708	2SB22P	254	2SB97	250	2SB172D	254	
2SA478	629	2SA530YEL	52	2SA594RED	708	2SB22YEL	633	2SB98	254	2SB172F	250	
2SA478-G	632	2SA532	51	2SA594YEL	708	2SB23	1	2SB99	251	2SB173	254	
2SA479	632	2SA536	S3031	2SA595	242	2SB24	242	2SB100	254	2SB173A	254	
2SA479-G	632	2SA537	708	2SA595C	242	2SB25	232	2SB101	250	2SB173B	250	
2SA480	52	2SA537A	S3031	2SA597	242	2SB25B	253	2SB102	250	2SB173C	254	
2SA482	51	2SA537AH	S3003	2SA603	708	2SB26	230	2SB103	250	2SB174	254	
2SA484	238	2SA537H	S3003	2SA608	52	2SB26A	230/232	2SB104	250	2SB175	254	
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2SA485YEL	S3031	2SA538-G	632	2SA608C	52	2SB28	230	2SB106	238	2SB175B	254	
2SA486RED	242	2SA539	715	2SA608D	52	2SB29	230	2SB107	238	2SB176	632	
2SA486YEL	S3031	2SA539L	717	2SA608E	52	2SB30	230	2SB107A	230	2SB176P	632	
2SA489	S5002	2SA539M	715	2SA608F	52	2SB31	230	2SB108	629	2SB176RED	632	
2SA490	708	2SA539RED	716	2SA609	52	2SB32	250	2SB108A	629	2SB177	632	
2SA490Y	708	2SA542	57	2SA609A	52	2SB32-0	253	2SB109	238	2SB177	629	
2SA493	715	2SA542RED	716	2SA609E	52	2SB32-1	253	2SB109A	238	2SB178	254	
2SA493B	716	2SA543	57	2SA609F	52	2SB32-2	253	2SB110	253	2SB178A	254	
2SA493GRN	716	2SA544	708	2SA610	52	2SB32-4	254	2SB111	253	2SB178C	254	
2SA493RED	708	2SA544RED	716	2SA610B	52	2SB33	250	2SB111K	253	2SB178M	254	
2SA493YEL	708	2SA545	708	2SA611	52	2SB33-4	253	2SB112	254	2SB178N	254	
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2SA494GRN	52	2SA545L	708	2SA614	702	2SB33C	251	2SB114	250	2SB178T	254	
2SA494ORN	52	2SA546	S3031	2SA623	S3028	2SB33D	251	2SB115	254	2SB178V	254	
2SA494YEL	52	2SA546A	S3031	2SA624	S3031	2SB33E	253	2SB116	254	2SB178X	254	
2SA495	52	2SA546B	S3031	2SA626	248	2SB33F	254	2SB117	254	2SB180	238	
2SA495-0	52	2SA546D	242	2SA627	S5005	2SB34	250	2SB117K	254	2SB180A	238	
2SA495A	708	2SA546E	S3031	2SA628	52	2SB37	632	2SB119	230	2SB181	238	
2SA495B	716	2SA546F	242	2SA628A	708	2SB37A	632	2SB119A	232	2SB181A	238	
2SA495D	716	2SA546H	S3031	2SA628AA	716	2SB37B	633	2SB120	250	2SB183	250	
2SA495G	52	2SA547	S3031	2SA628D	51	2SB37C	632	2SB122	232	2SB184	251	
2SA495ORN	52	2SA547A	S3031	2SA628E	52	2SB37E	254	2SB123	232	2SB185	631	
2SA495ORN-G	52	2SA548	715	2SA628F	715	2SB38	250	2SB123A	232	2SB186	633	
2SA495RED	52	2SA548GRN	716	2SA629	57	2SB39	250	2SB126	230	2SB186B	633	
2SA495RED-G	52	2SA548H	715	2SA629B	715	2SB40	254	2SB126F	235	2SB186K	633	
2SA495WHT	52	2SA548ORN	716	2SA633	736	2SB41	230	2SB126V	235	2SB187	632	
2SA495YE7	52	2SA548RED	716	2SA633A	736	2SB42	230/232	2SB127	230	2SB187S	632	
2SA495YEL	708	2SA548YEL	716	2SA634	736	2SB43	631	2SB128	623	2SB188	632	
2SA495YEL-G	708	2SA550	717	2SA634A	736	2SB43A	632	2SB128A	625	2SB189	254	
2SA496	246	2SA550A	715	2SA634L	246	2SB44	250	2SB128V	232	2SB199	254	
2SA496-ORN	246	2SA550AB	716	2SA636	246	2SB46	251	2SB129	623	2SB200	254	
2SA496-RED	246	2SA550AQ	S3031	2SA640	715	2SB47	251	2SB129A	625	2SB200A	629	
2SA496YEL	52	2SA550P	52	2SA640M	715	2SB48	250					

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DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
2SB218	239	2SB324E	254	2SB407ORN	230	2SB503	702	2SC94	S3002	2SC193	53
2SB219	253	2SB324E L	254	2SB408	253	2SB504	S3003	2SC95	S0001	2SC194	53
2SB220	254	2SB324F	630	2SB410	644	2SB507	246	2SC97	S3001	2SC195	53
2SB221	254	2SB324G	254	2SB411	234	2SB508	246	2SC97A	S3001	2SC196	53
2SB221A	254	2SB324H	254	2SB414	642	2SB509	702	2SC98	50	2SC197	53
2SB222	254	2SB324K	254	2SB415	238	2SB511	S3029	2SC99	50	2SC199	713
2SB223	254	2SB324L	254	2SB415A	238	2SB511D	S3029	2SC100	53	2SC200	53
2SB224	629	2SB324M	254	2SB416	253	2SB514	S3031	2SC101	703	2SC201	53
2SB225	629	2SB324V	254	2SB417	253	2SB515	S3031	2SC101A	703	2SC202	713
2SB226	630	2SB326	254	2SB421	239	2SBF1	250	2SC102	S5001	2SC203	50
2SB227	630	2SB327	254	2SB423	254	2SBF1	250	2SC103	50	2SC204	50
2SB228	625	2SB328	254	2SB424	232	2SBF1A	250	2SC103A	250	2SC205	713
2SB229	625	2SB329	254	2SB425	232	2SBF2	254	2SC104	50	2SC206	709
2SB230	625	2SB329K	254	2SB426	230/232	2SB-F5	232	2SC104A	50	2SC210	53
2SB231	644	2SB330	239	2SB427	629	2SBF5	232	2SC105	719	2SC211	53
2SB232	234	2SB332	233	2SB428	629	2SB5131	R0162	2SC106	S3001	2SC212	S0001
2SB233	234	2SB333	233	2SB430	237	2SC11	641	2SC107	S3001	2SC213	S3001
2SB234	234	2SB334	233	2SB431	254	2SC12	53	2SC108	714	2SC214	75
2SB235	233	2SB335	254	2SB432	234	2SC13	641	2SC108A	S3002	2SC215	S3001
2SB236	233	2SB336	254	2SB433	233	2SC14	641	2SC109	53	2SC216	53
2SB237	231	2SB337	232	2SB434	242	2SC15	53	2SC109A	S3001	2SC217	53
2SB237-12A	231	2SB337A	232	2SB435	S3027	2SC15-1	S0007	2SC110	53	2SC218	713
2SB237-12B	231	2SB337B	232	2SB439	250	2SC15-2	S0007	2SC111	53	2SC218A	719
2SB238	238	2SB338	232	2SB440	250	2SC15-3	S0007	2SC112	75	2SC219	243
2SB238-12A	231	2SB339	625	2SB443	636	2SC16	50	2SC113	75	2SC220	53
2SB238-12B	231	2SB340	625	2SB443A	251	2SC16A	50	2SC114	75	2SC221	53
2SB238-12C	231	2SB341	625	2SB443B	251	2SC17	50	2SC115	55	2SC222	S3002
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2SB240	238	2SB342	644	2SB444B	251	2SC19	53	2SC117	S3001	2SC225	S3001
2SB240A	238	2SB343	644	2SB445	642	2SC20	53	2SC118	S3001	2SC226	53
2SB241	239	2SB345	632	2SB447	234	2SC21	247	2SC119	S3001	2SC227	53
2SB241A	239	2SB346	633	2SB448	642	2SC22	S3020	2SC120	53	2SC228	S3002
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2SB242A	238	2SB347	633	2SB449F	230	2SC24	S3021	2SC122	53	2SC230	713
2SB243	238	2SB348	251	2SB449P	230	2SC26	S0004	2SC122D	243	2SC231	53
2SB243A	238	2SB349	251	2SB450	254	2SC27	53	2SC123	53	2SC232	53
2SB244	239	2SB350	250	2SB450A	254	2SC28	53	2SC124	53	2SC233	S3002
2SB245	239	2SB351	231/233	2SB451	238	2SC29	53	2SC125	637	2SC234	S3002
2SB246	230	2SB352	233	2SB452	238	2SC30	53	2SC127	53	2SC235	S3002
2SB247	232	2SB353	233	2SB452A	238	2SC31	53	2SC128	641	2SC236	714
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2SB248A	232	2SB355	642	2SB454	254	2SC32A	713	2SC130	S3001	2SC238	53
2SB249	232	2SB357B	642	2SB455	254	2SC33	50	2SC131	53	2SC239	50
2SB250	230	2SB358	232	2SB457	254	2SC34	641	2SC132	50	2SC240	704
2SB250A	230/232	2SB359	644	2SB457A	254	2SC35	641	2SC133	50	2SC241	247
2SB251	230	2SB360	644	2SB457AC	254	2SC36	641	2SC134	53	2SC242	704
2SB251A	230/232	2SB361	232	2SB458	642	2SC37	53	2SC135	50	2SC243	704
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2SB253	232	2SB365	254	2SB459C	251	2SC39A	56	2SC138	S3001	2SC246	707
2SB253A	625	2SB367	642	2SB459D	251	2SC40	56	2SC138A	S3001	2SC247	713
2SB254	642	2SB367A	642	2SB460	635	2SC41	707	2SC139	S3001	2SC248	713
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2SB256	643	2SB367C	642	2SB462	239	2SC42A	707	2SC147	243	2SC250	732
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2SB259	233	2SB368	642	2SB463BLK	643	2SC44	707	2SC150	53	2SC251A	50
2SB260	231/233	2SB368B	643	2SB463RED	643	2SC45	53	2SC150H	75	2SC252	56
2SB261	253	2SB368H	642	2SB464	234	2SC46	736	2SC150T	75	2SC253	56
2SB262	254	2SB370	640	2SB465	232	2SC47	53	2SC151	75	2SC254	241
2SB263	250	2SB370A	630	2SB466	642	2SC48	713	2SC151H	75	2SC266	56
2SB264	254	2SB370B	254	2SB467	642	2SC49	713	2SC152	S3008	2SC267	56
2SB265	632	2SB370C	630	2SB468	235	2SC50	641	2SC152H	S3008	2SC267A	56
2SB266	250	2SB370V	254	2SB468A	235	2SC51	243	2SC153	713	2SC268	S0007
2SB267	250	2SB371	632	2SB468B	235	2SC52	53	2SC154	713	2SC268A	S0007
2SB268	632	2SB372	238	2SB468C	235	2SC53	53	2SC154C	706	2SC269	56
2SB269	250	2SB373	238	2SB470	251	2SC54	53	2SC154H	713	2SC270	707
2SB270	254	2SB374	238	2SB471	232	2SC55	50	2SC155	50	2SC271	56
2SB271	254	2SB375	234	2SB471A	232	2SC56	50	2SC156	732	2SC272	56
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2SB285	232	2SB380	251	2SB474-4	643	2SC65	712	2SC171	50	2SC283H	729
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2SB292A	629	2SB383	254	2SB475B	254	2SC67	53	2SC174	709	2SC285A	53
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2SB296	644	2SB386	632	2SB477	237	2SC71	641	2SC177	641	2SC288	56
2SB299	254	2SB387	636	2SB478	237	2SC72	641	2SC178	641	2SC288A	56
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2SB302	254	2SB391	230/232	2SB481	642	2SC75	641	2SC181	641	2SC292	S3002
2SB303	632	2SB392	253	2SB481A	642	2SC76	641	2SC182	56	2SC297	S3010
2SB304	254	2SB393	253	2SB481A-W	642	2SC77	641	2SC182Q	56	2SC298	S3002
2SB304A	629	2SB394	253	2SB481D	642	2SC78	641	2SC182V	56	2SC300	56
2SB309	232	2SB395	253	2SB481UVW	642	2SC79	718	2SC183	56	2SC301	56
2SB310	644	2SB396	253	2SB482	632	2SC80	50	2SC183P	56	2SC302	729
2SB311	644	2SB400	254	2SB483	625	2SC81	S5001	2SC183Q	5		

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DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
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2SC324H	54	2SC412	707	2SC5110	714	2SC608T	S3001	2SC696D	729	2SC784ORN	56
2SC341	235	2SC423	53	2SC511R	714	2SC609T	S3001	2SC696E	S3002	2SC784YEL	56
2SC350	55	2SC423E	53	2SC512	714	2SC611	56	2SC696F	243	2SC785	56
2SC350H	50	2SC424	53	2SC5120	714	2SC612	709	2SC696H	S3002	2SC785ORN	56
2SC351	56	2SC425	50	2SC512R	714	2SC613	56	2SC696I	713	2SC785R	53
2SC352	53	2SC426	50	2SC513	S3001	2SC614	S3001	2SC699	S3020	2SC786	709
2SC352A	53	2SC429	56	2SC5130	714	2SC614D	S3001	2SC700	S3001	2SC787	720
2SC353	713	2SC429J	56	2SC513R	714	2SC615	S3001	2SC701	S3001	2SC788	712
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2SC354A	S3001	2SC437	S3010	2SC515A	240	2SC620	53	2SC704	S3007	2SC792	707
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2SC367	53	2SC454	53	2SC520	247	2SC629-31	50	2SC709	56	2SC798	S3020
2SC367G	53	2SC454A	53	2SC520A	704	2SC629-41	50	2SC709B	56	2SC799	S3002
2SC368	55	2SC454B	53	2SC521	247	2SC631	55	2SC709C	56	2SC800	56
2SC369	55	2SC454C	53	2SC521A	247	2SC631A	50	2SC710	56	2SC800	S3001
2SC369BLK	55	2SC454D	54	2SC522	714	2SC632	55	2SC710B	56	2SC803	S3002
2SC369G	55	2SC454L	53	2SC5220	714	2SC632A	736	2SC710C	56	2SC805	713
2SC369G/BLK	725	2SC455	S0004	2SC522R	714	2SC633	56	2SC710D	56	2SC806	740
2SC369G/GRN	719	2SC456	S3001	2SC523	714	2SC633-6	723	2SC710RED	56	2SC806A	740
2SC370	50	2SC458	53	2SC5230	714	2SC633-7	56	2SC711	733	2SC807	740
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2SC371	50	2SC458B	738	2SC524	714	2SC634	53	2SC711D	715	2SC814	53
2SC371B	50	2SC458BC	738	2SC5240	714	2SC634A	736	2SC711E	733	2SC815	736
2SC371G	53	2SC458C	53	2SC524R	714	2SC639	53	2SC711F	733	2SC816	S3001
2SC371-O	50	2SC458D	53	2SC526	712	2SC640	55	2SC712	50	2SC817	714
2SC371ORN	50	2SC458L	53	2SC529A	55	2SC640B	55	2SC712A	56	2SC818	712
2SC372	55	2SC458LG	53	2SC535	55	2SC641H	53	2SC712C	50	2SC821	75
2SC372G	53	2SC458LGB	53	2SC535A	56	2SC644	55	2SC712CD	50	2SC822	S3001
2SC372ORN	55	2SC458LGC	53	2SC535B	56	2SC644FR	55	2SC712D	50	2SC823	719
2SC372YEL	55	2SC458LGD	53	2SC535C	56	2SC644R	55	2SC712DC	50	2SC826	713
2SC373	55	2SC460	53	2SC536	56	2SC644RED	55	2SC712E	56	2SC827	714
2SC373G	53	2SC460A	53	2SC536B	56	2SC644S	55	2SC712W	56	2SC828	55
2SC374	55	2SC460B	53	2SC536C	56	2SC644T	55	2SC713	53	2SC828A	728
2SC374BLK	55	2SC460C	53	2SC536CTV	56	2SC645	56	2SC714	713	2SC828P	55
2SC374V	55	2SC460GB	53	2SC536D	56	2SC645A	56	2SC715	56	2SC828Q	728
2SC375	56	2SC460H	53	2SC536E	56	2SC645B	56	2SC715C	56	2SC828R	728
2SC376	713	2SC461	53	2SC536F	56	2SC645C	56	2SC715D	56	2SC828RED	725
2SC377	729	2SC461A	53	2SC536G	56	2SC645G	720	2SC715E	56	2SC828RS	726
2SC378	729	2SC461B	53	2SC536GK	54	2SC646	247	2SC716	56	2SC828S	726
2SC379	56	2SC461C	53	2SC536GY	56	2SC647	247	2SC717	718	2SC828T	55
2SC380	56	2SC461E	53	2SC537	56	2SC647RED	740	2SC717BLK	56	2SC829	50
2SC380A	56	2SC464	56	2SC537E	723	2SC648H	724	2SC717D	713	2SC829A	732
2SC380AORN	56	2SC465	56	2SC537EF	56	2SC649	53	2SC728	706	2SC829B	50
2SC380ARED	56	2SC466	709	2SC537F	53	2SC650	50	2SC730	S3001	2SC829BYEL	50
2SC380-O	56	2SC468H	53	2SC537F	53	2SC651	S3001	2SC731	S3001	2SC829C	50
2SC380ORN	56	2SC469	56	2SC537G	56	2SC652	75	2SC732	730	2SC829D	726
2SC380RED	56	2SC469Q	56	2SC537GI	723	2SC654	53	2SC732BLN	730	2SC829Y	50
2SC380YEL	56	2SC470	712	2SC538	54	2SC655	709	2SC732GRN	730	2SC830	703
2SC381	50	2SC472	55	2SC538A	738	2SC656	709	2SC732V	730	2SC834L	728
2SC381ORN	50	2SC472YEL	55	2SC538C	738	2SC657	56	2SC733	729	2SC837	719
2SC382	56	2SC475	55	2SC538P	738	2SC658	56	2SC733BLU	729	2SC837K	719
2SC382BLK	56	2SC475K	55	2SC538Q	738	2SC659	50	2SC733GRN	729	2SC837L	719
2SC382BRN	709	2SC476	55	2SC538R	54	2SC660	718	2SC733YEL	719	2SC837M	719
2SC382G	56	2SC477	723	2SC538RED	54	2SC661	718	2SC734	713	2SC838	728
2SC382R	56	2SC478	729	2SC538S	54	2SC662	56	2SC734GRN	713	2SC838A	718
2SC382RED	709	2SC478D	729	2SC539	55	2SC663	709	2SC734ORN	713	2SC838E	728
2SC382V	719	2SC479H	736	2SC539R	55	2SC664	704	2SC734P	713	2SC838L	728
2SC382W	719	2SC481	S3001	2SC539S	55	2SC665	704	2SC734YEL	713	2SC838M	728
2SC383	713	2SC482	S3001	2SC540	56	2SC668	56	2SC735	53	2SC839	728
2SC384	56	2SC484	714	2SC541	S3001	2SC668C	56	2SC735ORN	56	2SC839L	728
2SC384ORN	56	2SC485	713	2SC544	56	2SC668D	720	2SC735YEL	53	2SC839M	728
2SC385	56	2SC486	713	2SC544D	56	2SC668E	720	2SC736	704	2SC840	241
2SC385A	56	2SC486-Y	713	2SC545	56	2SC668F	720	2SC737	S3005	2SC840A	240
2SC386	56	2SC487	241	2SC545C	56	2SC674	56	2SC738	50	2SC840A(C)	241
2SC386A	732	2SC488	241	2SC545D	56	2SC674B	56	2SC739	50	2SC840P	241
2SC387	56	2SC489	241	2SC547	S3001	2SC674C	56	2SC740	56	2SC840Q	241
2SC387A	56	2SC490	703	2SC548	S3008	2SC674D	56	2SC741	75	2SC844	75
2SC387G	56	2SC491	703	2SC554	75	2SC674E	56	2SC752	50	2SC845	S3001
2SC388	56	2SC491 YEL	240	2SC555	S3008	2SC674F	56	2SC752G	53	2SC847	50
2SC388A	734	2SC492	S5004	2SC556	75	2SC674G	56	2SC761	709	2SC848	50
2SC389	709	2SC493	247	2SC558	707	2SC679H	50	2SC762	709	2SC849	50
2SC391	709	2SC493RED	247	2SC559	53	2SC680	241	2SC763	732	2SC850	736
2SC392	709	2SC493YEL	247	2SC560	714	2SC680A	241	2SC763B	732	2SC851	247
2SC394	53	2SC494	247	2SC561	50	2SC681	707	2SC763C	732	2SC852	719
2SC394ORN	53	2SC494RED	247	2SC562	709	2SC681A	707	2SC763D	707	2SC853	736
2SC394RED	53	2SC494YEL	247	2SC563	709	2SC682	709	2SC765	709	2SC854	S3008
2SC394YEL	53	2SC495	245	2SC563A	719	2SC682A	709	2SC766	704	2SC855	S3008
2SC395	50	2SC495ORN	245	2SC566	S3001	2SC682B	718	2SC767	707	2SC856	712
2SC395A	50	2SC495P	245	2SC567	709	2SC683	709	2SC768	247	2SC856-02	712
2SC396	55	2SC495Q	245	2SC568	709	2SC683A	56	2SC769	704	2SC857	738
2SC397	709	2SC495RED	245	2SC571	S3001	2SC683B	56	2SC770	707	2SC858	55
2SC398	709	2SC496	245	2SC580	714	2SC683V	56	2SC771	707	2SC859	55
2SC399	709	2SC496-O	245	2SC582	240	2SC684	56	2SC772	56	2SC859FG	55
2SC400	50	2SC496ORN	245	2SC582E	240	2SC684BLK	56	2SC772B	720	2SC860	709
2SC401	724	2SC496-R	245	2SC586	707	2SC684ORN	720	2SC772C	56	2SC864	734
2SC402	724	2SC496YEL	245	2SC587	728	2SC685A	240	2SC772CU	50	2SC866	S3001
2SC402A	724	2SC497	243	2SC587A	728	2SC685ORN	240	2SC772CX	50	2SC867	241
2SC402B	729	2SC498	S3001	2SC588	50	2SC685P	240	2SC772E	56	2SC868	712
2SC403	723	2SC499	713	2SC589	712	2SC685YEL	240	2SC773	736	2SC869	712
2SC403A	723	2SC499RED	713	2SC590	714	2SC686	712	2SC774	S3001	2SC870	55
2SC403A3	723	2SC499YEL	713	2SC591	714	2SC687	707	2SC775	S3001	2SC870BLU	55
2SC403A4	723	2SC500	713	2SC593	S0004	2SC689H	50	2SC776	S3001	2SC870D	55
2SC403A5	723	2SC501	S3008	2SC594	53	2SC691	S3005	2SC777	S3002	2SC870F	55
2SC403B	729	2SC502	S3001	2SC595	56	2SC692	S3005	2SC778	S3002	2SC871	55
2SC403C	723	2SC503	53	2SC596	S3001	2SC693	55	2SC780	713	2SC871BLU	55
2SC404	724	2SC504	53	2SC597	S3001	2SC693E	55	2SC780A/G	712	2SC871E	55
2SC405	641	2SC507	712	2SC599	S3006	2SC693F					

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DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
2SC875F	714	2SC1001	S3001	2SC1226A	245	2SD67	707	2SD172	247	2SD334A	707
2SC876	736	2SC1003	701	2SC1235	240	2SD68	247	2SD173	704	2SD335	S5000
2SC876E	736	2SC1006	738	2SC1239	S3001	2SD69	707	2SD174	247	2SDF1	641
2SC876F	736	2SC1010	738	2SC1254	709	2SD70	247	2SD175	704	2SD2F2	247
2SC876TV	736	2SC1012A	706	2SC1256	S3001	2SD71	241	2SD176	704	2SDF45	248
2SC876TVE	736	2SC1013	S3020	2SC1257	S3005	2SD72	641	2SD177	704	2SE4002	641
2SC876TVF	736	2SC1014	S3020	2SC1258	S3006	2SD72-2C	641	2SD178	641	2SF656	R1002
2SC881	713	2SC1014B	S3020	2SC1259	S3007	2SD72-3C	641	2SH20	641	2SH20	310
2SC890	75	2SC1014CD	S3020	2SC1285	728	2SD72-4C	641	2SD180	704	2SH22	310
2SC891	S3005	2SC1015	S3007	2SC1293	719	2SD72A	641	2SD181	707	2SJ2A	R0053
2SC892	S3006	2SC1016	245	2SC1297	S3007	2SD728	641	2SD182	243	2SJ4A	R0054
2SC893	714	2SC1017	S3020	2SC1298	S3007	2SD72C	641	2SD183	714	2SJ8A	R0056
2SC894	50	2SC1018	S3020	2SC1317	S0003	2SC72RED	641	2SD184	243	2SJ11	803
2SC896	713	2SC1023	709	2SC1318	736	2SD73	704	2SD185	714	2SJ12	803
2SC897	707	2SC1024	703	2SC1320K	719	2SD74	707	2SD186	641	2SJ15	F1035
2SC898	707	2SC1024-D2	703	2SC1333	S3005	2SD75	641	2SD187	641	2SD187	F1035
2SC899	729	2SC1024E	703	2SC1335	727	2SD75A	641	2SD188	704	2SK17	801
2SC900	725	2SC1025	241	2SC1335D	727	2SD75AH	641	2SD189	704	2SK19	802
2SC900F	725	2SC1026	S0004	2SC1335E	727	2SD75H	641	2SD189A	704	2SK19BLK	802
2SC901	707	2SC1030	707	2SC1342C	53	2SD77	641	2SD191	641	2SK19GC	802
2SC901A	707	2SC1032	721	2SC1346	75	2SD77A	641	2SD192	641	2SK19GRN	802
2SC903	53	2SC1033	712	2SC1347	S3001	2SD77AH	641	2SD193	641	2SK19VEL	802
2SC904	736	2SC1033A	712	2SC1364	736	2SD77B	641	2SD194	641	2SK23	802
2SC905	736	2SC1035	56	2SC1383	S3001	2SD77C	641	2SD195	641	2SK24	801
2SC908	S3001	2SC1036	56	2SC1384	S3001	2SD77H	641	2SD196	S5004	2SK24C	F0021
2SC912	56	2SC1038	S3005	2SC1402	707	2SD78	S3002	2SD196A	S5004	2SK24E	F0021
2SC913	53	2SC1039	S3005	2SC1403	707	2SD80	247	2SD198	707	2SK24F	F0021
2SC916	S3002	2SC1041	S3005	2SC1406	S3024	2SD81	247	2SD198H	707	2SK24G	F0021
2SC917	S0007	2SC1042	S3005	2SC1407	S3020	2SD82	704	2SD198S	247	2SK24G	F0021
2SC918	720	2SC1045	740	2SC1444	703	2SD83	707	2SD198V	707	2SK25	802
2SC920	734	2SC1045B	740	2SC1445	241	2SD84	707	2SD199	740	2SK30	801
2SC920Q	53	2SC1046	740	2SC5100	714	2SD88	707	2SD201	704	2SK30Y	801
2SC920R	734	2SC1047	56	2SC5110	714	2SD88A	707	2SD202	704	2SK33	802
2SC921	718	2SC1047B	56	2SC5220	714	2SD90	243	2SD203	707	2SK34	802
2SC921L	718	2SC1048	712	2SCF1	732	2SD91	703	2SD204	243	2SK34B	F0021
2SC923	725	2SC1048C	712	2SCF2	728	2SD92	241	2SD204L	243	2SK34C	F0021
2SC924	50	2SC1048D	712	2SCF-2	53	2SD93	241	2SD205	243	2SK34D	F0021
2SC924F	50	2SC1050	740	2SCF5	50	2SD94	241	2SD205L	243	2SK35	802
2SC924M	50	2SC1051	707	2SC-F5	736	2SD96	641	2SD205M	243	2SK35GRN	802
2SC925	738	2SC1056	706	2SCF6	S3001	2SD100	641	2SD205N	243	2SK37	801
2SC925M	738	2SC1059	240	2SC-F6	S3001	2SD100A	641	2SD211	247	2SK37H	F0021
2SC926	713	2SC1060	S5003	2SC-F8	S3001	2SD102	241	2SD212	704	2SK41	802
2SC927	56	2SC1060B	S5003	2SC-F8	S3001	2SD104	641	2SD213	704	2SK41C	F0021
2SC927C	56	2SC1061	S5003	2SCF11	56	2SD105	641	2SD214	707	2SK41D	F0021
2SC927D	56	2SC1061B	245	2SC-F11	56	2SD107	S9140	2SD217	704	2SK41E	F0021
2SC927E	56	2SC1079	707	2SC-F14	53	2SD108	S9140	2SD218	707	2SK41F	F0021
2SC928	56	2SC1080	704	2SD11	641	2SD110	707	2SD219	243	2SM71	R1751
2SC929	56	2SC1081	S3006	2SD12	247	2SD111	704	2SD220	243	2SM72	R1751
2SC929C	56	2SC1088	S3021	2SD15	247	2SD113	S7000	2SD221	714	2SM73	R1752
2SC929D	56	2SC1089	S3021	2SD16	704	2SD114	S7000	2SD222	243	2SM74	R1752
2SC929DU	50	2SC1096	S5003	2SD17	707	2SD118	707	2SD223	243	2SM75	R1723
2SC930	56	2SC1096L	245	2SD18	707	2SD188LU	707	2SD224	714	2SM79	R1723
2SC930C	56	2SC1098	245	2SD19	641	2SD188RED	707	2SD226	703	2T11	254
2SC930D	56	2SC1102	240	2SD20	641	2SD189YEL	707	2SD226A	703	2T12	254
2SC930E	56	2SC1103L	S3021	2SD21	641	2SD119	704	2SD226AORN	240	2T13	253
2SC930EV	56	2SC1104	240	2SD22	641	2SD1198L	704	2SD226AP	240	2T14	254
2SC931	245	2SC1105	240	2SD23	641	2SD119R	704	2SD226B	703	2T15	254
2SC932	245	2SC1106	707	2SD24	240	2SD119Y	704	2SD226Q	703	2T16	254
2SC932E	245	2SC1111	704	2SD24C	240	2SD120	243	2SD227	50	2T17	254
2SC933	75	2SC1112	704	2SD24D	240	2SD121	714	2SD227LF	729	2T20	2
2SC933C	75	2SC1115	704	2SD24E	240	2SD122	243	2SD228	50	2T21	254
2SC933D	75	2SC1116	704	2SD24K	240	2SD123	S3002	2SD234	245	2T22	254
2SC933E	75	2SC1117	709	2SD24KC	240	2SD124	247	2SD234O	245	2T23	254
2SC933F	75	2SC1120	S3006	2SD24KD	240	2SD124AH	247	2SD234R	245	2T24	254
2SC934	S0004	2SC1121	S3007	2SD24KE	240	2SD125	704	2SD234YEL	701	2T25	254
2SC934F	243	2SC1122	S3007	2SD25	641	2SD125AH	704	2SD235	701	2T26	254
2SC935	707	2SC1123	720	2SD26	247	2SD126H	707	2SD235O	245	2T40	50
2SC936	740	2SC1124	714	2SD26A	247	2SD127	641	2SD235ORN	245	2T41	50
2SC937	740	2SC1126	56	2SD26B	704	2SD127A	641	2SD235R	245	2T42	50
2SC937A	740	2SC1127	S3021	2SD26C	707	2SD128	641	2SD235YEL	701	2T43	50
2SC939	707	2SC1128	56	2SD28	703	2SD128A	641	2SD236	703	2T44	50
2SC939L	740	2SC1129	56	2SD29	703	2SD129	241	2SD237	703	2T51	641
2SC940	707	2SC1152	704	2SD30	641	2SD130	703	2SD238	241	2T52	641
2SC941	56	2SC1152F	704	2SD30N	641	2SD130BLK	703	2SD254	S5000	2T53	641
2SC943	736	2SC1154	740	2SD30-O	641	2SD130YEL	703	2SD255	703	2T54	641
2SC944	729	2SC1155	S3020	2SD30ORN	641	2SD132	704	2SD256	703	2T55	641
2SC945	728	2SC1156	714	2SD31	641	2SD136	706	2SD257	241	2T56	641
2SC945M	243	2SC1157	714	2SD32	641	2SD137	706	2SD258	241	2T57	641
2SC945Q	728	2SC1158	719	2SD33	641	2SD141	701	2SD259	241	2T58	641
2SC945R	53	2SC1159	719	2SD34	641	2SD142	701	2SD261	S3023	2T63	641
2SC945RED	728	2SC1160	S3021	2SD35	641	2SD143	703	2SD261R	243	2T64	641
2SC945S	728	2SC1160K	240	2SD36	641	2SD144	241	2SD261W	53	2T65	641
2SC947	709	2SC1161	S3021	2SD37	641	2SD145	241	2SD287	707	2T66	641
2SC948	709	2SC1162	S5003	2SD38	641	2SD146	701	2SD288	S5000	2T67	641
2SC957	709	2SC1165	S3008	2SD41	247	2SD147	245	2SD289	S5000	2T69	641
2SC959	714	2SC1166	713	2SD43	641	2SD150	703	2SD290	703	2T71	641
2SC960	S3021	2SC1168	240	2SD43A	641	2SD151	704	2SD291	703	2T72	641
2SC966	243	2SC1173	S3010	2SD44	641	2SD152	241	2SD292	703	2T73	641
2SC968	243	2SC1173C	245	2SD45	707	2SD152L	241	2SD297	241	2T75	641
2SC968YEL	243	2SC1173R	245	2SD46	707	2SD152M	241	2SD312	740	2T76	641
2SC971	243	2SC1175	S0004	2SD47	704	2SD154	703	2SD313	245	2T77	641
2SC979	713	2SC1180	709	2SD48	S3002	2SD154L	703	2SD314	245	2T78	641
2SC980	713	2SC1182	719	2SD49	S5000	2SD155	703	2SD315	703	2T83	250
2SC980A/G	713	2SC1182B	719	2SD50	704	2SD155H	703	2SD316	S5004	2T85	641
2SC983ORN	712	2SC1182C	719	2SD51	704	2SD155K	703	2SD317	245	2T201	3
2SC983RED	712	2SC1182D	719	2SD51A	704	2SD156	240	2SD317A	S5000	2T202	53
2SC983YEL	712	2SC1185	704	2SD53	704	2SD157	240	2SD318	245	2T203	3
2SC984	736	2SC1209C	243	2SD54	S5004	2SD157B	240	2SD318A	S5000	2T204	3
2SC984B	736	2SC1211	55	2SD55	S7000	2SD158	240	2SD319	S7000	2T205A	1
2SC984C	736	2SC1212	S5003	2SD55A	S7000	2SD159	240	2SD320	740	2T230	254
2SC990	S3006	2SC1212A	S5000	2SD57	701	2SD162	641	2SD321	707	2T231	254
2SC991	53	2SC1213	S0004	2SD58	245	2SD163	247	2SD322	704	2T311	254
2SC992	53	2SC1213A	S0004	2SD59	704	2SD164	707	2SD323	707	2T312	254
2SC994	75	2SC1213B	243	2SD60	707	2SD165	704	2SD324	244	2T313	254
2SC995	S3021	2SC1213C	243	2SD61	641	2SD166	707	2SD325	245	2T314	254
2SC996	244	2SC1213D	243	2SD62	641	2SD167	641	2SD325D	245	2T315	254
2SC997	56	2SC1214	S								

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DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
2T402	53	3A258	R0055	3L4-6013-5	246	3T23.9C	Z2502	3VR82B	Z2542	4AF2PLH	R0222
2T403	50	3A300	R0094	3L4-6013-6	246	3T23.9D	Z2502	3VR100	Z2545	4AF2PLHR	R0222R
2T404	50	3A500	R0096	3MC	636	3T24.7A	Z2504	3VR100A	Z2545	4AF2PLV	R0222
2T502	R0052	3A1510	R0056	3MS5	R0050	3T24.7B	Z2504	3VR100B	Z2545	4AF2PLVR	R0222R
2T503	R0052	3A2510	R0056	3MS10	R0052	3T24.7C	Z2504	3VR120	Z2547	4AF2R	R0222R
2T504	R0053	3AF2	R0092	3MS20	R0052	3T24.7D	Z2504	3VR120A	Z2547	4AF05	R0220
2T505	R0054	3AF4	R0094	3MS30	R0053	3T25.6A	Z2506	3VR120B	Z2547	4AF05LH	R0220
2T506	R0054	3AF8	R0096	3MS40	R0053	3T25.6B	Z2506	3Z3.9T10	Z2507	4AF05LHR	R0220R
2T507	R0055	3AS1	R0097	3MS50	R0054	3T25.6C	Z2506	3Z3.9T20	Z2507	4AF05LV	R0220
			R0055	3N204	F2004	3T25.6D	Z2502	3Z4.7T5	Z3502	4AF05LVR	R0220R
2T508	R0055	3AS2	R0050	3R7.5	Z2510	3T26.2	Z2508	3Z4.7T10	Z3502	4AF05PLH	R0220
2T509	R0056	3BS1	R0052	3R7.5A	Z2510	3T26.2A	Z2508	3Z4.7T20	Z3502	4AF05PLHR	R0220R
2T510	R0056	3BS2	R0052	3R7.5B	Z2510	3T26.2B	Z2508	3Z5.6T5	Z3504	4AF05PPF	R0220
2T681	641	3C15	R0132	3R9.1	Z2513	3T26.2C	Z2508	3Z5.6T10	Z3504	4AF05PPFR	R0220R
2T682	641	3C20	R0162	3R9.1A	Z2513	3T26.2D	Z2508	3Z5.6T20	Z3504	4AF05R	R0220R
2T918	55	3C30	R0134	3R9.1B	Z2513	3T27.5	Z2510	3Z7.5T5	Z3507	4C28	53
2T2708	55	3C60	R0136	3R12	Z2516	3T27.5A	Z2510	3Z7.5T10	Z3507	4C29	53
2T2857	55	3C70	R0137	3R12A	Z2516	3T27.5B	Z2510	3Z7.5T20	Z3507	4C30	53
2T3011	230/232	3C80	R0137	3R12B	Z2516	3T27.5C	Z2510	3Z9.1T5	Z3511	4C31	53
2T3021	232	3C90	R0138	3R15	Z2519	3T27.5D	Z2510	3Z9.1T10	Z3511	4C43	53
2T3022	232	3C100	R0138	3R15A	Z2519	3T29.1	Z2513	3Z9.1T20	Z3511	4D4	R0053
2T3030	230/232	3CC11	R0162	3R15B	Z2519	3T29.1A	Z2513	3Z10T5	Z3512	4D6	R0054
2T3031	232	3CS1	R0052	3R18	Z2522	3T29.1B	Z2513	3Z10T10	Z3512	4D20	53
2T3032	232	3CS2	R0052	3R18A	Z2522	3T29.1C	Z2513	3Z10T20	Z3512	4D21	53
2T3033	232	3DC11	R0162	3R18B	Z2522	3T29.1D	Z2513	3Z12	Z2516	4D22	53
2T3041	232	3DS1	R0052	3R22	Z2525	3T210	Z2514	3Z12A	Z2516	4D24	53
2T3042	232	3DS2	R0052	3R22A	Z2525	3T210A	Z2514	3Z12B	Z2516	4D25	53
2T3043	232	3E1	R0091	3R22B	Z2525	3T210B	Z2514	3Z12T5	Z3514	4D26	53
2V362	254	3E2	R0092	3R27	Z2528	3T210C	Z2514	3Z12T10	Z3514	4G8	R0053
2V363	253	3E4	R0094	3R27A	Z2528	3T210D	Z2514	3Z12T20	Z3514	4G132	R0162
2V464	253	3E6	R0096	3R27B	Z2528	3T212	Z2516	3Z15	Z2519	4G162	R0162
2V465	253	3E8	R0097	3R33	Z2531	3T212A	Z2516	3Z15A	Z2519	4G232	R0162
2V466	254	3E05	R0090	3R33A	Z2531	3T212B	Z2516	3Z15B	Z2519	4G262	R0162
2V467	254	3E10	R0098	3R33B	Z2531	3T212C	Z2526	3Z15T5	Z3516	4G1122	R0162
2V482	253	3ES1	R0053	3R56	Z2537	3T212D	Z2516	3Z15T10	Z3516	4G2122	R0162
2V483	254	3ES2	R0053	3R56A	Z2537	3T215	Z2519	3Z15T20	Z3516	4JA4DR700	R0053
2V484	254	3F5	R0130	3R56B	Z2537	3T215A	Z2519	3Z18	Z2522	4JA6MR700	R0054
2V485	636	3F5D	R0130	3R82	Z2542	3T215B	Z2519	3Z18A	Z2522	4JA11B X4	R0132
2V486	254	3F10	R0131	3R82A	Z2542	3T215C	Z2519	3Z18B	Z2522	4JA16MR700M	R0054
2V559	636	3F10D	R0131	3R82B	Z2542	3T215D	Z2519	3Z18T5	Z3518	4JA211A	R0052
2V560	636	3F20	R0132	3R100	Z2545	3T218	Z2522	3Z18T10	Z3518	4JD381	641
2V561	636	3F20D	R0132	3R100A	Z2545	3T218A	Z2522	3Z18T20	Z3518	4JX1A520B	254
2V562	636	3F20-D	R0162	3R100B	Z2545	3T218B	Z2522	3Z22T5	Z2525	4JX1A520C	254
2V563	636	3F20D-C	R0092	3R120	Z2547	3T218C	Z2522	3Z22T10	Z2525	4JX1A520D	253
2V631	254	3F30	R0134	3R120A	Z2547	3T218D	Z2522	3Z22T20	Z2525	4JX1A520E	253
2V632	254	3F40	R0134	3R120B	Z2547	3T222	Z2525	3Z27	Z2528	4JX1A813	2
2V633	253	3F40D	R0134	3RC2	R1241	3T222A	Z2525	3Z27A	Z2528	4JX1C850	254
2VR5.6	Z2506	3F50	R0136	3RC5	R1241	3T222B	Z2525	3Z27B	Z2528	4JX1C850A	253
2VR5.6A	Z2506	3F60	R0136	3RC5A	R1241	3T222C	Z2525	3Z27T5	Z3522	4JX1E821	253
2VR5.6B	Z2506	3F60D	R0136	3RC10	R1243	3T222D	Z2525	3Z27T10	Z3522	4JX1E850	253
2VR6.2	Z2508	3F80	R0137	3RC10A	R1243	3T233	Z2531	3Z27T20	Z3522	4JX2A60	253
2VR6.2A	Z2508	3F80D	R0137	3RC15	R1243	3T233A	Z2531	3Z33	Z2531	4JX2A801	641
2VR6.2B	Z2508	3F100	R0138	3RC20	R1243	3T233B	Z2531	3Z33A	Z2531	4JX8D404	232
2VR7.5	Z2510	3F100D	R0138	3RC20A	R1243	3T233C	Z2531	3Z33B	Z2531	4JX16A567	53
2VR7.5A	Z2510	3FS1	R0053	3S1E	R0091	3T233D	Z2531	3Z33T5	Z3524	4JX16A667/G	55
2VR7.5B	Z2510	3FS2	R0053	3S2E	R0092	3T256	Z2537	3Z33T10	Z3524	4JX16A667/O	50
2VR9.1	Z2513	3G8	R0053	3S4E	R0094	3T256A	Z2537	4.46	55	4JX16A667/R	50
2VR9.1A	Z2513	3G152	R0052	3S6E	R0096	3T256B	Z2537	4.47	56	4JX16A667/Y	54
2VR9.1B	Z2513	3G154	R0053	3S05E	R0090	3T256C	Z2537	4.48	643	4JX16A668/G	54
2VR10	Z2514	3G156	R0054	3S14	R0104	3T256D	Z2537	4.005	C6055L	4JX16A668/O	54
2VR10A	Z2514	3G158	R0055	3S004	53	3T2B2	Z2542	4.006	C6058P	4JX16A668/Y	54
2VR10B	Z2514	3G252	R0052	3S8347	251	3T2B2A	Z2542	4.009	595	4JX16A669/G	54
2VR15	Z2519	3G254	R0053	3SK22	F2005	3T2B2B	Z2542	4.142	643	4JX16A669/Y	54
2VR15A	Z2519	3G256	R0054	3SK32	F2004	3T2B2C	Z2542	4.279	639	4JX16B670/G	54
2VR15B	Z2519	3G258	R0055	3SK39	F2004	3T2B2D	Z2542	4.280	638	4JX16B670/R	50
2VR18	Z2522	3G1510	R0056	3SK39P	F2004	3T210	Z2545	4.283	245	4JX16B670/Y	50
2VR18A	Z2522	3G2510	R0056	3SM4	R0094	3T2100A	Z2545	4.397	243	4T501	R0052
2VR18B	Z2522	3GS1	R0054	3T7.5	Z3507	3T2100B	Z2545	4.398	736	4T502	R0052
2VR22	Z2525	3GS2	R0054	3T7.5A	Z3507	3T2100C	Z2545	4.399	56	4T503	R0053
2VR22A	Z2525	3L4-2001-1	135	3T7.5B	Z3507	3T2100D	Z2545	4.400	56	4T504	R0053
2VR22B	Z2525	3L4-2001-3	R0602	3T9.1	Z3511	3T2120	Z2547	4.432	3	4T505	R0054
2VR27	Z2528	3L4-2001-4	R0600	3T9.1A	Z3511	3T2120A	Z2547	4.433	56	4T506	R0054
2VR27A	Z2528	3L4-2001-8	R0054	3T9.1B	Z3511	3T2120B	Z2547	4.434	56	4T507	R0055
2VR27B	Z2528	3L4-3001-1	R0602	3T27	Z2528	3T2120C	Z2547	4.435	230	4T508	R0055
2VR33	Z2531	3L4-3001-5	R0053	3T27A	Z2528	3T2120D	Z2547	4.2020-03200	R0054	4T509	R0056
2VR33A	Z2531	3L4-3001-7	R0602	3T27B	Z2528	3VR5.6	Z2502	4.2020-03500	134	4T510	R0056
2VR33B	Z2531	3L4-3503-1	R2503	3T27C	Z2528	3VR5.6A	Z2506	4.2020-03900	R0055	5.8	738
2VR56	Z2537	3L4-3505-1	Z0411	3T27D	Z2528	3VR5.6B	Z2506	4.2020-05200	R0052	5A1	R0052
2VR56A	Z2537	3L4-3505-2	Z0409	3T33	Z3524	3VR7.5	Z2510	4.2020-05400	R9001	5A2	R0052
2VR56B	Z2537	3L4-3505-3	Z0410	3T33A	Z3524	3VR7.5A	Z2510	4.2020-05800	R0602	5A3	R0053
2VR82	Z2542	3L4-3505-4	Z0414	3T33B	Z3524	3VR7.5B	Z2510	4.2020-06100	R0602	5A4	R0053
2VR82A	Z2542	3L4-6001-01	247	3T56	Z3530	3VR9.1	Z2513	4.2020-06200	R0600	5A4D	R0053
2VR82B	Z2542	3L4-6004	701	3T56A	Z3530	3VR9.1A	Z2513	4.2020-06400	R0602	5A4D-C	R0053
2VR100	Z2545	3L4-6005-1	245	3T56B	Z3530	3VR9.1B	Z2513	4.2020-06600	Z0416	5A5	R0054
2VR100A	Z2545	3L4-6005-3	245	3T82	Z3534	3VR10	Z2514	4.2020-06700	R0052	5A6	R0054
2VR100B	Z2545	3L4-6007-1	54	3T82A	Z3534	3VR10A	Z2514	4.2020-08600	134	5A6D	R0054
2VR120	Z2547	3L4-6007-2	54	3T82B	Z3534	3VR10B	Z2514	4.2021-04170	R0846	5A6D-C	R0054
2VR120A	Z2547	3L4-6007-3	54	3T100	Z3536	3VR12	Z2516	4.2021-04770	254	5A8	R0055
2VR120B	Z2547	3L4-6007-4	243	3T100A	Z3536	3VR12A	Z2516	4.2021-07470	R0602	5A8D	R0055
2W3A	R0053	3L4-6007-10	718	3T100B	Z3536	3VR12B	Z2516	4A132	R0162	5A8D-C	R0055
2W4A	R0054	3L4-6007-11	718	3T501	R0052	3VR15	Z2519	4A162	R0162	5A10	R0056
2W5A	R0054	3L4-6007-12	718	3T502	R0052	3VR15A	Z2519	4A232	R0162	5A10D	R0056
2W6A	R0055	3L4-6007-13	718	3T503	R0053	3VR15B	Z2519	4A262	R0162	5A10D-C	R0056
2W7A	R0055	3L4-6007-14	718	3T504	R0053	3VR18	Z2522	4A1122	R0162	5B-2-H5W	R0054
2W9A	R0056	3L4-6007-19	718	3T505	R0054	3VR18A	Z2522	4A2122	R0162	5B-15H	R0054
2WMT2	R0162	3L4-6007-20	718	3T506	R0054	3VR18B	Z2522	4AF1	R0222	5D1	R0052
2WMT4	R0164	3L4-6007-21	718	3T507	R0055	3VR22	Z2525	4AF1LH	R0222	5E1	R0052
2WMT6	R0166	3L4-6007-22	718	3T508	R0055	3VR22A	Z2525	4AF1LHR	R0222R	5E2	R0052
2XAA11	135	3L4-6007-23	718	3T509	R0056	3VR22B	Z2525	4AF1LV	R0222	5E4	R0053
2XAA112	134	3L4-6010-4	242	3T510	R0056	3VR27	Z2528	4AF1LVR	R0222R	5E5	R0054
2XAA113											

HEP Semiconductor Replacement Cross-References

DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
5J3P	R0130	6C70	R0137	8L201	232	09-301052	232	10A	2	10PZ1BD	Z3518
5MA2	R0052	6C80	R0138	8L201B	232	09-301054	254	10A590B	R0052	10PZ22	Z3520
5MA4	R0053	6C90	R0138	8L201R	232	09-302004	53	10AG2	R0052	10PZ22A	Z3520
5MA5	R0054	6C100	R0138	8L201V	230/232	09-302006	56	10AG4	R0053	10PZ22B	Z3520
5MAB	R0054	6CC11	R0162	BP	2	09-302007	56	10AG6	R0054	10PZ22C	Z3520
5MAB	R0055	6D122	253	8P73BLU	701	09-302009	720	10AG8	R0055	10PZ22D	Z3520
5MA10	R0056	6D122R	253	8P73GRN	701	09-302010	56	10AG10	R0056	10PZ27	Z3522
5MS5	R0050	6D122V	253	8P73YEL	701	09-302012	56	10AS	R0052	10PZ27A	Z3522
5MS10	R0052	6DC11	R0162	8P202	642	09-302014	50	10AT2	R0052	10PZ27B	Z3522
5MS20	R0052	6F5	R0130	8P404	232	09-302015	S3001	10AT4	R0053	10PZ27C	Z3522
5MS30	R0053	6F5D	R0130	8P404M-1	230	09-302016	56	10AT6	R0054	10PZ27D	Z3522
5MS40	R0053	6F10	R0131	8P404ORN	230	09-302020	53	10AT8	R0055	10PZ33	Z3524
5MS50	R0054	6F10D	R0131	8P404R	232	09-302030	729	10AT10	R0056	10PZ33A	Z3524
5RC2	R1241	6F15	R0132	8P404T	232	09-302032	56	10B	R0052	10PZ33B	Z3524
5RC2A	R1241	6F20	R0162	8P404V	232	09-302033	50	10B1	R0091	10PZ33C	Z3524
5RC5	R1241	6F20D	R0132	8P-505	643	09-302034	55	10B2	R0092	10PZ33D	Z3524
5RC5A	R1241	6F20-D	R0162	8P880B	233	09-302037	56	10B-2N1W	R0050	10PZ56	Z3530
5RC10	R1243	6F30	R0134	9D12	R0050	09-302038	55	10B3	R0094	10PZ56A	Z3530
5RC10A	R1243	6F40	R0134	9GR2	728	09-302039	55	10B4	R0094	10PZ56B	Z3530
5RC15	R1243	6F40D	R0134	9LR2	R9001	09-302040	56	10B-4-C4	R0096	10PZ56C	Z3530
5RC15A	R1243	6F60	R0136	9LR2-1	R9001	09-302044	721	10B5	R0096	10PZ56D	Z3530
5RC20	R1243	6F60D	R0136	9LR2-24	R9001	09-302045	243	10B6	R0096	10PZ82	Z3534
5RC20A	R1243	6F70A	R0137	9LR2-S	R9001	09-302046	S3020	10B8	R0097	10PZ82A	Z3534
5RCL2	R1241	6F70B	R0137	9LR2-S1	R9001	09-302050	S3002	10B10	R0098	10PZ82B	Z3534
5RCL5	R1241	6F80	R0137	9LR21	R9001	09-302051	S3002	10B551-2	56	10PZ82C	Z3534
5RCL10	R1243	6F80A	R0137	9TR1	732	09-302053	56	10B551-3	56	10PZ82D	Z3534
5RCL15	R1243	6F80B	R0137	9TR2	728	09-302054	50	10B553-2	56	10PZ100	Z3536
5RCL20	R1243	6F80D	R0137	9TR3	56	09-302062	736	10B553-3	56	10PZ100A	Z3536
6-4	737	6F90A	R0138	9TR4	715	09-302072	709	10B555-2	56	10PZ100B	Z3536
6-9	730	6F90B	R0138	9TR5	728	09-302074	55	10B555-3	56	10PZ100C	Z3536
6-02	53	6F100	R0138	9TR6	S3001	09-302075	53	10B556-2	56	10PZ100D	Z3536
6-04GRN	730	6F100A	R0138	9TR7	S3002	09-302078	736	10B556-3	56	10R1B	R0052
6-04ORN	728	6F100B	R0138	9TR8	S3001	09-302079	S0004	10C	R0052	10R2B	R0052
6-04S1	54	6F100D	R0138	9TR9	703	09-302080	S3020	10C1	R0052	10R3B	R0053
6-04S2	54	6G8	R0054	9TR10	50	09-302081	S3001	10C2	R0052	10R4B	R0053
6-05	728	6GC1	R9001	9TR11	S3001	09-302082	S3001	10C3	R0053	10R5B	R0054
6-05YEL	728	6GX1	R0002	01-2406-1	R0091	09-302083	245	10C4	R0053	10R6B	R0054
6-11	728	6MC	2	01F-SL8020	C6001	09-302092	728	10C4D	R0053	10R7B	R0055
6-13	254	6X97047A02	254	02P1B	715	09-302101	55	10C5	R0054	10R9B	R0056
6-19	737	6X97047A11	R0050	02Z6.2A	Z0408	09-302102	S3020	10C6	R0054	10R10B	R0056
6-30	737	6X97047A12	R0050	02Z6.8A	Z0215	09-302106	53	10C8	R0055	10RC5A	R1301
6-31	715	6.2SR1	Z0214	02Z28.2A	Z0217	09-302122	247	10C05	R0050	10RC10A	R1304
6-32	53	6.2SR1A	Z0214	02Z29.1A	Z0219	09-302126	S5001	10C10	R0056	10RC20A	R1304
6-33	716	6.2SR2	Z0214	02Z10A	Z0220	09-302140	54	10C573-2	56	10RZ7.5	Z3507
6-38	716	6.2SR2A	Z0214	02Z12A	Z0222	09-303005	703	10C573-3	56	10RZ7.5A	Z3507
6-49	708	6.2SR3	Z0214	02Z15A	Z0225	09-303013	641	10C574-2	56	10RZ7.5B	Z3507
6-53	254	6.2SR3A	Z0214	02Z18A	Z0228	09-304011	639	10C574-3	56	10RZ7.5C	Z3507
6-53/63	254	6.2SR4	Z0214	03-57-003	2	09-304012	52	10D1	R0052	10RZ7.5D	Z3507
6-60	253	6.2SR4A	Z0214	03-57-102	3	09-305006	709	10D-1	R0052	10RZ9.1	Z3511
6-60B	254	74	56	03-57-202	3	09-305011	738	10D2	R0052	10RZ9.1A	Z3511
6-60D	253	79	709	06B1M	C6056P	09-305014	802	10D-2	R0054	10RZ9.1B	Z3511
6-60P	253	7-10	709	07-1075-01	254	09-305021	802	10D3	R0053	10RZ9.1C	Z3511
6-61	253	7-17	728	07-1077-02	633	09-305023	801	10D4	R0053	10RZ9.1D	Z3511
6-61D	253	7-59-001/3477	135	07-1458-85	738	09-306010	134	10D-4	R0054	10RZ12	Z3514
6-61P	253	7-59-005/3477	176	07-2012-04	253	09-306012	135	10D5	R0054	10RZ12A	Z3514
6-62	253	7-59-010/3477	254	07-3012-04	253	09-306019	135	10D6	R0054	10RZ12B	Z3514
6-62D	253	7-59-019/3477	54	07-3015-05	250	09-306020	134	10D7	R0055	10RZ12C	Z3512
6-62F	51	7-59-020/3477	54	07-3350-57	639	09-306024	134	10D8	R0055	10RZ12D	Z3514
6-62P	253	7-59-021/3477	53	07-4235-73	637	09-306030	R0050	10D05	R0054	10RZ15	Z3516
6-63	254	7-59-022/3477	53	07-5085-36	R2502	09-306034	R0050	10D-05	R0050	10RZ15A	Z3516
6-69	2	7-59-023/3477	53	07-5134-14	134	09-306039	135	10D10	R0056	10RZ15B	Z3516
6-69X	2	7-59-024/3477	53	07-5160-15	135	09-306040	R0050	10DB1	175	10RZ15C	Z3516
6-88	254	7-59-029/3477	633	07-5331-86	Z0408	09-306046	R9001	10DB2A	176	10RZ15D	Z3516
6-89X	641	7-59-060/3477	253	07B38	C6082P	09-306050	R0054	10DB4A	177	10RZ18B	Z3518
6-90	720	7A30	243	08-0821	R0053	09-306051	134	10DB6A	178	10RZ18A	Z3518
6-93	55	7A31	714	09-004	594	09-306054	R0052	10DB6A-C	178	10RZ18B	Z3518
6A15	R0130	7A32	736	09-011	595	09-306057	135	10DC	R0054	10RZ18C	Z3518
6A30	R0130	7B1	240	09-30027	638	09-306059	R0054	10DC1	R0054	10RZ18D	Z3518
6A50	R0130	7B2	240	09-033006	641	09-306060	135	10DC-1	R9001	10RZ22	Z3520
6A100	R0131	7C1	240	09-300002	639	09-306061	135	10DC-1R	R9002	10RZ22A	Z3520
6A200	R0132	7C2	240	09-300005	253	09-306062	R0050	10DC-2	R0054	10RZ22B	Z3520
6A300	R0134	7C3	240	09-300006	253	09-306063	R0052	10DC-4	two	10RZ22C	Z3520
6A400	R0136	7D1	240	09-300007	639	09-306063	R0094	10DC-4R	R0054	10RZ22D	Z3520
6A500	R0136	7D2	240	09-300011	639	09-306088	R0052	10D-V	R0054	10RZ27	Z3522
6A600	R0136	7D3	240	09-300012	639	09-306089	R0700	10F5	R0162	10RZ27A	Z3522
6A700	R0137	7D210	R0056	09-300015	639	09-306093	134	10G4	R0056	10RZ27B	Z3522
6A800	R0137	7D210A	R0056	09-300016	639	09-306100	R0054	10H	R0092	10RZ27C	Z3522
6A900	R0138	7E1	240	09-300024	639	09-306101	R9001	10J2	R0050	10RZ27D	Z3522
6A1000	R0138	7E2	240	09-300027	638	09-306103	R0054	10J2F	R0050	10RZ33	Z3524
6A1118C	53	7E3	240	09-300028	638	09-306104	R0054	10J3P	R0131	10RZ33A	Z3524
6A10227	55	7G1	240	09-300029	639	09-306110	R0602	10P1	716	10RZ33B	Z3524
6A10228	54	7G2	240	09-300037	52	09-306111	R0602	10PZ7.5	Z3507	10RZ33C	Z3524
6A10229	642	7G3	240	09-300063	51	09-306112	R0052	10PZ7.5A	Z3507	10RZ33D	Z3524
6A10422	55	7G4	240	09-300067	S3031	09-306113	R0054	10PZ7.5B	Z3507	10RZ56	Z3530
6A10423	54	7L6-0105	241	09-300078	638	09-306114	R0054	10PZ7.5C	Z3507	10RZ56A	Z3530
6A10520	54	8-759-101-60	632	09-301001	632	09-306126	R2502	10PZ7.5D	Z3507	10RZ56B	Z3530
6A10622	254	8-0060	251	09-301002	250	09-306127	Z0416	10PZ9.1	Z3511	10RZ56C	Z3530
6A10624	632	8A10521	642	09-301003	633	09-306149	R0052	10PZ9.1A	Z3511	10RZ56D	Z3530
6A10851	55	8A10625	642	09-301004	632	09-306172	R0050	10PZ9.1B	Z3511	10RZ82	Z3534
6A10855	53	8A11083	642	09-301006	250	09-306176	R0054	10PZ9.1C	Z3511	10RZ82A	Z3534
6A11223	719	8A11667	238	09-301007	250	09-306180	Z0412	10PZ9.1D	Z3511	10RZ82B	Z3534
6A11301	253	8A11721	643	09-301008	254	09-306183	Z0408	10PZ10	Z3512	10RZ82C	Z3534
6A11665	633	8A12359	643	09-301009	633	09-306192	R0054	10PZ10A	Z3512	10RZ82D	Z3534
6A11668	632	8A12789	56	09-301010	230	09-306198	R0600	10PZ10B	Z3512	10RZ100	Z3536
6A12515	254	8A12991	230	09-301014	238	09-306199	R0600	10PZ10C	Z3512	10RZ100A	Z3536
6A12516	632	8A13164	643	09-301015	238	09-306205	R0051	10PZ10D	Z3512	10RZ100B	Z3536
6A12517	254	8A13718	254	09-301016	632	09-308004	C6001	10PZ12	Z3514	10RZ100C	Z3536
6A12679	53	8AN10	R0162	09-301019	238	09N1	718	10PZ12A	Z3514	10RZ100D	

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DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
1027 5T10	Z3507	13-29-6	C6063P	13-14879-6	Z0421	13-28391-2	52	13-55066-1	729	15-34401-1	C6012
1027 5T20	Z3507	13-30-6	C6069G	13-14879-7	Z0230	13-28392-1(metal)	243	13-55066-2	S0001	15-34452-1	C6062P
1029.1T5	Z3511	13-40-6	C6071P	13-14886-1	3	13-28392-1(plas)	736	13-55067-1	728	15-34503-1	C6056P
1029.1T10	Z3511	13-41-6	C6057P	13-14887-1	3	13-28392-2(metal)	243	13-55068-1	736	15-35059-1	C6063P
1029.1T20	Z3511	13-42-6	C6070P	13-14888-3	635	13-28392-2(plas)	736	13-55069-1	716	15-082019	53
10212T5	Z3514	13-0002	Z2514	13-14889-1	3	13-28392-3(metal)	243	13-55332-1	Z0415	15-085002	135
10212T10	Z3514	13-0003	R0050	13-14890-1	135	13-28392-3(plas)	736	13-55333-1	R0600	15-085003	135
10212T20	Z3514	13-0004	134	13-15465-1	R0600	13-28393-1	242	13-67583-5	56	15-085004	R9001
10215T5	Z3516	13-0006	716	13-15804-1	729	13-28394-3	243	13-67583-6	53	15-085005	134
10215T10	Z3516	13-0009	738	13-15808-1	727	13-28394-6	S3003	13-67585-4	53	15-085006	R0052
10215T20	Z3516	13-0010	729	13-15808-2	727	13-28432-1	S0001	13-67586-3	50	15-085007	R0054
10218T5	Z3518	13-0014	241	13-15809-1	712	13-28471-1	S3023	13-68617-1	50	15-085008	R0054
10218T10	Z3518	13-0020	720	13-15810-1	720	13-28532-1	S5001	13-85943-1	R9001	15-085009	135
10218T20	Z3518	13-0021	50	13-15833-1	736	13-28583-1	F2004	13-85943-2	R9001	15-085018	R0700
10222T5	Z3520	13-0022	728	13-15835-1	728	13-28584-1	720	13-85943-3	R9001	15-085027	134
10222T10	Z3520	13-0028	S3001	13-15840-1	728	13-28654-1	802	13-85962-1	134	15-085032	134
10222T20	Z3520	13-0032	704	13-15840-2	728	13-28654-2	802	13-86420-1	641	15-085033	R0054
10233T5	Z3524	13-0035	738	13-15841-1	719	13-28654-3	802	13-87433-1	641	15-085037	134
10233T10	Z3524	13-0040	720	13-15842-1	736	13-29033-1	729	13-94096-2	253	15-085038	R9001
11-085001	135	13-0041	54	13-15842-2	736	13-29033-2	728	13-076002	C6001	15-085039	R9001
11-085003	R0050	13-0043	52	13-16219-7	R9001	13-29033-3	736	13-085002	135	15-085040	R0053
11-085004	135	13-0044	716	13-16570-1	716	13-29033-4	729	13-085012	134	15-085041	R0050
11-085005	135	13-0048	54	13-16607-1	235	13-29165-1	R0054	13-085015	R0600	15-085043	R0053
11-085007	135	13-0049	245	13-16608-1	234	13-29432-1	728	13-085024	R0054	15-085061	135
11-085008	135	13-0050	R0050	13-16744-1	56	13-29775-1	S9100	13-085026	134	15-088002	716
11-085010	53	13-0058	54	13-16769-1	50	13-29775-2	S9100	13-085027	R0054	15-088003	56
11-085012	135	13-0061	716	13-17174-1	R0054	13-29776-1	717	13-085028	Z0412	15-088004	56
11-085013	R0050	13-0062	738	13-17174-2	R0052	13-29777-1	R2502	13-085029	134	15-100001	R0052
11-085014	135	13-0063	738	13-17174-3	R0054	13-29867-1	134	13D4	R0053	15-100002	R0052
11-085015	134	13-0064	53	13-17174-4	R0602	13-29867-2	R0602	13J2	R0053	15-100003	R0052
11-085022	134	13-0065	720	13-17204-1	134	13-29947-1	729	13J2F	R0053	15-100004	R0052
11-085024	R0054	13-0078	Z2519	13-17557-1	R0054	13-29974-4	244	14-1	736	15-108001	R9001
11-102001	R0050	13-0079	S3001	13-17569-1	R0050	13-29997-1	729	14-190-123-002	625	15-108002	R9001
11-102003	175	13-1032-5	56	13-17596-2	134	13-31013-1	54	14-2	736	15-108003	R0054
11-108002	175	13-1836-1	54	13-17596-4	135	13-31013-3	R9001	14-3	721	15-108004	R0054
11-120007	R0050	13-10320-14	709	13-17596-5	134	13-31013-4	56	14-501 01	R9001	15-108005	R0054
11B551-2	56	13-10321-5	56	13-17596-7	R0052	13-31013-5	56	14-511 01	134	15-108006	R0054
11B551-3	56	13-10321-6	720	13-17607-1	235	13-31014-1	R0054	14-514 05	135	15-108008	134
11B552-2	56	13-10321-7	719	13-17608-1	234	13-31014-2	R9001	14-514-11	134	15-108015	R0053
11B552-3	56	13-10321-8	719	13-17608-2	234	13-31014-3	R0053	14-514-12	134	15-108016	R0053
11B554-2	56	13-10321-10	709	13-18034-1	232	13-31014-4	R0700	14-514-14	R0054	15-108020	R0054
11B554-3	729	13-10321-11	709	13-18087-1	54	13-32362-1	734	14-514-15	135	15-108021	R0052
11B555-2	56	13-10321-12	56	13-18087-2	53	13-32364-1	52	14-514-16	134	15-108022	R0054
11B555-3	56	13-10321-14	709	13-18158-1	50	13-32366-1	720	14-514-17	R0034	15C1	R0091
11B560-2	S0001	13-10321-15	720	13-18198-1	232	13-32366-2	734	14-514-18	Z0414	15C2	R0092
11B560-3	S0001	13-10321-16	720	13-18359-3	240	13-32630-2	243	14-514-20	R0602	15C2D	R0092
11C1057	55	13-10321-17	720	13-18363-1	729	13-32630-3	243	14-514-22	134	15C4	R0094
11J2	R0052	13-10321-20	56	13-18364-1	726	13-32631-2	242	14-514-55	135	15C6	R0096
11J2F	R0052	13-10321-21	56	13-18365-1	726	13-32631-3	242	14-514-61	134	15C05	R0090
12/I	R9001	13-10321-29	56	13-18642-1	236	13-32632-1	714	14-514-62	R0602	15J2	R0054
12-1	712	13-10321-31	56	13-18642-2	236	13-32640-1	245	14-514-64	R0052	15J2F	R0054
12/1N	R9002	13-10321-32	56	13-18654-1	641	13-33173-1	801	14-514-65	R0052	15OD	Z0418
12-2	712	13-10321-41	56	13-18924-1	R1001	13-33174-1	S3021	14-514-70	R0052	15S1	R0091
12/3	R9001	13-14085-1	56	13-18924-2	R1001	13-33175-1	S9100	14-514-72	134	15S2	R0092
12/3-04	R9001	13-14085-2	56	13-18927-1	54	13-33176-1	S3021	14-515-01	Z2516	15S4	R0094
12-4	53	13-14085-3	56	13-18944-1	739	13-33177-1	R2502	14-515-11	Z0418	15S6	R0096
12-085005	135	13-14085-4	56	13-18944-2	739	13-33178-1	S3031	14-515-13	Z0410	15S05	R0090
12-085006	135	13-14085-6	56	13-18946-1	2	13-33179-2	Z0418	14-515-18	Z0414	15Z3	716
12-085009	135	13-14085-7	56	13-18947-1	3	13-33179-5	Z0418	14-515-23	Z0225	16A545-7	738
12-085029	134	13-14085-8	632	13-18948-1	3	13-33180-1	S3020	14-515-25	Z0415	16A1938	726
12-085031	R0050	13-14085-9	250	13-18948-2	636	13-33181-1	740	14-515-26	Z0215	16C-4	R0054
12-085034	134	13-14085-10	250	13-18950-1	709	13-33182-1	707	14-515-73	Z0225	16C-4	R0054
12-085035	135	13-14085-11	254	13-18951-1	636	13-33182-2	S3021	14-577-10	254	16C4B1P	176
12-085038	135	13-14085-12	250	13-18952-1	636	13-33183-1	R1215	14-600-01	2	16C4P	175
12-085040	R0053	13-14085-13	51	13-22581-1	736	13-33184-1	310	14-600-02	2	16CA	R0054
12-085041	135	13-14085-14	S9100	13-22582-1	57	13-33185-1	S3023	14-600-19	2	16F5	R0160
12-087004	R0602	13-14085-15	721	13-22690-1	802	13-33186-1	Z0426	14-602-03	54	16F10	R0162
12-100003	R0052	13-14085-16	56	13-22692-1	802	13-33187-1	Z0436	14-602-13	54	16F15	R0162
12-102001	R0050	13-14085-17	56	13-22692-2	802	13-33187-2	Z0438	14-602-35	55	16F20	R0132
12A700	R0137	13-14085-18	632	13-22739-1	232	13-33176-3	Z0421	14-602-41	728	16F30	R0134
12A800	R0137	13-14085-23	254	13-22741-1	232	13-33187-4	Z0423	14-602-46	55	16F40	R0134
12A900	R0138	13-14085-24	50	13-23543-1	241	13-33187-5	Z0436	14-602-48	56	16F60	R0136
12A1000	R0138	13-14085-25	254	13-23543-2	240	13-33188-2	707	14-602-49	735	16F80	R0137
12C2P-114	R0050	13-14085-26	56	13-23785-1	636	13-33189-1	R0600	14-602-54	52	16F100	R0138
12C05	R0160	13-14085-27	53	13-23822-1	709	13-33376-1	R0054	14-602-55	53	16G2	55
12C10	R0162	13-14085-28	637	13-23824-1	709	13-33595-1	728	14-602-56	716	16GN	720
12C15	R0162	13-14085-29	240	13-23824-2	709	13-33595-2	729	14-602-58	717	16J1	56
12C20	R0162	13-14085-30	637	13-23825-1	713	13-33595-3	728	14-602-59	717	16J2 (trans)	56
12C70	R0137	13-14085-31	640	13-23826-1	52	13-33742-1	245	14-602-60	716	16J2 (diode)	R0054
12C80	R0137	13-14085-32	639	13-23826-2	52	13-34001-1	S9100	14-602-61	54	16J2F	R0054
12C90	R0138	13-14085-33	639	13-23826-3	52	13-34045-1	55	14-602-69	54	16L2	56
12C100	R0138	13-14085-34	719	13-23840-1	736	13-34045-2	55	14-602-77	S0001	16L3	56
12F5	R0130	13-14085-35	632	13-23916-1	55	13-34046-1	245	14-602-78	720	16L5	56
12F10	R0131	13-14085-60	254	13-23917-1	134	13-34047-1	246	14-602-79	51	16L22	56
12F15	R0132	13-14085-71	254	13-26009-1	709	13-34089-2	244	14-602-80	723	16L23	56
12F20	R0132	13-14085-72	54	13-26377-1	643	13-35059-1	C6063P	14-602-81	S0005	16L42	50
12F30	R0134	13-14094-1	135	13-26386-1	715	13-35089-1	S3031	14-603-02	56	16L43	50
12F40	R0134	13-14094-2	135	13-26576-1	56	13-35089-2	244	14-603-03	709	16L44	50
12F50	R0136	13-14094-3	135	13-26576-2	56	13-35089-3	244	14-603-05	56	16L62	50
12F60</											

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DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
18D84A-C	177	21A015-026	736	24E-001	R2502	24MW829	R0052	32-0008	134	34-6015-3	54
18D86A-C	178	21A015-027	724	24E-001-C	R2502	24MW851	R9002	32-0030	R2502	34-6015-4	54
18J2	R0055	21A020-001	R0050	24E-002	R0700	24MW852	53	32-0060	R0054	34-6015-5	50
18J2F	R0055	21A020-005	135	24E-002-C	R0700	24MW853	two 633	32-0061	R0054	34-6015-6	50
18Z6	Z0408	21A037-003	Z0415	24E-002-0	R0700	24MW854	R0050	32-20738	55	34-6015-7	54
18Z6A	Z0408	21A037-006	Z0442	24E-022	R0700	24MW855	738	32-23555-1	591	34-6015-8	54
19-1	716	21A037-008	Z0222	24MW27	253	24MW856	738	32-23555-2	591	34-6015-9	50
19-2	716	21A040-36	254	24MW28	250	24MW857	632	32-23555-3	591	34-6015-10	50
19-3	708	21A040-37	55	24MW29	633	24MW862	R0050	32-23555-4	591	34-6015-11	54
19-020-070	56	21A040-003	56	24MW34	250	24MW863	56	32E64	716	34-6015-12	54
19-020-071	55	21A040-004	56	24MW43	253	24MW864	R0050	32Z6	Z0402	34-6015-15	52
19-020-072	50	21A040-005	254	24MW44	637	24MW865	53	32Z6A	Z0402	34-6015-17	709
19-020-073	55	21A040-007	56	24MW55	637	24MW871	R0050	33-070	50	34-6015-18	54
19-020-074	53	21A040-010	56	24MW59	3	24MW892	254	33-090	245	34-6015-19	50
19-020-075	713	21A040-014	254	24MW61	639	24MW893	630	33-096	246	34-6015-20	50
19-020-076	729	21A040-015	802	24MW70	250	24MW924	R0054	33-0224	R0050	34-6015-21	54
19-020-077	S3001	21A040-016	56	24MW76	R0050	24MW953	53	33-0025	Z0217	34-6015-22	50
19-020-078	S3001	21A040-017	53	24MW77	250	24MW954	55	33-0026	R0054	34-6015-23	243
19-020-079	C6001	21A040-019	53	24MW111	253	24MW955	R2500	33-1000-00	250	34-6015-24	243
19-3349	53	21A040-022	630	24MW115	250	24R2	R0255	33-1001-00	250	34-6015-25	50
19-3415	254	21A040-023	56	24MW116	253	24T002	56	33-1002-00	two 642	34-6015-26	254
19-3416	254	21A040-024	50	24MW130	641	24T-013-005	709	33-1004-00	232	34-6015-28	S3021
19-3934-643	736	21A040-025	50	24MW132	254	24T-015-013	56	33-1009-01	253	34-6015-29	709
19-3935-641	714	21A040-031	640	24MW152	639	24T-016	56	33-1019-00	254	34-6015-30	243
19-085005	135	21A040-032	728	24MW178	254	24T-016-001	720	33-1020-00	254	34-6015-34	3
19-085010	R0053	21A040-033	53	24MW179	254	24T-016-010	56	33-1021-00	632	34-6015-37	709
19-085017	Z0217	21A040-034	55	24MW185	254	24T-016-013	56	33H50	54	34-6015-41	50
19-085018	134	21A040-035	629	24MW187	250	24T-016-015	720	33Z6	Z0208	34-6015-42	721
19-085022	R0053	21A040-049	242	24MW192	R0054	24T-016-016	56	33Z6A	Z0208	34-6015-43	721
19-100001	R0050	21A040-050	242	24MW197	R0052	24T-016-(016)	720	34-6	2	34-6015-44	243
19A115328P1	50	21A040-051	243	24MW241	R0054	25A	722	34-119	2	34-6016-1	254
19A126813	704	21A040-052	245	24MW256	238	25A1	722	34-220	2	34-6016-3	53
19CC19	Z0410	21A040-053	50	24MW268	R0053	25A2	729	34-221	2	34-6016-11	254
20-1	720	21A040-054	50	24MW269	R0053	25A1273-001	738	34-298	2	34-6016-14	54
20A-1	R0091	21A040-055	724	24MW287	56	25A1281-001	56	34-805-7-17	Z0407	34-6016-15	53
20A-2	R0092	21A040-056	55	24MW331	Z0412	25B	723	34-1000	247	34-6016-16	243
20A-3	R0094	21A040-057	633	24MW361	53	25B1	723	34-1001	248	34-6016-17	50
20A-4	R0094	21A040-058	629	24MW368	639	25B2	729	34-1002	245	34-6016-18	243
20A-5	R0096	21A040-059	52	24MW372	55	25B378	253	34-1003	246	34-6016-25	243
20A-6	R0096	21A040-060	238	24MW441	254	25C15	R0253	34-1004	S3002	34-6016-26	243
20A-8	R0097	21A040-061	641	24MW454	53	25P1	134	34-1005	S3003	34-6016-27	243
20A-05	R0050	21A040-077	50	24MW458	738	25Z6	Z0415	34-1006	244	34-6016-28	3
20A-10	R0098	21A040-078	50	24MW460	53	25Z6A	Z0415	34-1007	S0006	34-6016-29	243
20A-70	135	21A040-079	633	24MW461	53	26MW613	250	34-1010	721	34-6016-30	3
20A-79	134	21A041-002	R2501	24MW535	56	26R2	R0257	34-1013	716	34-6016-31	S3023
20A-90	135	21A041-003	R2500	24MW594	56	26R2S	R0257	34-1014	721	34-6016-32	3
20A-90M	134	21A101-002	C6069G	24MW595	53	27-226	R9001	34-1026	241	34-6016-33	243
20A-90M	135	21A102-001	R0054	24MW596	53	27C226	R9001	34-1027	702	34-6016-47	715
20A0007	254	21A102-002	R0054	24MW597	53	27P1	135	34-1028	247	34-6016-49	721
20A0009	254	21A103-006	135	24MW598	632	27Z6	Z0417	34-1029	248	34-6016-50	253
20A0015	254	21A103-007	R0050	24MW599	254	27Z6A	Z0417	34-1035	703	34-6016-63	54
20A0017	230/232	21A103-010	134	24MW600	253	28-22-01	R0054	34-1036	702	34-6017-3	S0001
20A10849	53	21A103-011	135	24MW601	632	28-22-15	R0054	34-6000-3	2	34-8003	R0052
20AG2	R0092	21A103-012	R0052	24MW602	R0050	28-22-19	R0054	34-6000-10	2	34-8022-6	135
20AS	R0052	21A103-013	R0054	24MW607	R9002	28-22-21	R0054	34-6000-16	254	34-8022-7	135
20B409	134	21A103-015	R0054	24MW608	253	28-29-01	R0054	34-6000-18	2	34-8034	R9001
20B410	134	21A103-016	134	24MW609	53	28-65-01	R0054	34-6000-19	2	34-8037	R9001
20C	R0052	21A103-017	135	24MW613	250	28P1	134	34-6000-69	709	34-8037-1	R9001
20C1	R0091	21A103-018	R0050	24MW614	250	28Z6	Z0418	34-6000-70	718	34-8037-2	R9001
20C2	R0092	21A103-021	R0052	24MW615	633	28Z6A	Z0418	34-6000-72	718	34-8037-3	R9001
20C4	R0094	21A103-022	135	24MW618	643	29A4	53	34-6000-76	3	34-8037-4	R9001
20C5	R0096	21A103-041	R2501	24MW653	56	29A829	716	34-6000-79	3	34-8054-5	R0052
20C6	R0096	21A103-042	R0050	24MW654	53	29P1	134	34-6000-80	3	34-8054-6	Z0407
20C05	R0090	21A103-043	R0050	24MW655	two 135	29V008M01	253	34-6000-81	3	34-8054-7	R0053
20C71	254	21A103-044	R0052	24MW673	53	29V011H01	253	34-6000-83	253	34-8054-9	R0054
20C72	254	21A103-045	Z0414	24MW737	53	29V012H01	253	34-6001-6	54	34-8054-10	R0054
20HA3	R0162	21A103-046	134	24MW738	56	29V0038H03	254	34-6001-13	54	34-8054-14	R0053
20J3P	R0132	21A103-047	R2503	24MW741	238	30-090	245	34-6001-15	242	34-8054-15	R0050
20MC	2	21A103-048	135	24MW760	two 254	30AS	R0053	34-6001-16	254	34-8057-1	R0050
20R2	R0250	21A103-049	Z0419	24MW771	135	30AC	R0053	34-6001-28	254	34-8057-3	135
20S1	R0091	21A103-050	R0054	24MW772	R0052	30J3P	R0134	34-6001-33	254	34-8057-4	Z0420
20S2	R0092	21A103-104	R0050	24MW773	55	30P1	135	34-6001-43	254	34-8057-6	134
20S4	R0094	21A105-001	720	24MW774	53	30R1	R0091	34-6001-44	254	34-8057-7	R0054
20S6	R0096	21A105-004	S0001	24MW775	50	30R3	R0094	34-6001-51	641	34-8057-8	R0055
20S05	R0090	21A105-006	S0001	24MW776	733	30R6	R0096	34-6001-54	53	34-8057-9	R0055
20V-HG	254	21B1M	594	24MW777	254	30R8	R0097	34-6001-55	53	34-8057-12	Z0418
21/392	R9003	22-1	232	24MW778	S3020	30R10	R0098	34-6001-56	53	34-8057-13	R0602
21-1	736	22-001001	55	24MW779	R0052	30S1	R0091	34-6001-57	53	34-8057-14	Z0415
21-1AA	R1001	22-001002	56	24MW780	254	30S3	R0094	34-6001-58	53	34-8057-16	R0054
21-28	232	22-001003	56	24MW781	254	30S8	R0097	34-6001-60	53	34-8057-19	R2502
21-36	254	22-001004	56	24MW782	254	30S10	R0098	34-6001-61	243	34-8057-20	R2502
21-37	254	22-001005	56	24MW783	254	30V-H6	254	34-6001-62	243	34-8057-24	R2502
21A2	R9001	22-001006	53	24MW785	135	31-1	721	34-6001-63	54	34-8057-25	134
21A4	R0056	22-001007	54	24MW789	254	31-0017	254	34-6001-64	54	34-8057-26	134
21A6	R0050	22-001008	703	24MW790	53	31-0018	254	34-6001-65	713	34-8057-27	Z0412

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DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
35P1	254	42-23972	135	46-86116-3	R0053	46-86332-3	R9001	468R62	R0056	48-63078A64	253
35Z6	Z0210	42-23975	R0050	46-86117-3	709	46-86335-3	S3021	468R63	R0056	48-63078A65	250
35Z6A	Z0210	42-23977	R0098	46-86118-3	709	46-86336-3	R9001	468R64	R0056	48-63078A66	250
36D32	134	42-24263	S9100	46-86119-3	709	46-86338-3	R0054	468R68	R0056	48-63078A68	633
36J003-1	632	42-28199	134	46-86120-3	56	46-86339-3	R0055	468X2	R0050	48-63078A69	53
36P1	254	42-28200	R2500	46-86123-3	639	46-86340-3	R0055	468X3	R0050	48-63078A70	53
36P1C	254	42-28201	R0600	46-86126-3	56	46-86341-3	Z0412	46R2	R0136	48-63078A71	56
36P1F	254	42-28202	R0092	46-86127-3	56	46-86342-3	51	47-2	R0700	48-63079A97	56
36P2F	254	42-28203	56	46-86130-3	241	46-86343-3	712	48-110	R9001	48-63081A82	254
36P3	254	42-28204	720	46-86131-3	56	46-86345-3	712	48-191A01	R0054	48-63082A15	635
36P3A	254	42-28205	738	46-86132-3	53	46-86346-3	712	48-191A02	R0053	48-63082A16	254
36P3C	254	42-28206	56	46-86133-3	56	46-86347-3	245	48-191A03	R0054	48-63082A24	635
36P4	254	42-28207	S0003	46-86139-3	703	46-86348-3	245	48-191A04	R0050	48-63082A25	53
36P4C	254	42-28208	715	46-86140-3	R0053	46-86349-3	703	48-191A05	R0054	48-63082A26	53
36P5	254	42-28209	737	46-86141-3	R0054	46-86350-3	703	48-191A06	R0055	48-63082A27	53
36P5C	254	42-28210	S0003	46-86143-3	55	46-86351-3	R0052	48-191A07	R0056	48-63082A45	53
36P7C	254	42-28211	716	46-86144-3	56	46-86355-3	R0054	48-191A08	R0052	48-63082A71	53
36P7T	254	42-28212	245	46-86145-3	720	46-86358-3	R0052	48-1005	R0050	48-63084A03	632
36Z6	Z0211	42-28213	246	46-86146-3	R0053	46-86380-3	two R0600	48-6712A02	R9001	48-63084A04	633
36Z6A	Z0211	42A14	134	46-86147-3	R0053	46-86381	S0001	48-8613	R0700	48-63084A05	632
37Z6	Z0212	42J2	R0050	46-86148	R0054	46-86381-3	736	48-8613-3	638	48-63084A06	134
37Z6A	Z0212	42R2	R0132	46-86149-3	R0054	46-86384-3	240	48-10062A01	R0050	48-63086A19	254
38P1	254	42Z6	Z0219	46-86150-3	R0054	46-86386-3	240	48-10062A02	R0053	48-63590A01	135
38Z6	Z0214	42Z6A	Z0219	46-86163-3	633	46-86387-3	240	48-10062A04	R0054	48-64978A27	3
38Z6A	Z0214	43P1	253	46-86168-3	134	46-86388-3	704	48-10062A05	R0053	48-64978A28	3
39A9	254	43P2	254	46-86169-3	713	46-86389-3	740	48-10073A01	631	48-64978A29	3
39P1	230/232	43P3	253	46-86170-3	52	46-86390-3	740	48-10073A02	632	48-64978A39	F2004
39Z6	Z0215	43P4	254	46-86171-3	56	46-86392-3	Z0420	48-10074A01	632	48-64978A41	715
39Z6A	Z0215	43P4C	254	46-86172-3	56	46-861148-3	R0054	48-10074A02	632	48-65112A3	R0700
40-601	633	43P6	254	46-86173-3	713	46A81	R0050	48-10074A03	630	48-65112A65	56
40AS	R0053	43P6A	254	46-86177-3	R0052	46A82	R0050	48-10079A01	3	48-65112A67	56
40C	R0053	43P6C	253	46-86178-3	R9001	46A83	R0050	48-10079A02	3	48-65112A73	R0700
40H	R0053	43P7C	254	46-86179-3	R0055	46A84	R0052	48-10346A01	R0052	48-65113A88	56
40HF5	R0250	43Z6	Z0220	46-86182-3	713	46A85	R0052	48-10346A02	134	48-65118A64	56
40HF10	R0251	43Z6A	Z0220	46-86183-3	713	46A86	R0052	48-10577A01	R0052	48-65123A67	56
40HF20	R0253	44-530	R0050	46-86184-3	R0050	46A87	R0052	48-10577A02	R0602	48-65123A95	56
40HF40	R0255	44A354365	S3002	46-86185-3	R9002	46A88	R0052	48-13448A05	722	48-65132A79	2
40HF60	R0257	44P1	2	46-86186-3	R0052	46A89	R0053	48-13470	729	48-65144A72	56
40HFR5	R0250R	44R2	R0134	46-86187-3	R0050	46A90	R0053	48-40118801	52	48-65146A61	709
40HFR10	R0251R	45N2M	54	46-86189-3	241	46A911	R0054	48-40170G01	55	48-65146A62	709
40HFR20	R0253R	45N3	725	46-86194-3	Z0412	46A912	R0054	48-40171G01	53	48-65146A63	720
40HFR40	R0255R	45N4	54	46-86195-3	254	46A913	R0055	48-40172G01	643	48-65147A72	728
40HFR60	R0257R	45N4M	54	46-86196-3	238	46A915	R0056	48-40235G01	R0052	48-65173A78	729
40J2	R0053	46-86-3	R0053	46-86199-3	R0055	46A916	R0056	48-40246G01	729	48-65174A24	56
40J3P	R0134	46-119-3	709	46-86200-3	134	46A918	R0056	48-40246G02	729	48-65831A02	R9002
40P1	254	46-861-3	R0700	46-86201-3	R0055	46A921	R0050	48-40247G01	730	48-65837A02	135
40P2	254	46-1340-3	C6069G	46-86207-3	56	46A927	R0050	48-40247G02	729	48-66629A02	R0050
41J2	R0053	46-1346-3	C6069G	46-86208-3	56	46A928	R0052	48-40458A06	Z0411	48-66629A05	R0050
41N1	56	46-1352-3	C6067G	46-86209-3	56	46A929	R0052	48-40458A06	Z0411	48-66629A06	R0050
41N2	729	46-5002-1	C6001	46-86210-3	53	46A935	R0054	48-40516C01	R2502	48-67020A11	134
41N2AA	729	46-5002-3	C6001	46-86211-3	641	46A950	R0055	48-41205G01	53	48-67120A01	R0052
41N2M	729	46-5002-4	C6001	46-86213-3	230	46A952	R0056	48-41508A01	R0050	48-67120A02	R0052
41N3	729	46-5002-5	C6077P	46-86220-3	R9001	46A959	R0056	48-41508A02	R0051	48-67120A03	R0052
41Z6	Z0217	46-5002-6	C6069G	46-86224-3	56	46AX1	R0050	48-41768G01	135	48-67120A04	R0052
41Z6A	Z0217	46-5002-7	C6001	46-86226-3	703	46AX2	R0050	48-42098801	708	48-67120A05	R0052
42-2335	R0050	46-5002-8	C6060P	46-86228-3	56	46AX3	R0050	48-42383A01	R2502	48-67120A06	R0054
42-17443	R0050	46-5002-12	C6070P	46-86229-3	52	46AX4	R0050	48-42485801	R2503	48-67120A07	R0054
42-17444	726	46-5002-13	C6071P	46-86230-3	52	46AX5	R0052	48-43351A01	254	48-67120A08	R0054
42-18109	238	46-5002-14	C6072P	46-86231-3	53	46AX7	R0052	48-43351A02	56	48-67120A09	R0052
42-18111	50	46-5002-15	C6063P	46-86232-3	706	46AX8	R0052	48-43351A03	56	48-67120A10	R0053
42-19645	R0050	46-5002-16	C6069G	46-86233-3	713	46AX9	R0052	48-43351A04	56	48-67120A11	135
42-19670	723	46-5002-17	C6059P	46-86234-3	245	46AX10	R0052	48-43351A05	56	48-67120A13	R0052
42-19862	641	46-5002-18	C6079P	46-86235-3	246	46AX11	R0054	48-44166G01	722	48-83750-G01	723
42-19862A	254	46-5002-19	C6081P	46-86238-3	51	46AX12	R0055	48-60022A13	726	48-83750-G02	232
42-19863	254	46-5002-21	C6077P	46-86240-3	56	46AX13	R0055	48-60022A14	241	48-83750-G03	S3001
42-19864	254	46-8610-3	632	46-86244-3	56	46AX14	R0056	48-60022A97	135	48-83750-G04	708
42-21866	R0053	46-8611-1	632	46-86251-3	56	46AX16	R0050	48-60022A98	R2502	48-83750G05	633
42-22008	51	46-8611-3	632	46-86252-3	55	46AX17	R0052	48-61074801	135	48-83750G06	3
42-22009	S9100	46-8613-3	R0700	46-86253-3	135	46AX19	R0052	48-61767801	135	48-90165A01	716
42-22158	53	46-8613-3	638	46-86254-3	R0602	46AX21	R0052	48-62334A01	134	48-90172A01	53
42-22532	56	46-8616-3	234	46-86256-3	253	46AX30	R0052	48-63005A66	54	48-90229A01	R0052
42-22533	55	46-8619-3	R0054	46-86257-3	75	46AX34	R0053	48-63005A72	722	48-90232A06	S3031
42-22534	639	46-8619-3	134	46-86264-3	R9002	46AX52	R0054	48-63026A45	240	48-90232A17	709
42-22535	254	46-8620-3	R0054	46-86265-3	56	46AX54	R0054	48-63026A46	723	48-90232A18	709
42-22537	135	46-8623-3	135	46-86266-3	135	46AX55	R0055	48-63026A47	724	48-90232A19	56
42-22539	135	46-8629-3	56	46-86268-3	52	46AX56	R0055	48-63026A48	725	48-90233A09	R2501
42-22540	R0054	46-8636-3	639	46-86269-3	720	46AX59	R0056	48-63029A16	639	48-97046A02	253
42-22755	135	46-8643-3	R0700	46-86270-3	R0054	46AX70	R0056	48-63029A17	254	48-97046A03	633
42-22778	3	46-8644-3	135	46-86271-3	R0053	46AX82	R0056	48-63029A18	250	48-97046A04	56
42-22779	3	46-8646-3	135	46-86274-3	55	46AX84	R0056	48-63029A19	250	48-97046A05	56
42-22780	3	46-8647-3	R0052	46-86280-3	R0050	46AX85	R0056	48-63029A60	637	48-97046A06	56
42-22781	3	46-8661-3	R0052	46-86281-3	R0050	46BD1	R0050	48-63029A90	640	48-97046A07	56
42-22784	3	46-8665-3	633	46-86282-3	R0053	46BD2	R0050	48-63029A91	250	48-97046A08	638
42-22785	55	46-8666-3	632	46-86283-3	51	46BD5	R0050	48-63029A92	253	48-97046A09	638
42-22786	726	46-8671-3	641	46-86284-3	Z0412	46BD8	R0052	48-63029A93	250	48-97046A10	632
42-22787	726	46-8676-3	R0052	46-86285-3	719	46BD9	R0052	48-63029A94	250	48-97046A11	Z0211
42-22809	725	46-8677-2	56	46-86286-3	R0700	46BD11	R0052	48-63075A72	637	48-97046A15	642
42-22810	716	46-8677-3	56	46-86288-3	R0700	46BD12	R0052	48-63075A73	637	48-97046A16	640
42-22811	726	46-8679-3	632	46-86289-3	R0050	46BD14	R0053	48-63075A74	639	48-97046A17	56
42-22812	725	46-8680-3	633	46-86299-3	56	46BD19					

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DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
48-97046A52	738	48-124218	641	48-134302	623	48-134560	628	48-134724	722	48-134850	Z0414
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48-97046A55	253	48-124221	639	48-134405	639	48-134563	630	48-134727	230	48-134853	712
48-97046A56	633	48-124246	623	48-134406	639	48-134564	630	48-134728	Z0439	48-134854	725
48-97046A57	254	48-124247	232	48-134407	639	48-134565	631	48-134729	236	48-134855	723
48-97048A02	134	48-124255	638	48-134408	632	48-134566	632	48-134730	627	48-134856	238
48-97048A04	R0050	48-124256	638	48-134411	2	48-134570	230	48-134731	230	48-134857	718
48-97048A05	134	48-124258	631	48-134412	2	48-134574	628	48-134732	730	48-134858	Z0426
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48-97048A20	R0050	48-124296	3	48-134419	632	48-134587	134	48-134739	706	48-134867	57
48-97127A02	723	48-124297	631	48-134420	632	48-134588	134	48-134740	236	48-134868	623
48-97127A03	723	48-124300	630	48-134421	632	48-134589	639	48-134741	624	48-134869	57
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48-97162A05	53	48-124344	630	48-134457	638	48-134638	624	48-134766	623	48-134900	740
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48-97162A22	251	48-124357	633	48-134472	629	48-134653	Z0412	48-134782	723	48-134913	57
48-97162A26	56	48-124358	632	48-134473	629	48-134654	722	48-134783	723	48-134914	57
48-97162A29	246	48-124359	632	48-134474	629	48-134655	638	48-134784	724	48-134915	57
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48-97162A33	53	48-124366	638	48-134478	710	48-134663	Z0426	48-134788	625	48-134919	712
48-97162A34	633	48-124367	638	48-134479	638	48-134664	723	48-134789	731	48-134920	240
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48-97162A38	728	48-124377	639	48-134483	633	48-134668	53	48-134795	639	48-134924	731
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48-97168A02	R0050	48-124379	632	48-134485	637	48-134670	623	48-134797	640	48-134926	731
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48-97168A11	R0050	48-124446	630	48-134495	638	48-134676	637	48-134804	722	48-134932	56
48-97168A13	135	48-125204	628	48-134496	638	48-134677	637	48-134805	723	48-134933	735
48-97168A14	R0050	48-125208	230	48-134499	638	48-134678	637	48-134806	724	48-134934	235
48-97168A16	R0050	48-125228	639	48-134500	633	48-134679	637	48-134807	725	48-134935	53
48-97172A01	R0054	48-125229	631	48-134501	638	48-134680	639	48-134808	724	48-134936	703
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48-97177A06	F0021	48-125231	632	48-134508	639	48-134682	640	48-134810	725	48-134938	232
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HEP Semiconductor Replacement Cross-References

DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
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48-134978	RO056	48-137109	738	48-137262	56	48-137386	S0001	50A103	638	51M70177A05	C6076P
48-134979	56	48-137110	736	48-137263	56	48-137387	Z0408	50A5	RO054	51M70177A07	C6015
48-134980	737	48-137111	728	48-137265	738	48-137388	56	50B54	254	51M70177A01	C6066P
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48-134983	727	48-137115	728	48-137268	642	48-137391	716	50B175-A	254	51O4-90	135
48-134985	727	48-137116	S7000	48-137269	642	48-137392	S9100	50B175-B	254	51P2	3
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48-134988	721	48-137119	623	48-137271	643	48-137394	Z0225	50B324	254	51S10276A01	591
48-134989	716	48-137120	628	48-137272	Z0426	48-137395	R1005	50B364	254	51S10302A01	C6001
48-134990	RO050	48-137121	624	48-137277	S5003	48-137396	56	50B415	238	51S10382A01	C6056P
48-134991	Z0405	48-137122	623	48-137278	S0001	48-137398	S0002	50C	RO054	51S10393A01	C6060P
48-134992	736	48-137123	623	48-137279	Z0215	48-137399	S0002	50C371	55	51S10422A01	594
48-134993	Z0407	48-137124	628	48-137280	R1001	48-137400	S0004	50C372	55	51S10437A01	594
48-134994	730	48-137125	624	48-137281	R1005	48-137401	RO102	50C373	55	51S10534A01	C6013
48-134995	740	48-137126	724	48-137282	310	48-137402	RO104	50C374	55	51S10534A03	C6013
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48-134997	737	48-137128	S5000	48-137284	RO220R	48-137404	Z0406	50C394-O	56	51S10559A	C6056P
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48-137001	235	48-137134	740	48-137290	RO056	48-137410	707	50CJ139	55	51S10611A08	C3804R
48-137002	706	48-137135	724	48-137291	RO602	48-137411	S9140	50E1	RO052	51S10611A09	C6001
48-137003	735	48-137137	725	48-137292	RO220	48-137412	RO220	50E2	RO052	51S10611A10	C6012
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48-137011	714	48-137145	701	48-137300	735	48-137420	RO100	50E05	RO050	52A011-1	RO050
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48-137014	737	48-137147	701	48-137302	RO056	48-137422	716	50J1	RO096	52D5-1	RO050
48-137015	737	48-137148	701	48-137303	246	48-137423	S0004	50J2P	RO136	53A001-1	134
48-137017	Z0417	48-137149	S3020	48-137304	246	48-137425	715	50J3P	RO136	53A001-2	134
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48-137021	S0006	48-137155	700	48-137307	243	48-137435	56	50Z9.1	Z0412	53A009-1	R9001
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48-137042	620	48-137177	Z0415	48-137326	707	48-137458	Z0417	50Z15C	Z0418	538005-2	135
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48-137051	RO086	48-137191	724	48-137336	738	48-137469	Z0426	50Z56	Z0432	53C003-1	R9001
48-137052	Z0421	48-137192	725	48-137337	Z0211	48-137472	S5009	50Z56A	Z0432	53C006-1	134
48-137053	704	48-137193	254	48-137338	R1246	48-137473	701	50Z56B	Z0432	53C006-2	135
48-137054	S5006	48-137194	720	48-137339	56	48-137474	700	50Z56C	Z0432	53C007-1	RO050
48-137055	56	48-137195	715	48-137340	RO094	48-137475	701	50Z62	Z0433	53C009-1	RO053
48-137056	56	48-137196	720	48-137341	740	48-137476	S3021	50Z62A	Z0433	53C009-2	134
48-137057	56	48-137197	719	48-137342	235	48-137477	716	50Z62B	Z0433	53C012-1	RO050
48-137058	310	48-137198	RO050	48-137343	802	48-137478	Z0219	50Z62C	Z0433	53C013-1	Z0402
48-137059	721	48-137199	250	48-137344	704	48-137479	Z0214	50Z82	Z0436	53C014-1	RO050
48-137061	715	48-137200	S5003	48-137345	RO221R	48-137481	R1222	50Z82A	Z0436	53C017-1	RO053
48-137062	Z0234	48-137202	S3020	48-137346	RO221	48-137483	723	50Z82B	Z0436	53C020-1	135
48-137064	621	48-137203	740	48-137347	RO053	48-137485	S5000	50Z82C	Z0436	53E001-1	135
48-137065	311	48-137205	RO052	48-137348	RO053	48-137486	S3021	50Z110	Z0439	53E003-1	135
48-137067	52	48-137206	726	48-137349	R1222R	48-137488	F2004	50Z110A	Z0439	53E006-1	RO602
48-137068	52	48-137207	240	48-137350	729	48-137489	721	50Z110B	Z0439	53E009-1	R2502
48-137069	717	48-137208	RO052	48-137351	729	48-644587	135	50Z110C	Z0439	53E010-1	RO050
48-137070	F2005	48-137209	Z0416	48-137352	723	48-644676	639	51	51	53E011-1	178
48-137071	733	48-137210	Z0408	48-137353	724	48-644677	639	51-10276A01	591	53J001-1	RO054
48-137072	733</										

HEP Semiconductor Replacement Cross-References

DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
54	722	57A1-55	708+736	57A3-12	two 230	57A104-8	712	57B143-12	50	60DE10	R0056
54A	724	57A1-56		57A4-1	232	57A105-12	736	57B144-12	50	60J1	R0096
54B	725	57A1-57		57A4-2	232	57A106-12	715	57B145-12	51	60J2	R0050
54BLK	722	57A1-58		57A4-4	232	57A107-8	728	57B146-12	50	60J2P	R0136
54BLU	726	57A1-59		57A5-1	3	57A108-6	715	57B148-12	51	60J3P	R0136
54BRN	722	57A1-60		57A5-2	3	57A110-9	716	57B149-12	802	60Z6	Z3507
54C	725	57A1-61		57A5-3	253	57A121-9	737	57B150-12	802	60Z6A	R0056
54D	726	57A1-62		57A5-4	134	57A122-9	715	57B151-6	50	61-896B	
54E	724	57A1-63	R0054	57A5-5	253	57A123-10	241	57B152-12	50	61B002-1	637
54GRN	725	57A1-64	135	57A5-6	56	57A124-10	232	57B153-9	53	61B003-1	639
54ORN	724	57A1-65	R0700	57A5-7	56	57A125-9	736	57B156-9	737	61B004-1	631
54RED	723	57A1-66		57A5-8	56	57A126-12	721	57B157-9	715	61B005-1	633
54WHT	726	57A1-67		57A5-9	254	57A128-9	243	57B158-10	240	61B006-1	632
54YEL	725	57A1-68		57A5-10	254	57A129-9	243	57B159-12	51	61B007-2	56
55-641	S9100	57A1-69		57A6-1	632	57A130-9	242	57B160-8	723	61B009-1	632
55-643	238	57A1-70		57A6-2	230	57A131-10	243	57B166-12	56	61B015-1	632
55-1016	253	57A1-71		57A6-3	232	57A132-9	636	57B167-9	243	61B016-1	633
55-1026	54	57A1-72		57A6-4	54	57A132-10	242	57B168-9	242	61B017-1	631
55-1027	641	57A1-73		57A6-5	641	57A133-12	57	57B169-12	801	61B018-1	633
55-1029	254	57A1-74		57A6-6	254	57A134-12	56	57B170-9	726	61B019-1	632
55-1082	55	57A1-75		57A6-6A	254	57A135-12	54	57B171-9	717	61B020-1	633
55-1083	716	57A1-76	51+53	57A6-6B	254	57A136-12	736	57B177-12	50	61B021-1	632
55-1084	53	57A1-77		57A6-6C	254	57A137-12	52	57B178-12	52	61B022-2	633
55-1085	716	57A1-78		57A6-7	S0002	57A138-4	730	57C5-1	3	61B022-3	632
55P2	3	57A1-79		57A6-8	232	57A139-4	718	57C5-2	3	61B023-3	632
56-10	134	57A1-80		57A6-9	54	57A140-12	54	57C5-3	253	61B026-1	253
56-26	134	57A1-81		57A6-10	240	57A141-4	709	57C5-4	3	61B027-1	254
56-56	R0602	57A1-82		57A6-11	54	57A142-4	719	57C5-5	253	61J2	R0052
56-8086	50	57A1-83		57A6-12	238	57A143-12	50	57C5-6	56	61J001-1	55
56-8087	50	57A1-84		57A6-14	240	57A144-12	50	57C5-7	56	61J002-1	55
56-8088	56	57A1-85		57A6-15	716	57A145-12	51	57C5-8	56	61J003-1	55
56-8089	50	57A1-86		57A6-16	254	57A146-12	50	57C6-3	230/232	61J004-1	632
56-8090	55	57A1-87		57A6-17	736	57A147-12	716	57C6-4	54	61P1	253
56-8091	633	57A1-88		57A6-18	51+53	57A148-12	51	57C6-5	641	62A01	R0050
56-8092	632	57A1-89		57A6-19	736	57A149-12	802	57C6-6	254	62A02	R0053
56-8093	134	57A1-90		57A6-20	736	57A150-12	802	57C6-6A	254	62A04	R0054
56-8094	R2502	57A1-91		57A6-21	641	57A151-6	50	57C6-6B	254	62A05	R0053
56-8095	135	57A1-92		57A6-22	254	57A152-12	50	57C6-6C	254	62J2	R0052
56-8096	Z0215	57A1-93		57A6-23	230	57A153-9	53	57C6-8	230/232	62R2	R0132
56-8097	R0054	57A1-94		57A6-24	240	57A155-10	240	57C6-9	54	62R2R	R0162
56-8098	52	57A1-95		57A6-25	254	57A156-9	737	57C6-11	54	63J2	R0053
56-8099	238	57A1-96		57A6-26	242	57A157-9	715	57C6-12	232	63N1	740
56-8100	641	57A1-97		57A6-27	736	57A158-10	240	57C6-15	716	63Z6	Z3512
56A1-1	C6001	57A1-98		57A6-28	51+53	57A159-12	57	57C6-19	54	63Z6A	Z3512
56C1-1	C6001	57A1-99		57A6-29	736	57A160-8	723	57C6-32	53	64J2	R0053
56D3-1	C6063P	57A1-100		57A6-30	736	57A162-12	714	57C6-33	716	64N1	707
56D4-1	C6070P	57A1-101		57A6-31	242	57A163-12	242	57C10-1	709	64R2	R0134
56D5-1	C6071P	57A1-102		57A6-32	54	57A164-4	719	57C10-2	709	64T1	254
56D6-1	C6057P	57A1-103		57A6-33	716	57A166-12	724	57C12-1	712	65-1	735
56DB-1	C6073P	57A1-104		57A7-1	632	57A167-9	243	57C12-2	712	65-085013	R0054
56D9-1	C6060P	57A1-105		57A7-2	56	57A168-9	242	57C12-4	54	65A	57
56P2	2	57A1-106		57A7-3	S0004	57A169-12	801	57C15-1	728	65B	57
56P3	3	57A1-107		57A7-4	S0004	57A170-9	726	57C15-2	728	65C	57
56P4P	3	57A1-108		57A7-5	S0004	57A171-9	717	57C15-3	57	65D	57
57-27	R0054	57A1-109		57A7-6	S0004	57A174-8	715	57C15-4	57	65E	57
57-42	R0050	57A1-110		57A7-7	S0004	57A175-12	57	57C15-5	717	65F	57
57A1-1	134	57A1-111		57A7-8	S3021	57A177-12	718	57C20-1	720	65J2	R0054
57A1-2	134	57A1-112		57A7-9	736	57A178-12	715	57C24-2	50	65T1	254
57A1-3	641	57A1-113		57A7-10	736	57B1-56	254	57C24-3	50	65Z6	Z3514
57A1-4	641	57A1-114		57A7-15	736	57B2-3	254	57C28	591	65Z6A	Z3514
57A1-5	641	57A1-115		57A7-17	736	57B2-4	250	57C142-4	50	66-2246	R0050
57A1-6	641	57A1-116		57A7-18	736	57B2-11	637	57C164-4	719	66-8023	633
57A1-7	632	57A1-117		57A7-20	736	57B2-12	639	57D1-11	254	66-8033	633
57A1-8	636	57A1-118		57A8-1	230	57B2-13	637	57D1-22	636	66-8504	R0050
57A1-9	3	57A1-119		57A8-2	230	57B2-14	637	57D1-23	3	66J2	R0054
57A1-10	254	57A1-120		57A8-10	709	57B2-15	254	57D1-26	254	66R2	R0136
57A1-11	631	57A1-121		57A10-2	709	57B2-19	638	57D1-56	254	66X20	134
57A1-12	636	57A1-122		57A10-2	709	57B2-22	637	57D1-80	253	66X21	R9001
57A1-13	638	57A1-123	S3021	57A11-1	53	57B2-23	254	57D1-84	253	66X23	R0053
57A1-14	254	57A1-124		57A12-1	712	57B2-23	254	57D1-88	253	66X25	R9001
57A1-15	635	57A2-1		57A12-2	706	57B2-24	633	57D1-86	633	66X218	R9001
57A1-16	3	57A2-2		57A12-3	241	57B2-25	632	57D1-120	254	66X0020-000	135
57A1-17	238	57A2-3		57A12-4	243	57B2-29	636	57D1-121	254	66X0020-001	135
57A1-18	632	57A2-4		57A12-5	241	57B2-30	636	57D1-123	54	66X0023-001	R0054
57A1-19	238	57A2-5		57A14-1	736	57B2-31	636	57D1-124	54	66X0023-003	R0054
57A1-20	238	57A2-6		57A14-2	736	57B2-32	51+53	57D1-124	54	66X0023-005	R0054
57A1-21	238	57A2-7		57A14-3	S3021	57B3-5	238	57D14-1	232	66X0023-008	R0054
57A1-22	3	57A2-8		57A15-1	728	57B6-6	238	57D14-1	736	66X0025-000	R0054
57A1-23	3	57A2-9		57A15-2	728	57B21-2	56	57D14-2	736	66X0025-001	R9001
57A1-24	3	57A2-10		57A15-3	57	57B21-4	56	57D14-3	736	66X0025-001	R9001
57A1-25	3	57A2-11		57A15-4	57	57B21-5	56	57D19-1	716	66X0028-008	R0054
57A1-26	250	57A2-12		57A15-5	717	57B21-6	709	57D19-2	716	66X0036-001	R0056
57A1-27	250	57A2-13		57A16-1	736	57B21-7	709	57D19-3	708	66X0037-001	R0054
57A1-28	632	57A2-14		57A19-1	716	57B21-8	728	57D68	254	66X0038-001	R0054
57A1-29	134	57A2-15		57A19-2	716	57B21-10	50	57D107-8	53	66X0039-001	135
57A1-30	3	57A2-16		57A20-1	720	57B102-4	709	57D132-9	636	66X0041-001	R0054
57A1-31	3	57A2-17		57A21-1	56	57B103-4	720	57D141-4	709	66X0043-001	134
57A1-32	3	57A2-18		57A21-2	56	57B104-8	712	57D156	254	66X0044-001	R0050
57A1-33	636	57A2-19		57A21-3	56	57B105-12	736	57D164-4	719	67-1000-00	R0053
57A1-34	3	57A2-20		57A21-4	56	57B106-12	715	57D168	2	67-1003-00	R0054
57A1-35	639	57A2-21		57A21-5</							

HEP Semiconductor Replacement Cross-References

DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
73A01	631	79P1	716	86-116-2	253	86A324	725	93A71-1	R0054	99S025	726
73A02	632	80AS	R0055	86-123-2	54	86A327	737	93A75-1	R0054	99S031	728
73N1	54	80H	R0055	86-126-2	254	86A332	704	93A76-1	R2502	99S032	729
73N1B	729	80H3	R0137	86-127-2	232	86A333	S3021	93A77-1	134	99S033	736
74A01	632	80P1	254	86-128-2	254	86A338	703	93A78-1	R0054	99S034	S0001
74A02	632	81-27123100-3	R0054	86-129-2	254	86A339	702	93A79-6	R0052	99S035	736
74A03	630	81-27123150-8	134	86-130-2	254	86A349	55	93A80-1	Z0415	99S036	736
74P1	57	81-27123300-3	R0054	86-131-2	253	86A406	R0092	93A83-1	135	99S037	55
74P1M	242	81-27125140-7	723	86-132-2	253	86A408	Z0422	93B2-1	R0054	99S038	738
75E1	R0052	81-27125160-5	724	86-133-2	253	86A409	Z0402	93B5-3	R9001	99S039	717
75E2	R0052	81-27125270-2	724	86-135-2	2	86A410	R0051	93B5-4	R9001	99S041	F2004
75E3	R0053	81-27125300-7	735	86-138-2	56	86B332	S7000	93B5-5	R9001	99S045	F2005
75E4	R0053	81-27125530-9	724	86-139-2	54	86B339	702	93B5-6	R9001	99S047	240
75E5	R0054	81-27126130-7	232	86-141-2	254	86C04	246	93B5-8	R9001	99S053	C6056P
75E6	R0054	81-46123001-3	134	86-142-2	232	86X6-1	54	93B5-9	R9001	99S47	641
75E7	R0055	81-46123002-1	R2500	86-143-2	721	86X6-4-518	54	93B5-10	R9001	99S45	641
75E8	R0055	81-46123004-7	R0054	86-146-2	232	86X7-2	54	93B8-1	135	99S07	641
75E05	R0050	81-46123005-4	R0050	86-147-2	232	86X7-4	721	93B25-1	134	001	310
75E10	R0056	81-46123006-2	135	86-158-2	54	86X7-5	53	93B25-2	134	001-006-000	R0053
75N1	712	81-46125001-1	638	86-159-2	254	86X7-6	721	93B25-3	135	001-0072-00	R9001
75R1B	R0052	81-46125002-9	632	86-160-2	254	86X7-6013	721	93B27-1	135	001-0077-00	R0053
75R2B	R0052	81-46125003-7	633	86-163-2	3	86X8-1	54	93B27-2	135	001-0081-00	R0050
75R3B	R0053	81-46125004-5	632	86-171-2	54	86X8-2	54	93B28-1	134	001-0082-00	Z0215
75R4B	R0053	81-46125005-2	238	86-173-2	two 230	86X8-3	54	93B29-12	Z0415	002-009501	737
75R5B	R0054	81-46125006-0	56	86-188-2	56	86X8-4	50	93B39-13	Z0415	002-009502	737
75R6B	R0054	81-46125007-8	56	86-199-2	738	86X46	717	93B41-2	135	002-009600	738
75R7B	R0055	81-46125009-4	254	86-219-2	716	86X47	57	93B42-7	R0054	002-009601	56
75R9B	R0056	81-46125010-2	254	86-237-2	54	86X006-001	729	93B51-3	R0054	002-009800	242
75R10B	R0056	81-46125011-0	254	86-253-2	3	86X006-001	729	93B52-1	R0054	002-009900	243
75Z9.1	Z0412	81-46125012-8	50	86-255-2	54	86X007-004	720	93B52-2	R0055	002-010100	232
75Z9.1A	Z0412	81-46125013-6	56	86-276-2	242	86X008-001	721	93B53-2	177	002-010300	51
75Z9.1B	Z0412	82-4	R0054	86-277-2	721	86X0017-001	251	93B58-1	R0054	002-010400	725
75Z9.1C	Z0412	83-1056	230/232	86-278-2	3	86X0022-001	721	93B60-3	R0054	002-010500	57
75Z11	Z0414	83P1	57	86-279-2	3	86X0024-001	591	93B65-1	R0056	002-010600	721
75Z11A	Z0414	83P1B	57	86-280-2	3	86X0027-001	591	93B71-1	R0602	002-010700	716
75Z11B	Z0414	83P1M	57	86-281-2	253	86X0029-001	56	93C5-10	R9001	002-010800	736
75Z11C	Z0414	83P2	57	86-282-2	253	86X0030-001	230	93C8-1	135	002-010900	716
75Z12	Z0415	83P2AA	57	86-291-2	728	86X0030-100	two 230	93C25-2	134	002-012100	242
75Z12A	Z0415	83P2B	57	86-327-2	243	86X0031-001	737	93C25-3	135	002-012200	243
75Z12B	Z0415	83P2M	57	86-339-2	243	86X0031-002	737	93C26-7	R9001	002-012300	246
75Z12C	Z0415	83P2N	57	86-340-2	242	86X0031-003	737	93C26-9	R9001	002-012400	245
75Z13	Z0416	83P3	57	86-342-2	243	86X0033-001	643	93C27-1	134	002-012500	134
75Z13A	Z0416	83P3B	57	86-344-2	245	86X0034-001	720	93C39-8	Z0423	002-012600	S3027
75Z13B	Z0416	83P3M	717	86-348-2	638	86X0035-001	736	93C39-13	Z0415	002-012700	230
75Z13C	Z0416	84	230	86-370-2	235	86X0036-001	52	93C42-7	R0052	002-012800	715
75Z14	Z0417	84B	625	86-370-2BLU	624	86X0037-001	641	93C52-1	R0054	003-002000	R9001
75Z14A	Z0417	84C01	244	86-370-2GRN	623	86X0037-002	254	93C53-2	R0052	003-004200	134
75Z14B	Z0417	85C04	728	86-370-2DRN	628	86X0037-100	254+641	93C55-1	134	003-006700	135
75Z14C	Z0417	86-1-3	R0050	86-370-2V IO	624	86X0038-001	720	93C59	R9001	003-007500	135
75Z15	Z0418	86-9-1	R9001	86-370-2Y EL	623	86X0040-001	721	93C60-5	R0602	003-009000	135
75Z15A	Z0418	86-10-1	135	86-381-2	719	86X0041-001	242	93C64-1	134	003-009100	Z0418
75Z15B	Z0418	86-12-1	R0700	86-386-2	50	86X0042-001	246	93C69-9	R0054	003-009200	135
75Z15C	Z0418	86-14-1	134	86-392-2	254	86X0042-002	245	93O27-1	135	003-009400	R0050
75Z27	Z0424	86-15-1	134	86-396-2	246	86X0042-100	245+246	93K2-1	R9001	003-009600	135
75Z27A	Z0424	86-18-1	R9001	86-399-2	54	86X0043-001	56	93P1AA	52	003-009700	Z0415
75Z27B	Z0424	86-18-1-A	R9001	86-400-2	243	86X0044-001	57	93SE165	247	003-009900	R0054
75Z27C	Z0424	86-20-1	135	86-406-2	54	86X0045-001	723	93Z43-4	R7000	003-010000	Z0415
75Z33	Z0426	86-22-1	134	86-407-2	54	86X0046-001	717	94N1	726	004-002900	R9001
75Z33A	Z0426	86-23-1	R0050	86-416-2	56	86X0047-001	57	94N1B	726	004-003300	R0054
75Z33B	Z0426	86-27-1	R0053	86-417-2	721	86X6029-001	56	94N1V	726	004-003400	R0054
75Z33C	Z0426	86-31-1	Z0415	86-419-2	57	87-27125100-1	238	96-5022-01	R0052	004-003500	R0054
75Z56	Z0432	86-32-1	R0053	86-420-2	721	87B02	245	96-5023-01	R0053	004-003600	R0054
75Z56A	Z0432	86-34-3	R0053	86-421-2	238	88B7258	C6062P	96-5192-01	232	004-003700	R0054
75Z56B	Z0432	86-35-1	Z0412	86-422-2	S3023	91A	723	96-5284-01	247	004-003900	R0054
75Z56C	Z0432	86-35-3	R0054	86-423-2	S3027	91A01	91A01	96N (Wards)	738	004-004000	R0092
75Z62	Z0433	86-36-2	243	86-428-9	2	91A02	R0053	97AB3	240	006B2M	C6056P
75Z62A	Z0433	86-37-1	Z0412	86-431-9	242	91A03	R0054	98-1	230	0125	724
75Z62B	Z0433	86-37-2	2	86-440-2	738	91A04	R0050	98-2	631	013-005002-06	C6007
75Z62C	Z0433	86-41-1	R0602	86-441-2	738	91A05	R0054	98-3	631	013-005005-6	C6011
75Z82	Z0436	86-45-1	135	86-442-2	56	91A06	R0055	98-3	631	013-005007-6	C6011
75Z82A	Z0436	86-46-2	253	86-449-2	3	91A07	R0056	98-4	631	014-556	233
75Z82B	Z0436	86-47-2	253	86-452-2	243	91A08	R0052	98-5	631	014-611	716
75Z82C	Z0436	86-48-2	253	86-457-2	53	91B	724	98-6	631	014-614	704
75Z110	Z0439	86-49-1	135	86-458-2	53	91BGRN	724	98-7	631	014-652	715
75Z110A	Z0439	86-51-3	R0054	86-459-2	51	91C	725	98-302	175	014-698	55
75Z110B	Z0439	86-52-1	R0050	86-460-2	53	91D	726	98A12518	R0050	014-784	728
75Z110C	Z0439	86-56-3	R0054	86-461-2	53	91E	726	99AT6	254	014-862	730
76	637	86-58-1	Z0412	86-462-2	53	91F	726	99B5	254	015-002	R0053
76-1	S3021	86-59-1	R0050	86-463-2	243	92-1	135	99BA6	253	015-006	R0053
76-12965-26	134	86-59-3	R0053	86-463-3	243	92N1	56	99BE6	253	016B12	728
76-13570-39	56	86-60-1	134	86-464-2	F2007	92N1B	56	99L6	641	016B810	728
76-13570-59	56	86-61-1	Z0222	86-465-2	50	93-1	R0602	99P1	51	016B812	728
76-13570-65	R0700	86-63-3	R0053	86-467-2	50	93A5-9	R9001	99P1M	51	017E824	738
76-13570-85	R0700	86-64-1	135	86-467-2	53	93A5-10	R9001	99P3AA	254	018-00001	715
76-13848-23	R0700	86-65-1	Z0415	86-475-2	51	93A8-1	135	99S07	641	018-00002	57
76-13866-19	720	86-65-3	R0054	86-476-2	633	93A25-1	134	99S001	625	018-00003	55
76-14196-1	134	86-66-1	Z0421	86-480-9	643	93A25-2	134	99S002	632	018-00004	246
76N1	54	86-67-9	R0054	86-481-1	56	93A25-3	135	99S003	631	018-00005	245
76N1B	723	86-68-3	R0050	86-481-2	714	93A25-10	R9001	99S004	238	018-00006	R0052
76N1M	54	86-70-1	R0052	86-482-2	51	93A27-1	134	99S005	632	018-00007	R0052
76N2	54	86-72-3	R0050	86-483-2	56	93A38-1	134	99S006	635	018-00009	R0052
76N2B	725	86-73-1	Z0230	86-483-3	56	93A39-8	Z0423	99S007	635	018B	719
76N3B	725	86-75-3	R0054	86-484-2	54	93A39-11	Z0423	99S010	632	019-00009	55
77	637	86-77-2	254	86-485-2	56	93A39-12	Z0415	99S011	633	019-00010	55
77A01	R0602	86-78-2	254	86-486-2	56	93A39-13	Z0415	99			

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DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
020-00012	135	103-44	134	111N4	247	121-60	641	121-235	253	121-353	635
020-00023	640	103-47	R2503	111P3	248	121-61	250	121-236	253	121-354	253
020-00024	53	103-48	R0052	111Z4	Z0414	121-62	3	121-237	253	121-356	3
020-00025	53	103-51	R0050	112-2	716	121-63	638	121-238	two 641	121-357	3
020-00026	53	103-65	R0700	112-7	715	121-64	250	121-239	253	121-358	3
020-00027	53	103-73	134	112-8	717	121-65	3	121-240	641	121-359	635
020-00028	56	103-74	134	112-10	717	121-66	3	121-240-X	253	121-360	633
020-00030	135	103-76	Z0216	112-001	253	121-67	638	121-241	638	121-361	712
020-00031	R2503	103-79	134	112-002	2	121-68	254	121-242	636	121-362	633
022-3504-040	739	103-81	Z0214	112-003	254	121-69	254	121-243	636	121-363	236
022-3504-060	636	103-82	R0053	112-004	254	121-70	641	121-244	636	121-364	S0002
022-3505-910	638	103-83	Z0416	112-001 0-102	R0053	121-71	641	121-245	253	121-365	641
022-3511-770	3	103-84	Z0417	113N1AG	S9100	121-72	253	121-246	two 253	121-366	S0002
022-3511-780	3	103-85	Z0222	113N2	S9100	121-73	3	121-247BLK	641	121-367	50
022-3511-790	3	103-86	R0050	115Z4	Z0225	121-74	3	121-247VIL	641	121-368	632
022-3640-253	253	103-87	134	117-5	53	121-75	3	121-247WHT	641	121-369	736
023	241	103-88	R0134	119	737	121-76	3	121-248BLK	two 641	121-370	235
024	702	103-90	two 134	120-1	725	121-78	3	121-248BLU	two 641	121-371	624
025	704	103-92	R0604	120-2	721	121-79	253	121-248VIL	two 641	121-372	630
025-10000B	R0700	103-96	Z0416	120-3	735	121-80	253	121-256	635	121-373A	two 238
025-100011	R2502	103-98	R0050	120-8	721	121-81	253	121-257	638	121-373B	two 238
025-100012	709	103-99	R0604	120-00-19	253	121-82	253	121-258	3	121-373BLU	two 238
025-100013	56	103-101	R9001	120-190	254	121-83	253	121-259	3	121-373BRN	two 238
025-100014	738	103-102	two 135	120-001190	639	121-84	253	121-260	3	121-373C	two 238
025-100015	56	103-104	R2501	120-001192	253	121-85	253	121-261	2	121-373D	two 238
025-100017	730	103-105	Z0423	120-001195	254	121-86	253	121-262	2	121-373E	two 238
025-100018	729	103-111	R0054	120-001195	631	121-87	253	121-263	2	121-373F	two 238
025-100026	56	103-112	R3012	120-001198	75	121-88	253	121-266	250	121-373G	two 238
025-100027	135	103-114	134	120-002012	253	121-89	253	121-267	250	121-373GRN	two 238
025-100028	R0050	103-131	R0604	120-002013	250	121-90	253	121-268	3	121-373H	two 238
025-100029	R0050	103-132	R0602	120-002014	250	121-91	250	121-269	3	121-373I	two 238
025-100030	50	103-133	R2501	120-002213	2	121-92	250	121-270BLK	232	121-373J	two 238
025-100031	254	103-135	Z0427	120-002216	2	121-93	250	121-270BLU	232	121-373K	two 238
025-100033	730	103-136	Z0418	120-002513	637	121-94	250	121-270BRN	232	121-373L	two 238
025-100034	729	103-137	Z0422	120-002515	637	121-95	250	121-270GRN	232	121-373M	two 238
025-100035	R0054	103-140	Z0214	120-002518	3	121-96	250	121-270ORN	232	121-373N	two 238
025-100036	709	103-141	R0050	120-002520	253	121-100	641	121-270RED	232	121-373O	two 238
025-100037	709	103-142	R0051	120-002521	250	121-101	3	121-270VIL	232	121-373ORN	two 238
025-100038	709	103-144	Z2526	120-002656	637	121-102	3	121-270YEL	232	121-373P	two 238
025-100039	R2502	103-145	R0050	120-002748	250	121-103	3	121-271	232	121-373Q	two 238
025-100040	729	103-146	R2501	120-003147	R0052	121-104	3	121-272	253	121-373RED	two 238
025B	726	103-149	R0600	120-003148	R0053	121-105	3	121-273	251	121-373VIL	two 238
025BYEL	725	103-150	Z0234	120-003149	R0050	121-106	250	121-274	251	121-373YEL	two 238
026-100028	230	103-151	Z2530	120-003150	642	121-107	250	121-275	251	121-374	251
027-000296	R0053	103-157	Z0445	120-003151	75	121-113	638	121-276	641	121-375	251
027-000306	R0053	103-159	R0051	120-004048	640	121-120	254	121-277	641	121-377	709
027-000312	R0053	103-162	R9001	120-004061	R0053	121-128	639	121-278	53	121-378	709
027-000326	R9001	103-176	R2501	120-004492	638	121-132	3	121-279	54	121-379	709
028-300-226	R9001	103-177	R2503	120-004493	254	121-134	638	121-286	729	121-380	709
031A	72B	103-178	R0600	120-004494	254	121-135	638	121-287	739	121-381	638
033-3	736	103-185	R0052	120-004495	254	121-136	638	121-288	53	121-382BLU	232
033A	736	103-186	Z0228	120-004496	56	121-137	636	121-289	639	121-382BRN	232
034A	S0001	103-189	R2503	120-004497	56	121-138	638	121-290	250	121-382GRN	232
037	55	103-192	two 134	120-004498	135	121-139	638	121-291	253	121-382VIL	232
038	738	103-193	R3012	120-004499	135	121-145	639	121-292	638	121-382YEL	232
039	717	103-194	Z0410	120-004503	R0050	121-146	639	121-293	638	121-383	3
041A	F2004	103-196	R0604	120-004629	135	121-147	639	121-294	636	121-384	2
045-1	55	103-201	R0700	120-004722	3	121-148	635	121-295	636	121-385	3
045-2	55	103-202	R0600	120-004723	56	121-150	635	121-296	636	121-388	238
046-1	245	103-203	R0050	120-004728	633	121-151	254	121-297	3	121-389	232
047-1	246	103-206	Z2551	120-004877	R0052	121-152	2	121-298	3	121-395	633
051-003	R0052	103-207	Z0254	120-004878	R0054	121-153	639	121-299	3	121-396	251
051-0012-00	595	103-208	Z0255	120-004879	Z0412	121-154	639	121-300	251	121-397	635
051-0020	R0052	103-212	Z0423	120-004880	53	121-160	253	121-301	two 251	121-398BL	two 624
051-0024	Z0411	103-214	R0604	120-004881	S0004	121-161	3	121-302	641	121-398BLU	two 624
051-0046	738	103-215	R3100	120-004882	53	121-162	3	121-303	720	121-398GR	two 624
051-0047	729	103-216	R0053	120-004883	53	121-163	250	121-304	637	121-398GRN	two 624
051-0049	721	103-217	R0050	120-004884	S3021	121-164	two 250	121-305	633	121-398O	two 623
051-0062	3	103-218	134	120-004887	642	121-165	641	121-306	634	121-398ORN	two 623
051-0063	3	103-219	R2503	120-004888	641	121-166	641	121-307	633	121-398RD	two 232
051-0079	636	103-221	134	120BBLU	721	121-167	632	121-308BLU	624	121-398RED	two 232
051-0107	716	103-222	R0050	120P1	52	121-170	716	121-308GRN	624	121-398YEL	two 232
051-0155	54	103-227	R0053	120P1M	52	121-179	2	121-308ORN	623	121-399BL	two 232
051-0156	54	103-228	R0604	121-1	717	121-180	3	121-308RED	230	121-399	251
051-0157	S3001	103-231	Z0419	121-1RED	717	121-181	3	121-308YEL	623	121-400	238
100D10	R0056	103-235	four R2503	121-6	641	121-184	two 633	121-309	251	121-401BLK	two 238
100N1	709	103-236	Z0426	121-7	641	121-185	3	121-310	251	121-401BRN	two 238
100N1A5	53	103-237	Z0426	121-8	641	121-186	639	121-311A	two 633	121-401ORN	two 238
100N1AS	709	103-238	Z2548	121-9	631	121-187	638	121-311B	two 633	121-401RED	two 238
100N1P	709	103P (Wards)	51	121-10	631	121-189	250	121-311C	two 630	121-401YEL	two 238
100N3	720	104	712	121-11	253	121-190	253	121-311D	two 630	121-403A	two 238
100R1B	R0052	104-8	712	121-12	253	121-191	254	121-311E	two 632	121-403BRN	two 238
100R2B	R0052	104T2	247	121-14	253	121-192	250	121-311F	two 632	121-403BLU	two 238
100R3B	R0053	105 (Admiral)	736	121-15	641	121-193GRN	two 253	121-312	638	121-403BRN	two 238
100R4B	R0053	105-02	135	121-16	641	121-193RED	two 253	121-313	638	121-403C	two 238
100R5B	R0054	105-03	135	121-17	641	121-193WHT	two 253	121-314	638	121-403D	two 238
100R6B	R0054	105-12	736	121-19	254	121-193YEL	two 253	121-315	240	121-403E	two 238
100R7B	R0055	106-12	716	121-21	641	121-200	739	121-319	250	121-403F	two 238
100R9B	R0056	106P1	232	121-22	641	121-205	633	121-320	250	121-403G	two 238
100R10B	R0056	106P1T	232	121-24	641	121-206	253	121-321	720	121-403GRN	two 238
101-1	54	106RED	716	121-25	641	121-207	253	121-327	251	121-403H	two 238
101A	3	107-8	728	121-26	641	121-208	253	121-328GRN	two 250	121-403I	two 238
101B	3	107BRN	728	121-27	253	121-219	251	121-328RED	two 250	121-403J	two 238
101M	3	107N2	243	121-33	641	121-220	250	121-328WHT	two 250	121-403K	two 238
102-4	709	108-1	3	121-34	253	121-221	253	121-328YEL	two 250		

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DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
121-414	3	121-542	636	121-725	715	121-915	S0004	130-40315	715	157P4	S3027
121-415	3	121-5428	636	121-726	247	121-916	S0002	130-40317	55	157T1	3
121-416	630	121-543	251	121-730	728	121-924	721	130-40318	721	157YEL	715
121-417	716	121-544	630	121-731	802	121-925	719	130-40349	643	158-10	240
121-418BLU	two 624	121-546	719	121-732	719	121-926	S5007	130-40357	55	158P1M	242
121-418GRN	two 624	121-547	56	121-733	729	121-927	S5003	130-40421	734	159T1	3
121-418ORN	two 232	121-552	3	121-734	715	121-928	55	130-40456	238	160T1	3
121-418RED	two 232	121-553	639	121-735	729	121-929	724	130 (Sears)	721	161T1	3
121-418VIL	two 624	121-554	639	121-737	S0001	121-930	724	130ORN	722	161T2	56
121-418YEL	two 623	121-555	639	121-741	720	121-931	728	130VIO	716	162J2	RO052
121-419	716	121-556	638	121-742	720	121-933	708	131 (Sears)	56	162T1	3
121-420	251	121-557	641	121-744	S0004	121-943	722	131N2	S3023	162T2	56
121-421A	two 238	121-558	two 641	121-745	55	121-944	719	131N2G	S0001	163J2	RO053
121-421B	two 238	121-560	718	121-746	51	121-945	722	132-3	245	164J2	RO053
121-421BLU	two 238	121-560	709	121-748	719	121-946	722	132-5 (RCA)	245	165J2	RO054
121-421BRN	two 238	121-581	736	121-750	F2004	121-953	F2004	132-023	241	166J2	RO054
121-421C	two 238	121-582GRN	two 240	121-751	55	121-956	245	132-024	702	167-9	243
121-421O	two 238	121-582RED	two 240	121-752	S9100	121-957	246	132-185	709	167J2	RO055
121-421E	two 238	121-583	720	121-753	53	121-966	S5003	132N1	243	167N1	53
121-421F	two 238	121-584	624	121-755	244	121-975	729	133-1	S3023	168-9	242
121-421G	two 238	121-584BRN	230	121-756	802	121-976	245	134-1	S3027	168N1	729
121-421GRN	two 238	121-584GRN	624	121-758	740	121-977	246	134P1	716	170-9	726
121-421H	two 238	121-584ORN	230	121-761	638	121-1032	253	134P1A	715	171	714
121-421I	two 238	121-584RED	230	121-762	641	121-1033	254	134P1AA	716	171-9	717
121-421J	two 238	121-584YEL	230	121-764	730	121-1034	254	134P1M	716	171-015-9-001	230
121-421K	two 238	121-585	56	121-765	716	121-1035	254	134P4AA	716	171-016-9-001	642
121-421L	two 238	121-587	729	121-766	736	121-1036	254	134P4M	716	172-003-9-001	247
121-421M	two 238	121-594	56	121-767	55	121-1124	232	135ORN	736	172-006-9-001	S3070
121-421N	two 238	121-600	729	121-768	736	121-1134	232	136P1	51	172-007-9-001	S3001
121-421O	two 238	121-601	3	121-770	two S5003	121-1330	253	136RED	738	172-008-9-001	S3001
121-421ORN	two 238	121-602	715	121-772	two S5003	121-1350	253	137 (Admiral)	52	172-009-9-001	S3001
121-421P	two 238	121-603	715	121-773	736	121-1360	253	137-684	R0052	172-010-9-001	701
121-421Q	two 238	121-604	719	121-774	716	121-1390	253	137-718	R0052	172-011-9-001	245
121-421REO	two 238	121-610	738	121-775	S0004	121-1400	253	137-737	R0092	173-1 (SvI)	801
121-421VIL	two 238	121-612	719	121-778	729	121G3019	50	137-759	Z0418	173A3963	230
121-421YEL	two 238	121-613	719	121-782	F2004	121G3020	50	137-824	134	173A4419-2	232
121-425A	two 238	121-614	719	121-783	F2004	121U2AT	R2001	137-828	R0052	173A4420-5	232
121-425B	two 238	121-615	716	121-784	F2004	122-1	729	138-4	730	173A4422-1	232
121-425BLU	two 238	121-616	719	121-785	F2004	122-2	726	139-4	718	173A4424	254
121-425BRN	two 238	121-617	723	121-786	F2004	122-229	253	139N1	729	173A4469	232
121-425C	two 238	121-619	723	121-787	F2004	122-A484	709	141-003	134	174-002-9-001	641
121-425O	two 238	121-620	55	121-793	232	122GRN	715	142-002	R0050	175-1G036	721
121-425E	two 238	121-622	723	121-808	245	122YEL	715	142-006	R0050	175-006-9-001	254
121-425F	two 238	121-623	310	121-818	715	124-1	232	142N1	714	175-007-9-001	632
121-425G	two 238	121-624	715	121-819	736	124N1	641	142N3	736	175-008-9-001	633
121-425GRN	two 238	121-625	719	121-821	740	124N16	56	142N4	736	176-003	50
121-425H	two 238	121-626	719	121-822	S3021	124ZN	601	142N5	54	176-003-9-001	50
121-425I	two 238	121-627	719	121-823	729	124ZP	600	144-4	S3021	176-005	50
121-425J	two 238	121-630	720	121-824	720	125-4	234	144N1	714	176-005-9-001	50
121-425L	two 238	121-632	634	121-825	738	125-402	625	144N1G	244	176-006	54
121-425M	two 238	121-633	634	121-826	F2004	125-403	624	144N2	S3021	176-006-9-001	50
121-425N	two 238	121-634	632	121-827	718	125-406	G6001	145-118	Z0412	176-007	50
121-425O	two 238	121-635	633	121-829	707	125-410	703	145-130	Z0416	176-007-9-001	50
121-425ORN	two 238	121-636A	two 631	121-830BLU	232	125P1	3	145-689	Z0408	176-008-9-001	721
121-425P	two 238	121-636B	two 631	121-830GRN	232	125P116	57	145N1	709	176-014-9-001	56
121-425Q	two 238	121-636C	two 632	121-830YEL	232	126-7	R0050	145N1P	709	176-016-9-001	53
121-425REO	two 238	121-636O	two 632	121-830ORN	232	126-12	736	146O-1	two R0602	176-017-9-001	53
121-425VIL	two 238	121-637	728	121-830RED	232	126N2	641	146N3	736	176-018-9-001	S3001
121-425YEL	two 238	121-638	729	121-831	740	126P1	254	146T1	230/232	176-024-9-001	50
121-426	3	121-6388	729	121-834	735	127	736	147N1	721	176-025-9-001	55
121-427	636	121-639	728	121-836	735	127ZN	601	147P2	51	176-026-9-001	56
121-428	3	121-640BLU	254	121-840	56	127ZP	600	147T1	230/232	176-029-9-001	55
121-429	3	121-640GRN	254	121-841	S0004	128	56	148N1	243	176-029-9-002	53
121-430	55	121-640ORN	254	121-843	S0005	128N2	53	148N2	726	176-029-9-003	S3001
121-431BRN	two 736	121-640RED	254	121-844	736	128WHT	737	149N1	245	176-031-9-001	53
121-431ORN	two 736	121-640YEL	254	121-845	715	129	56	149N4	245	176-031-9-002	730
121-431REO	two 736	121-641BLU	641	121-846	56	129-4	56	149P1	246	177-001	51
121-431YEL	two 736	121-641GRN	641	121-847	709	129-5	230/232	149P3	246	177-001-9-001	51
121-432	636	121-641ORN	641	121-848	56	129-6	230/232	150 (Olson)	802	177-006-9-001	52
121-433	730	121-641RED	641	121-849	56	129-7	230/232	150-001-9-005	135	177-006-9-002	51
121-434	726	121-641YEL	641	121-850	724	129-8	632	150-001-9-007	134	177-007-9-001	52
121-435	730	121-671	736	121-851	56	129-9	230/232	150-002-9-001	135	177A07	C6015
121-436	240	121-675	726	121-853	S5001	129-14	721	150N1	709	180T2A	247
121-437	630	121-676	736	121-854	S5003	129-16	736	150R18	R0092	180T2B	247
121-441	716	121-677	726	121-855	56	129-30	641	151 (Olson)	801	180T2C	247
121-442	708	121-678GRN	53	121-856	736	129-31	254	151-002-9-001	R0052	181-000100	C6001
121-444	715	121-678RED	53	121-857	56	129-34	632	151-006-9-001	Z0426	181-000200	594
121-445	714	121-678YEL	53	121-858	802	1298RN	735	151-011-9-001	R0053	182-009-9-001	802
121-446	715	121-679GRN	51	121-861	715	129N1	718	151-015-9-001	134	182-014-9-003	801
121-447	736	121-679RED	51	121-862	729	130	724	151-018-9-001	R0050	182-015-9-001	802
121-448	736	121-679YEL	51	121-863	728	130-104	232	151-021-9-001	R0052	184-1G033	310
121-449	707	121-680	716	121-865	715	130-138	709	151-022-9-001	R0600	189	720
121-450	736	121-681	716	121-871	729	130-144	S3008	151-023-9-001	R0053	200 (Olson)	Z0402
121-451	240	121-682	716	121-872	56	130-149	736	151-030-9-001	R0050	200-011	243
121-452	740	121-683	716	121-873	S5007	130-150	75	151-030-9-002	Z0219	200-018	241
121-453	734	121-684	738	121-874	S5003	130-150-1	S3008	151-030-9-003	Z0408	200-052	716
121-462	709	121-687	734	121-875	715	130-152	709	151-030-9-004	R0050	200-053	802
121-470	734	121-692	720	121-876	722	130-172	75	151-030-9-005	R0052	200-054	590
121-471	709	121-695	736	121-877	729	130-174	75	151-030-9-006	R0600	200-055	56
121-472	720	121-697	2	121-878	736	130-185	709	151-031-9-001	Z0408	200-056	56
121-480	719	121-698	3	121-879	716	130-220	709	151-031-9-001	R0602	200-057	55
121-481	720	121-699	715	121-880	S5001	130-240	709	151-032-9-002	R0600	200-058	50
121-482	720	121-701	729	121-881	243	130-245	75	151-032-9-004	R0602	200-064	802
121-483	720	121-702	723	121-883	721	130-30189	R0054	151N1	56	200R18	

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DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
210 (Olson)	Z0417	229-5100-228	56	260P17503	733	297V038H07	253	324-0079	638	353-9310-001	724
211 (Olson)	Z0418	229-5100-231	134	260P17601	732	297V038H09	253	324-0083	638	353-9314-001	724
211.24	Z0414	229-5100-232	RO053	260P17602	732	297V040H01	254	324-0085	632	353-9315-001	724
212 (Olson)	Z0424	229-5100-233	RO054	260P17603	732	297V040H08	254	324-0086	637	354-9101-002	RO052
212.21	RO050	229-5100-235	RO054	260P17701	729	297V040H10	254	324-0087	637	354-9101-006	RO050
212.26	RO094	233 (Sears)	243	260P17702	719	297V040H11	254	324-0089	253	354-9105-001	Z0410
212.27	RO094	235	253	260P19208	740	297V040H12	254	324-0090	250	359A	RO050
212.31	176	250 (Olson)	RO054	260P21002	635	297V040H13	254	324-0091	254	359B	RO052
212.35	RO051	250R18	RO092	260P21102	S3020	297V040H15	230/232	324-0092	633	359C	RO052
212.37	RO096	250R28	RO092	260P21308	20092	297V040H16	254	324-0093	134	359D	RO052
212.40	RO132	251 (Olson)	RO056	260P21901	707	297V041H01	230/232	324-0095	637	359F	RO053
212.47	RO053	252 (Olson)	170	260P22001	F0021	297V041H06	232	324-0107	135	359H	RO053
212.50	RO090	253 (Olson)	134	260P22002	F0021	297V043H01	253	324-0108	135	359K	RO054
212.51	RO091	254 (Olson)	two 134	260P22003	F0021	297V049H01	54	324-0129	637	359M	RO054
212.57	RO091	255 (Olson)	RO700	260P24008	704	297V049H03	54	324-0130	639	359P	RO055
212.58	RO053	256 (Olson)	R9001	260P24408	740	297V049H04	54	324-0131	3	359S	RO055
212.60	RO094	257 (Olson)	R9003	264P00401	134	297V050H01	254	324-0132	2	359V	RO056
212.61	RO092	258 (Olson)	R9002	264P00501	R9001	297V051H01	254	324-0133	250	359Z	RO056
212.62	RO134	258-1	242	264P00502	R9001	297V051H02	254	324-0134	641	364-1 (SyI)	52
212.64	RO094	258-2	243	264P00506	R9001	297V051H03	251	324-0144	253	364-6004	701
212.65	RO053	260D07201	712	264P00601	RO053	297V052H01	254	324-0187	637	364-10048	801
212.68	RO055	260D07901	736	264P00602	RO053	297V052H04	250	324-6013	243	365-1 (SyI)	726
212.71	RO053	260D08601	243	264P00801	134	297V053H01	254	324T1	254	365T1	254
212.72	RO054	260D08701	736	264P01301	135	297V053H02	254	324T2	251	366-1 (SyI)	720
212.74	RO053	260D08801	53	264P01305	135	297V054H01	2	325-0025-327	134	366-2 (SyI)	734
212.76	RO054	260D09301	704	264P01508	RO055	297V054H02	2	325-0025-329	632	366A	RO130
212.77	RO053	260P01209	232	264P01701	RO054	297V055H01	2	325-0025-330	633	366B	RO131
212.79	RO051	260P02903	56	264P02001	RO052	297V057H01	254	325-0025-331	632	366C	RO132
212.80	RO054	260P02908	56	264P02301	RO055	297V057H02	254	325-0028-79	254	366D	RO132
212.85	R3000	260P03001	238	264P02501	Z0211	297V059H01	54	325-0028-80	254	366F	RO134
212.86	RO056	260P03201	713	264P03001	RO054	297V071C03	240	325-0028-81	254	366H	RO134
212.88	RO054	260P04001	53	264P03302	Z0414	297V072C06	738	325-0028-83	254	366K	RO136
212.92	RO054	260P04002	53	264P03303	Z0415	297V073C04	52	325-0028-84	56	366M	RO136
212.94	RO053	260P04003	53	264P03401	R0700	297V074C02	54	325-0028-85	638	367A	RO130
212.95	RO055	260P04004	53	264P03701	RO050	297V074C03	54	325-0028-86	134	367B	RO131
212.96	RO053	260P04502	53	264P03703	RO098	297V074C06	736	325-0028-87	134	367C	RO132
212.114	RO843	260P04503	53	264P03802	135	297V074C07	S0002	325-0028-89	RO050	367D	RO132
212.142	RO602	260P05402	50	264P04003	Z0225	297V074C09	720	325-0030-315	254	367F	RO134
213 (Olson)	Z0426	260P05801	709	264P04005	Z0407	297V078C01	56	325-0030-317	254	367H	RO134
214 (Olson)	Z0432	260P05901	709	264P04301	RO054	297V078C02	56	325-0030-318	632	367K	RO136
215 (Olson)	Z0433	260P06902	53	264P04303	RO056	297V083C01	715	325-0030-319	254	367M	RO136
215.24	Z0418	260P06903	53	264P04501	RO050	297V083C02	721	325-0031-303	54	368A	RO160
216 (Olson)	Z0436	260P06904	53	264P04502	RO050	297V083C03	242	325-0031-304	54	368B	RO162
217 (Olson)	Z0439	260P07001	53	264P04702	RO054	297V083C04	243	325-0031-305	56	368C	RO162
217-1	722	260P07002	53	264P04703	RO054	297V084C01	244	325-0031-306	243	368D	RO162
218-22	53	260P07103	50	264P04705	RO053	297V085C01	738	325-0031-310	50	371A	RO250
218-23	54	260P07301	736	264P04801	RO056	297V085C02	738	325-0031-335	135	371B	RO251
218-24	54	260P07502	642	264P04901	RO094	297V085C03	721	325-0031-338	RO054	371C	RO253
218-25	54	260P07601	238	264P05902	R2502	297V085C04	728	325-0036-536	254	371D	RO253
218-26	243	260P07701	50	264P06301	254	297V086C01	717	325-0036-562	135	371F	RO254
220-001001	55	260P07702	50	264P06601	RO053	297V086C02	721	325-0036-564	638	371H	RO255
220-001002	56	260P07703	50	265P03301	RO050	297V086C03	736	325-0036-565	640	371K	RO256
220-001011	56	260P07704	56	266P00101	591	297V086C04	246	325-0042-311	175	371M	RO257
220-001012	53	260P07705	56	266P00102	591	297V087B02	245	325-0042-351	53	380	RO220
220-002001	643	260P07707	56	281	50	300	254	325-0047-516	254	380H61	RO053
220-003001	RO050	260P07901	720	295V006H03	RO054	300 (Olson)	R1243	325-0047-517	RO052	380K62	RO054
220-008001	802	260P08001	738	295V006H05	RO052	300R18	RO092	325-0054-310	251	380M63	RO054
221 (Sears)	730	260P08201	716	295V028C02	RO054	300R28	RO092	325-0054-311	254	384A	RO050
221.31	C6001	260P08401	709	295V028C04	RO054	301	254	325-0054-312	RO050	384B	RO052
221.32	C6001	260P08601	241	295V031C02	RO050	301 (Olson)	R1304	325-0076-306	55	384C	RO050
221.34	C6062P	260P08801	55	295V034C01	RO055	301-576-3	C6062P	325-0076-307	729	384D	RO053
221.35	583	260P08901	707	296 (Sears)	S9100	301-679-1	C6017	325-0076-308	50	384F	RO054
221.37	C6067G	260P09201	56	296-50-9	53	301-680-1	C6010	325-0076-315	RO052	384H	RO054
221.39	C6089	260P09402	240	296-51-9	53	302	254	325-0081-100	54	384K	RO055
221.40	C6067G	260P09902	53	296-56-9	53	302E	RO254	325-0081-101	56	384M	53
221.41	C6089	260P10003	713	296-58-9	243	302G	RO255	325-0081-102	254	384P	RO056
221.42	C6070P	260P10005	713	296-59-9	53	303E	RO254	325-0574-30	50	384S	RO056
221.43	C6071P	260P10301	706	296-60-9	250	303G	RO255	325-0574-31	50	384V	RO056
221.45	C6085P	260P10403	50	296-61-9	642	303A	RO160	325-0670-1	254	384Z	RO056
221.46	C6057P	260P10501	56	296-62-9	250	3048	RO162	325-1370-19	50	385 (Zenith)	636
221.48	C6063P	260P10502	56	296V002H07	134	304C	RO162	325-1375-10	640	385A	RO050
221.49	C6072P	260P10601	56	296V002H08	134	304D	RO162	325-1375-11	640	385B	RO050
221.51	C6057P	260P10602	56	296V004H01	R9001	305A	RO090	325-1375-12	640	385C	RO052
221.52	C6057P	260P10801	713	296V006H02	134	305B	RO092	325-1376-53	254	385D	RO052
221.62	C6057P	260P11101	713	296V006H03	RO054	305C	RO092	325-1376-54	639	385E	RO053
221.65	C6056P	260P11209	707	296V007H02	135	305D	RO092	325-1376-55	635	385H	RO053
223 (Sears)	723	260P11302	54	296V012H01	135	307A	RO050	325-1376-56	254	385K	RO054
223	723	260P11303	54	296V019804	Z0220	307B	RO052	325-1376-57	254	385KW	RO054
226-1 (SyI)	729	260P11304	54	296V020B01	RO050	307C	RO052	325-1376-58	254	385M	RO054
226-3	242	260P11305	54	296V020B02	RO050	307D	RO052	325-1378-18	723	385P	RO055
226-4	243	260P11403	242	296V024801	134	307F	RO053	325-1378-19	723	385S	RO055
227-200001	R9001	260P11502	243	296V024802	134	307H	RO053	325-1378-20	632	385Z	RO056
229-0050-13	56	260P11503	243	297V003H03	254	307K	RO054	325-1378-21	238	386-1	715
229-0050-14	56	260P11504	243	297V003H09	254	307M	RO054	325-1378-22	633	386-1 (SyI)	57
229-0050-15	55	260P11505	54	297V003M01	254	310	254	325-1771-15	730	386-1AY	RO050
229-0151-3	720	260P12001	719	297V004H03	254	310-68	639	325-1771-16	724	386-1CY	RO052
229-0180-32	709	260P12002	719	297V004H06	254	310-123	637	325-4610-100	RO050	386-1FY	RO053
229-0180-33	709	260P12002	719	297V004H10	254	311Z4	Z0414	326T1	254	386AK	RO053
229-0180-119	720	260P14101	738	297V004H14	254	314-6005-1	245	341A	RO160	386AW	RO053
229-0180-124	56	260P14103	738	297V004M01	254	314-6007-1	54	3418	RO162	386AX	RO050
229-0182-65	135	260P15100	240	297V011H01	253	314-6007-2	54	341C	RO162	386AY	RO050
229-0185-2	720	260P15108	240	297V012H08	253	314-6007-3	54	341D	RO162	386BW	RO0

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DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
399C	R0092	429-0958-41	R0050	576-0003-011	728	617-67	730	690V043H63	254	690V109H44	R0050
399D	R0092	429-0958-42	53	576-0003-012 (NPN)	56	617-68	729	690V047H56	253	690V109H46	53
404-2 (Syl)	729	429-0958-43	Z0408	576-0003-012 (PNP)	717	617-69	238	690V047H57	253	690V109H72	R2502
404A	R0160	429-0986-12	56	576-0003-017	57	617-70	632	690V047H60	632	690V110H30	55
404B	R0162	429-0989-68	R0050	576-0003-018	56	617-71	243	690V047H61	134	690V110H31	54
404C	R0162	430 (Zen)	730	576-0003-019	57	617-87	243	690V049H81	56	690V110H32	50
404D	R0162	431-26551A	C6056P	576-0003-020	56	617-117	245	690V052H23	250	690V110H33	50
404P	R0137	432-1 (Syl)	243	576-0003-021	56	617-156	134	690V052H24	254	690V110H34	243
404S	R0137	433-1 (Syl)	721	576-0003-022	736	617-161	733	690V052H50	134	690V110H36	243
404V	R0138	433 (Zen)	730	576-0003-023	709	617-162	R0054	690V056H31	639	690V110H55	242
404Z	R0138	437P	R0137	576-0003-024	3	617-163	R0054	690V056H32	639	690V116H20	53
405A	R0160	437S	R0137	576-0003-026	725	623-1 (RCA)	245	690V056H33	633	693C	55
405B	R0162	437V	R0138	576-0003-027	709	624-1 (RCA)	246	690V056H34	632	699 (G E)	736
405C	R0162	437Z	R0138	576-0003-028	722	624-0005	R9001	690V057H24	254	700-04	801
405D	R0162	441A	R0160	576-0004-001	713	624-0007	R9001	690V057H25	637	702-810	R9001
407A	R0130	441A	R0162	576-0004-002	75	629A02	R0050	690V059H20	254	703-1	55
407B	R0130	441C	R0162	576-0004-004	713	630-070-0	R0056	690V059H21	632	703A	R0220
407C	R0132	441D	R0162	576-0004-005	S3001	630-076	54	690V059H52	633	703B	R0222
407D	R0132	441P	R0137	576-0004-006	53	630-079	134	690V059H55	632	703C	R0222
407F	R0134	441S	R0137	576-0004-008	S3008	630-086	Z0432	690V059H63	135	703D	R0222
407H	R0134	441V	R0138	576-0004-009	S3001	631-3	242	690V061H98	250	737 (Zen)	721
407K	R0136	441Z	R0138	576-0004-010	S3005	632-1	714	690V061H99	250	739H01	50
407M	R0136	442-9	595	576-0004-011	S3001	635-1 (RCA)	F2004	690V066H89	638	745-0001	P2501
407P	R0137	442-16	C6056P	576-0004-012	S3001	638 (Zen)	729	690V068H29	639	750C838-111	R0050
407S	R0137	443-8	570	576-0004-015	S3007	638H (GE)	703	690V068H30	250	750C838-123	50
407V	R0138	443-9	572	576-0005-001	310	639 (Zen)	736	690V068H31	250	750C838-124	50
407Z	R0138	446P	R0137	576-0006-003	801	640-1	245	690V068H32	134	750C838-125	55
408A	R0130	446S	R0137	576-0006-221	F2004	642-151	254	690V070H49	56	750D858-211	R0050
408B	R0131	446V	R0138	576-0007-001	S9100	642-206	623	690V073H59	639	750D858-212	730
408C	R0132	446Z	R0138	576-0006-212	713	642-229	734	690V073H60	134	750D858-213	724
408D	R0132	448A662	714	576-0036-213	S3020	642-230	734	690V073H85	639	752A	C6007
408F	R0134	451D	R0162	576-0036-847	S3005	642-242	50	690V075H68	56	753-2000-003	53
408H	R0134	465852	R0056	576-0036-913	S3001	642-261	246	690V077H36	639	753-2000-006	703
408K	R0136	471-1 (Syl)	245	576-0036-916	53	642-264	232	690V077H73	254	753-2000-008	53
408M	R0136	473A31	232	576-0036-917	53	642-268	728	690V080H38	712	753-2000-009	729
408P	R0137	47386-2	254	576-0040-251	704	642-269	55	690V080H39	250	753-2000-011	729
408S	R0137	47386-2A	254	576-0040-253	253	642-270	737	690V080H40	638	753-2100-002	642
408V	R0138	47386-4	254	576-0040-254	628	642-271	230	690V080H41	54	753-2100-008	55
408Z	R0138	47386-5	254	576-2000-278	233	642-274	55	690V080H42	230	753-4000-010	730
41224	Z0414	47386-7	254	576-2000-990	636	642-277	641	690V080H44	254	753-4000-024	801
417-18	250	478C	R0162	576-2000-993	636	642-306	736	690V080H50	R0055	753-4000-025	802
417-298LK	232	499-1	55	576-2001-970	233	642-316	230	690V080H51	R0052	753-4000-537	56
417-29GRN	232	503T1	3	586-2 (RCA)	721	642-319	56	690V080H52	R0053	753-4000-668	56
417-29WHT	232	504T1	3	595-1 (Syl)	728	644-1	246	690V080H54	R0050	753-4000-929	56
417-42	625	505T1	3	595-2 (Syl)	729	650C2	Z0208	690V081H07	56	753-4001-474	643
417-59	53	506T1	3	600X0091-086	243	651	Z0405	690V082H40	R0053	753-4001-931	245
417-60	232	507T1	3	600X0092-086	54	651C2	Z0210	690V082H47	250	753-4004-248	715
417-67	724	508T1	3	600X0093-086	709	651C4	Z0405	690V083H89	135	754-2000-042	R0052
417-71	636	510A-90	135	600X0094-086	709	651C5	Z0211	690V084H60	640	754-4000-188	134
417-79	635	512RED	723	600X0095-086	53	651C6	Z0211	690V084H61	254	754-4000-410	135
417-90	232	514-048	C6011	600X0096-066	135	652C0	Z0212	690V084H62	55	754-4000-553	R2502
417-104	703	514-053	C6007	600X0097-066	135	652C1	Z0212	690V084H63	254	767 (Zen)	730
417-108	721	515ORN	725	600X0098-066	R9001	652C6	Z0214	690V085H44	238	772Zc	56
417-113	232	520T1	253	600X0099-066	R0054	652C7	Z0214	690V086H51	718	772Cc	56
417-118	723	521T1	254	600X0100-066	134	653C2	Z0215	690V086H52	56	772Dc	56
417-119	591	523-0001-002	R0052	600X0101-066	Z0415	653C3	Z0215	690V086H87	56	773 (Zen)	243
417-132	715	523-0006-002	R0052	600X0141-000	709	654-1	802	690V086H91	R0054	773RED	722
417-139	S7000	523-1000-001	R0050	600X0143-000	709	655C9	Z0220	690V086H92	R0053	774 (Zen)	242
417-144	245	523-1000-067	134	600X0175	56	656-136	250	690V086H94	56	774ORN	722
417-145	246	523-1000-295	134	600X0186-000	R0700	656-137	250	690V086H95	709	775BRN	723
417-150	253	523-1000-326	134	600X0195-000	720	656-138	254	690V086H96	56	775-1 (Syl)	S9100
417-156	570	523-1000-881	R0052	601X0048-066	R0094	656-139	250	690V088H20	R0602	776GRN	725
417-157	572	523-1000-882	R0053	601X0049-066	R0054	660-077-0	230	690V088H44	720	776-1	242
417-201	716	523-1002-326	134	601X0149-086	729	660-126	50	690V088H45	720	776-1 (Syl)	717
417-278	625	523-2001-100	Z0220	601X0150-066	134	660-127	50	690V088H46	55	7798LU	724
417A	R0250	523-2003-100	Z0412	601X0151-066	135	660-131	54	690V088H47	56	780WHT	724
417B	R0251	523-2004-100	Z2514	601X0152-066	R0052	660-132	704	690V088H48	56	783RED	723
417C	R0253	524WHT	736	601X0224-066	R0052	660-133	57	690V088H49	50	784ORN	724
417D	R0253	536J2F	R0050	601X0225-066	R0600	660-137	248	690V088H50	243	785YEL	725
417F	R0254	537J2F	R0052	601X0226-066	Z0416	660-138	702	690V088H51	243	786	722
417H	R0255	538J2F	R0052	601X0227-066	R0094	660-145	54	690V088H52	632	7878LU	723
417K	R0256	539J2F	R0053	601X0375-006	R0056	660-220	55	690V089H46	53	791	721
417M	R0257	540J2F	R0053	601X0417-086	717	660-221	55	690V089H86	56	800-002-00	134
418A	R0250	546 (Zen)	720	602-56	716	660-222	733	690V089H89	738	800-003-00	134
418B	R0251	547J2F	R0054	602-60	716	660-224	254	690V089H90	253	800-004-00	Z0415
418C	R0253	551	56	602-61	54	660-225	53	690V094H17	703	800-018-00	R0092
418D	R0253	551-006	C6011	604 (Sears)	55	660-227	254	690V094H18	254	800-021-00	134
418F	R0254	551-007	C6007	605 (Sears)	721	660-228	641	690V094H19	254	800-024-00	R0050
418H	R0255	551A	C6011	612-16 (Zen)	56	660-229	134	690V094H20	254	800-196	two 232
418K	R0256	572-0040-051	232	613 (Zen)	56	6608	254	690V094H21	736	800-219	632+641
418M	R0257	576-0001-001	245	614 (Zen)	56	669	57	690V094H35	R0052	800-289	245+246
419A	R0250	576-0001-002	739	614-118	R0050	675-153	254	690V097H62	721	800-294	242+243
420T1	253	576-0001-003	636	614X1	253	675-154	254	690V098H48	55	800-310	254+641
421-6	637	576-0001-005	54	614X2	253	675-155	254	690V098H49	55	800-329	two 230
421-68	637	576-0001-008	53	614X3	253	675-156	254	690V098H50	55	800-401	54
421-7	3	576-0001-009	638	614X4	253	675-206	642	690V098H51	642	800-501-00	244
421-78	3	576-0001-012	54	614X5	254	679-1	C6017	690V098H52	134	800-502-00	253
421-8	3	576-0001-013	739	614X6	254	680-1	C6010	690V098H53	R0052	800-504-00	2
421-88	3	576-0001-014	250	614X7	254	690V010H40	709	690V099H59	238	800-505-00	254
421-11	254	576-0002-001	245	614X8	54	690V010H41	56	690V099H79	737	800-507-00	232
421-118	250	576-0002-002	232	614X9	254	690V010H42	254	690V099H80	639	800-509-00	54
421-12	250	576-0002-003	704	614X10	254	690V010H43	R2502	690V102H39	641	800-521-02	714
421-128	250	576-0002-004	253</								

HEP Semiconductor Replacement Cross-References

DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
808-306	254	921-148	250	964-27986	53	1004	134	1124B	232	1950-17	R0050
808-307	254	921-158	617	972X1	637	1004 (GE)	718	1127	Z0234	1951-17	639
808-308	254	921-168	637	972X2	637	1004-01	238	1128-17	250	1954-17	254
808-309	53	921-178	637	972X3	640	1004-02	S3001	1133	Z0426	1955-17	642
808-310	254	921-208	54	972X4	638	1004-03	736	1139-17	R0052	1956-17	134
808-311	254	921-218	54	972X5	638	1004-17	709	1140-17	632	1958-17	641
808-312	134	921-228	54	972X6	640	1005	54	1145-17	54	1960-17	250
818WHT	724	921-238	54	972X7	638	1005-17	250	1148-17	250	1961-17	728
822-1	R0054	921-248	250	972X8	638	1006 (GE)	718	1206-17	135	1966-17	53
822-1 (Syl)	709	921-258	250	972X9	254	1006 (Juliette)	56	1210-17	56	1968-17	S3020
822-2	R0054	921-268	55	972X10	254	1007 (Juliette)	50	1214	717	1969-17	243
822-3	R0050	921-278	53	972X11	254	1007-17	250	1227-17	719	1971-17	R0053
822-4	R0052	921-288	51+53	972X12	254	1008 (Johnson)	53	1228-17	50	1972-17	243
822-5	R0052	921-298	51	974-2 (Syl)	244	1008 (Juliette)	50	1241A	254	1973-17	250
822A	730	921-308	55	974-4 (Syl)	706	1008-02	736	1272	50	1974-17	250
822ABLU	730	921-318	55	977-1	R0050	1008-17	230	1277-17	230	1977-17	134
822B	730	921-328	55	977-3B	R0054	1009 (Johnson)	638	1307 (Penny)	643	1980-17	135
823B	730	921-338	50	977-14B	R9001	1009 (GE)	718	1315 (Penny)	55	1981-17	R0050
823WHT	730	921-348	50	992-10	R0050	1009-01	802	1316 (Penny)	56	1982-17	R0052
824-1 (Syl)	709	921-358	1	992-531-01	175	1009-02	736	1316-17	250	1983-17	56
827BRN	723	921-368	253	0002SB4B1	642	1009-03	S3001	1317-17	254	1984-17	243
828GRN	724	921-378	633	0002SC373	55	1009-04	S3002	1320	254	2001 (Johnson)	245
829	57	921-388	630	0002SC735	53	1009-05	S3020	1329	641	2002 (Johnson)	232
829A	57	921-398	254	0002SC1023	709	1009-06	E0410	1330	254	2003	704
829B	57	921-408	633	0018	53	1009-07	R0600	1347-17	250	2004 (Johnson)	253
829C	57	921-418	254	0036-001	52	1009-08	R0600	1349-17	641	2005	628
829D	57	921-438	53	0086	Z0432	1009-09	R0052	1350	253	2006 (Johnson)	243
829E	57	921-448	253	0087	Z0424	1009-17	50	1360	254	2008	703
829F	57	921-458	633	0101-0222	639	1010	Z0220	1362-17	254	2009	233
830	253	921-468	243	0102-0119	254	1010-17	S3001	1364-17	254	2010	233
833	716	921-478	242	0102-0286	254	1011 (Juliette)	134	1371-17	641	2011	245
847BLK	725	921-488	53	0103-0014	55	1011-01	S3001	1373-17	53	2012	238
860-022-01	247	921-498	53	0103-0088	55	1011-02	Z0409	1374-17	53	2027	R0050
880-101-00	C6001	921-508	53	0103-0154	53	1012	54	1390	253	2040-17	Z0414
880-207-000	R0050	921-518	250	0103-0202	56	1012 (GE)	52	1396	641	2057A2-27	53
881	R0220	921-528	630	0103-0230	56	1012 (Juliette)	R2502	1400	253	2057A2-28	736
881-250.107	716	921-558	56	0121	728	1012-17	R0132	1410	253	2057A2-29	254
881-250.108	726	921-568	56	0123	700	1013	715	1436-17	254	2057A2-32	250
881-250.109	723	921-578	56	0123 (Wards)	246	1013 (Johnson)	739	1476-17	254	2057A2-34	250
882	R0220R	921-588	56	0124 (Hoffman)	701	1014 (Johnson)	250	1482-17	S3001	2057A2-35	635
884-250.011	245	921-598	56	0124 (Knight)	715	1015	Z0418	1487-17	S3001	2057A2-37	639
903-8B	135	921-608	736	0124 (Wards)	245	1016 (GE)	52	1493-17	55	2057A2-38	736
903-9B	135	921-618	240	0125	722	1016-17	709	1526	2	2057A2-39	250
903-10B	135	921-628	55	0126	728	1016-81	245	1548-17	241	2057A2-41	635
903-12B	134	921-638	55	0126 (Wards)	S3027	1016-83	56	1550	134	2057A2-42	635
903-13B	134	921-648	55	0127	721	1016-84	56	1550-17	Z0416	2057A2-43	250
903-17B	R0053	921-658	640	0128	53	1016-85	56	1553-17	242	2057A2-44	254
903-18B	134	921-668	640	0131	728	1020	R0052	1558-17	708	2057A2-45	254
903-19B	R2502	921-678	254	0132	247	1020-17	50	1559-17	232	2057A2-46	641
903-23B	134	921-688	254	0133	715	1021 (GE)	802	1561-17	232	2057A2-47	240
903-28B	R0050	921-698	238	0134	728	1021-17	250	1567	54	2057A2-48	253
903-29B	135	921-708	52	0137	248	1023-17	250	1611-17	R0052	2057A2-49	250
903-34B	135	921-718	641	0142	720	1027	Z0424	1615C	R9001	2057A2-50	635
903-35B	R2502	921-728	56	0200	R0162	1027 (GE)	54	1617C	R9002	2057A2-51	636
903-36B	R0053	921-738	53	0201	R0162	1028 (GE)	54	1634-17	56	2057A2-52	254
903-37B	134	921-848	56	0210	R0162	1029 (GE)	56	1687-17	56	2057A2-57	53
903-47B	R2502	921-858	53	0211	R0162	1030	717	1711-17	738	2057A2-58	240
903-48B	R0602	921-868	53	0220	R0162	1030 (GE)	740	1712-17	50	2057A2-59	736
903-51B	135	921-888	240	0221	R0162	1030-17	134	1723-17	53	2057A2-60	639
903-52B	R0053	921-928	56	0300	R0052	1032	254	1751-17	55	2057A2-61	254
902-69B	R0052	921-100B	633	0301	R0052	1032 (GE)	244	1761-17	56	2057A2-62	55
903-95B	R0600	921-102B	56	0302	R0053	1033	Z0426	1777-17	254	2057A2-63	736
903-96B	R2503	921-109B	56	0304	R0054	1033-17	R0052	1778-17	135	2057A2-64	56
903-97B	Z0415	921-114B	56	0307	R0056	1034	254	1789-17	713	2057A2-65	639
904-95B	730	921-115B	56	0310	R0052	1035	254	1792-17	56	2057A2-66	639
904-96B	55	921-116B	56	0311	R0052	1035 (GE)	712	1794-17	Z2513	2057A2-67	635
904-97B	135	921-117B	53	0312	R0053	1036	254	1799-17	53	2057A2-68	635
909-27125-140	726	921-118B	238	0314	R0054	1038 (GE)	254	1800-17	S0001	2057A2-70	635
909-27125-160	723	921-141B	56	0317	R0056	1038-1-10	54	1804	C6007	2057A2-71	635
910X1	254	921-142B	56	0320	R0052	1038-6 (GE)	724	1804-17	713	2057A2-72	250
910X2	254	921-143B	50	0321	R0052	1038-8 (GE)	53	1827-17	253	2057A2-73	736
910X3	253	921-153B	253	0322	R0053	1038-10 (GE)	54	1840-17	643	2057A2-77	635
910X4	253	921-195B	50	0324	R0054	1038-15	53	1841-17	55	2057A2-78	250
910X5	253	921-196	730	0327	R0055	1038-18	724	1843-17	738	2057A2-79	254
910X6	253	921-197B	51	0700	R0052	1038-21	721	1844-17	242	2057A2-80	254
910X7	254	921-198B	245+246	0710	R0050	1038-23	53	1845-17	709	2057A2-81	240
910XB	254	930DZ	56	0727-50	R0053	1038-24	721	1848-17	R0050	2057A2-83	250
910X9	254	930X1	53	0770	246	1040	R0053	1849R	R9002	2057A2-84	240
910X10	254	930X2	53	0772	701	1040-2 (GE)	54	1850 (Sony)	R0054	2057A2-85	S0004
914	584	930X3	50	0773	700	1040-7	735	1850-0098	232	2057A2-86	250
916-31001-1	250	930X4	56	1000-17	134	1040-11 (GE)	721	1850R	R0054	2057A2-87	53
916-31001-7B	633	930X5	56	1000-135	53	1060	R0054	1854-0003	53	2057A2-88	254
916-31003-5B	632	930X6	639	1000-136	738	1052-17	633	1855-17	R0052	2057A2-89	635
916-31007-5	253	930X7	633	1000-137	53	1057-17	254	1859-17	802	2057A2-90	635
916-31007-5B	253	930X8	633	1000-138	S3020	1060	R0054	1866-17	738	2057A2-92	736
916-31012-6	250	930X9	632	1000-139	S3001	1060-17	633	1867-17	51	2057A2-93	636
916-31012-6B	250	930X10	632	1000-140	S3020	1068-17	S3001	1879-17	S3001	2057A2-94	254
916-31019-3	639	935-1	53	1000-141	S3001	1070	R0055	1880-17	56	2057A2-96	736
916-31019-3B	639	936-20	R0054	1000-142	245	1076 (GE)	C6076P	1881-17	56	2057A2-97	736
916-31024-3	53	936PNP	245	1001 (Juliette)	254	1090	R0056	1890-17	720	2057A2-99	254
916-31024-5	53	936PNP	246	1001-01	732	1095J2F	R0054	1893-17	738	2057A2-101	S0004
916-31025-4	709	945	310	1001-02	728	1096J2F	R0054	1906-17	641	2057A2-102	S0004
916-31025-5	53	947-1 (Syl)	729	1001-03	56	1102	Z0206	1915-17	736	2057A2-103	729
916-32000-7	135	951-1 (Syl)	636	1001-04	733	1102-17	254	1916-17	S3001	2057A2-104	254
916-32003-2	135	955-1	3	1001-05	736	1103	Z0208	1919-17	254	2057A2-105	254
916-32006-2	134	955-2	3	1001-06	736	1104	Z0210	1923-17	56	2057A2-108	S0004
919-005045	R0092	955-3	3	1001-07	S3001	1105	Z0212	1929-17	54	2057A2-109	S0004
921-1B	637	964-2209	S9100	1001-08	S3002	1105 (Topaz)	G6002	1931-17	50	2057A2-110	S0004
921-2B	637	964-1659B	638	1001-09	703	1106	Z0215	1932-17	55		

HEP Semiconductor Replacement Cross-References

DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
2057A2-123	736	2057B2-41	635	2057B2-185	56	2295	703	3013 (Sears)	238	3565 (RCA)	721
2057A2-124	636	2057B2-42	635	2057B2-187	50	2309	Z0412	3014 (Sears)	633	3567-2	245
2057A2-125	728	2057B2-43	250	2057B2-192	728	Z362-1	55	3017 (Johnson)	57	3568 (RCA)	709
2057A2-127	S0004	2057B2-44	250	2057B2-193	50	2402-453	254	3018 (Johnson)	56	3570 (RCA)	715
2057A2-128	S0004	2057B2-45	254	2057B2-195	54	2402-454	632	3019	57	3570P	715
2057A2-129	254	2057B2-46	641	2057B2-196	54	2402-455	632	3020	56	3571R	738
2057A2-130	736	2057B2-47	240	2057B2-197	54	2402-456	643	3021	56	3571-1 (RCA)	738
2057A2-133	232	2057B2-48	53	2057B2-198	242	2402-457	632	3022	736	3572 (RCA)	720
2057A2-134	235	2057B2-49	250	2057B2-199	243	2402-459	135	3023	709	3572-3 (RCA)	243
2057A2-135	254	2057B2-50	635	2057B2-200	51	2402-461	R0050	3026	725	3574 (RCA)	715
2057A2-136	235	2057B2-51	636	2057B2-201	S0004	2402-462	R0050	3027	709	3574-1 (RCA)	715
2057A2-137	632	2057B2-52	254	2057B2-202	719	2402-463	R0050	3028	722	3576 (RCA)	709
2057A2-138	728	2057B2-53	53	2057B2-203	52	2405-453	254	3054	703	3577	253
2057A2-139	719	2057B2-57	240	2057B2-205	636	2405-454	632	3069 (Arvin)	R0050	3577 (RCA)	738
2057A2-140	706	2057B2-59	736	2057B2-206	253	2405-455	632	3105	R0250	3578-1 (RCA)	250
2057A2-141	254	2057B2-60	639	2057B-3	254/641	2405-456	633	3107 204 9000	50	3585-6 (RCA)	R1223
2057A2-142	254	2057B2-61	238	2057B100-1	253	2405-457	632	3107 204 90010	55	3585-7 (RCA)	R1223
2057A2-143	S0004	2057B2-62	55	2057B100-3	250+641	2405-458	135	3107 204 90020	55	3585-8 (RCA)	R1223
2057A2-145	243	2057B2-63	736	2057B100-4	641	2405-459	R9002	3107 204 90070	232	3586 (RCA)	718
2057A2-146	243	2057B2-64	56	2057B100-5	254+641	2405-462	R0050	3107 204 90080	56	3588 (RCA)	56
2057A2-147	633	2057B2-65	639	2057B100-7	250	2405-463	R0050	3107 204 90100	728	3589 (RCA)	53
2057A2-148	632	2057B2-66	639	2057B100-8	254	2408-326	254	3107 204 90140	230	3590 (RCA)	715
2057A2-149	636	2057B2-67	3	2057B100-9	254	2408-328	632	3107 204 90150	737	3591 (RCA)	51
2057A2-150	242	2057B2-68	637	2057B100-11	two 642	2408-329	238	3107 204 90180	S3023	3597 (RCA)	52
2057A2-151	243	2057B2-70	637	2057B100-12	630	2408-330	134	3107 204 90190	230	3597-1 (RCA)	52
2057A2-152	736	2057B2-71	637	2057B100-13	254	2408-331	R0050	3110	R0251	3597-2 (RCA)	52
2057A2-153	736	2057B2-72	633	2057B100-14	632+641	2417	240	3111	726	3600	254
2057A2-154	736	2057B2-73	56	2057B100-15	two 238	2450	54	3112	254	3601 (RCA)	721
2057A2-155	725	2057B2-77	53	2057B100-16	704	2487B	636	3113	54	3601-1 (RCA)	721
2057A2-156	736	2057B2-78	250	2057B100-17	243	2488A	639	3115	R0253	3603 (RCA)	243
2057A2-157	635	2057B2-79	254	2057B100-18	238+641	2489A	636	3120	R0253	3604 (RCA)	50
2057A2-158	635	2057B2-80	638	2057B100-21	two 253	2490A	251	3125	R0254	3607	641
2057A2-159	636	2057B2-81	640	205B	2	2491B	240	3130	R0254	3608-1 (RCA)	243
2057A2-160	720	2057B2-83	254	2061A45-38	R0602	2516 (RCA)	C6060P	3135	R0255	3608-2 (RCA)	243
2057A2-161	56	2057B2-84	240	2061B45-14	254	2549	248	3140	R0255	3609	641
2057A2-162	S0004	2057B2-85	S0004	2061B45-35	R0050	2577	234	3145	R0256	3610 (RCA)	56
2057A2-163	53	2057B2-86	250	2062-17	S3002	2603-180	632	3150	R0256	3613-3	714
2057A2-165	632	2057B2-87	50	2063-17	728	2603-181	633	3160	R0257	3613-3 (RCA)	714
2057A2-166	635	2057B2-88	639	2064-17	Z0411	2603-182	632	3215	R0253	3615 (RCA)	243
2057A2-167	641	2057B2-89	637	2066-17	R0052	2603-183	253	3225	R0254	3616-1 (RCA)	715
2057A2-179	719	2057B2-90	637	2081-17	S5003	2603-184	56	3227E	56	3618 (RCA)	F2004
2057A2-180	56	2057B2-92	736	2084-17	R0050	2603-186	134	3235	R0255	3620-1 (RCA)	52
2057A2-181	719	2057B2-93	637	2085-17	245	2606-286	254	3245	R0256	3622-1 (RCA)	243
2057A2-185	56	2057B2-94	254	2093A38-4	R0602	2606-287	633	3322-6	135	3625 (RCA)	738
2057A2-187	50	2057B2-96	736	2093A38-8	R2502	2606-288	238	3370	56	3628-3 (RCA)	246
2057A2-192	736	2057B2-97	55	2093A38-10	135	2606-291	632	3391 (Sears)	726	3629-3 (RCA)	245
2057A2-193	50	2057B2-99	254	2093A38-13	134	2606-292	253	3391A (Sears)	726	3631-1 (RCA)	243
2057A2-195	54	2057B2-101	S0004	2093A38-21	135	2606-293	720	3425	253	3652 (RCA)	56
2057A2-196	54	2057B2-102	S0004	2093A41-6	R0050	2606-294	56	3434	253	3677 (RCA)	C6069G
2057A2-197	54	2057B2-103	729	2093A41-23	R2502	2606-295	638	3435	253	3710	728
2057A2-198	242	2057B2-104	640	2093A41-24	Z0412	2606-296	134	3458	253	3702	Z0214
2057A2-199	243	2057B2-105	639	2093A41-27	R2502	2606-297	R2502	3476 (RCA)	719	3703	Z0214
2057A2-200	51	2057B2-108	56	2093A41-29	135	2606-299	R9001	3500	253	3704	Z0214
2057A2-201	S0004	2057B2-109	723	2093A41-38	134	2606-303	Z0208	3504	253	3714H1	247
2057A2-202	719	2057B2-110	723	2093A41-40	253	2634 (RCA)	56	3505	134	3755-1	Z0215
2057A2-203	52	2057B2-111	723	2093A41-42	R0050	2634-1 (RCA)	55	305 (Airline)	two R0600	3755-2	Z0215
2057A2-204	50	2057B2-112	637	2093A41-43	R0050	2700	3	3505 (RCA)	736	3851	253
2057A2-205	636	2057B2-113	50	2093A41-49	R0050	2703-384	254	3506	Z0416	3852	253
2057A2-206	254	2057B2-114	53	2093A41-51	R0054	2703-385	632	3507 (Sears)	721	3867	53
2057A2-207	738	2057B2-115	56	2093A41-53	Z0215	2703-386	632	3507 (Wards)	721	3868	S3001
2057A2-208	53	2057B2-116	53	2093A41-54	R0054	2703-387	238	3508	719	3878	713
2057A2-209	53	2057B2-117	53	2093A41-59	134	2703-388	238	3508 (Sears)	719	3881	709
2057A2-210	254	2057B2-118	640	2093A41-62	R0050	2703-389	134	3509	726	3907	254
2057A2-211	643	2057B2-119	56	2093A41-63	Z0211	2703-390	R0050	3509 (Sears)	726	3907/2N404	739
2057A2-215	55	2057B2-120	56	2093A41-65	R0052	2704-384	254	3510 (Sears)	718	3961 (GE)	3
2057A2-216	56	2057B2-121	738	2093A41-77	R0054	2704-385	632	3510 (Wards)	718	3970 (GE)	254
2057A2-217	53	2057B2-122	53	2093A41-84	R0053	2704-386	632	3511	802	3999	726
2057A2-218	56	2057B2-123	53	2093A41-85	Z0421	2704-387	238	3511 (Sears)	802	4000 (Sears)	135
2057A2-219	50	2057B2-124	253	2093B38-4	R0050	2704-388	134	3512	802	4001	713
2057A2-220	56	2057B2-125	53	2093B38-5	134	2704-389	R0050	3512 (Sears)	F0021	4001-151	R0050
2057A2-221	505	2057B2-127	S0004	2093B41-6	R0054	2763	715	3002	R0052	4001-222	637
2057A2-222	721	2057B2-128	S0004	2093B41-8	R0050	2774	Z0405	3513 (Sears)	715	4001-223	637
2057A2-223	240	2057B2-129	633	2093B41-10	R0052	2780 (Sears)	234	3514 (Sears)	721	4001-224	250
2057A2-231	3	2057B2-130	719	2093B41-20	R0054	2780 (Wards)	232	3514 (Wards)	721	4001-225	250
2057A2-232	3	2057B2-133	232	2093B41-22	R0052	2780-4	230/232	3517	253	4001-226	254
2057A2-249	55	2057B2-134	235	2093B41-24	Z0412	2781 (Sears)	254	3519 (RCA)	53	4001-227	243
2057A2-288	632	2057B2-135	250	2093B41-28	R0053	2781 (Wards)	254	3520	240	4001-228	714
2057A2-289	55	2057B2-136	235	2093B41-29	135	2784	R0052	3520 (Wards)	Z0415	4001-230	134
2057A2-300	245	2057B2-137	635	2093B41-37	R0050	2787 (Sears)	724	3521 (Sears)	730	4002	75
2057A2-301	245	2057B2-138	56	2105 (Wards)	R2502	2787 (Wards)	724	3522 (Sears)	57	4002 (Penney)	728
2057A100-1	two 253	2057B2-139	56	2110N 41	R0600	2789	135	3523 (Sears)	736	4003 (Sears)	135
2057A100-3	250+641	2057B2-140	712	2110N 42	R0051	2789 (Sears)	134	3524 (RCA)	56	4004 (Johnson)	713
2057A100-4	641	2057B2-141	254	2110N 132	53	2794 (Wards)	R0050	3524-1 (RCA)	56	4004 (Penney)	632
2057A100-5	254+641	2057B2-142	253	2110N 133	54	2794 (Sears)	170	3525 (Sears)	708	4005 (Johnson)	S3001
2057A100-7	two 250	2057B2-143	56	2110N 134	701	2794 (Wards)	R0056	3525 (Sears)	246	4006 (Johnson)	53
2057A100-8	two 254	2057B2-145	243	2112-17	254	2795A	Z0412	3526 (RCA)	56	4007 (Sears)	135
2057A100-9	two 254	2057B2-146	243	2114-0	712	2795A (Sears)	Z0412	3526 (Sears)	245	4008	S3008
2057A100-11	two 642	2057B2-147	633	2114-17	254	2796	134	3529 (Sears)	R0050	4009	S3001
2057A100-12	two 630	2057B2-148	632	2116-17	R0052	2797	3	3532 (RCA)	56	4009 (Penney)	254
2057A100-13	two 254	2057B2-149	636	2120-17	Z0228	2798	52	3535 (RCA)	709	4010	S3005
2057A100-14	632+641	2057B2-150	242	2160	310	2901-010	232	3536 (RCA)	714	4011	S3001
2057A100-15	238	2057B2-151	243	2163-17	703	2904-008	232	3539 (RCA)	721	4012 (Johnson)	S3001

HEP Semiconductor Replacement Cross-References

DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
4085	725	4596	632	4888A	232	7128	724	8000-00005-005	728	09004	594
4086	717	4597	233	4888B	232	7131	722	8000-00005-007	50	09007	C6061P
4087	717	4597GRN	233	5001	310	7132	723	8000-00005-008	703	09010	C6059P
4099A	S3027	4597RED	233	5002 (Thomas)	C6007	7133	723	8000-00005-009	729	09011	595
4167 (Penney)	56	4603	638	5005 (Thomas)	C6011	7134	724	8000-00005-010	S3001	09500	737
4168 (Ward's)	720	4604	638	5007 (Thomas)	C6011	7161 (Wurlitzer)	C6003	8000-00005-011	S3002	09501	737
4168 (Penney)	56	4605	639	5009 (Thomas)	C6015	7173 (GE)	720	8000-00005-012	641	09502	737
4169 (Ward's)	738	4605RED	639	5093	724	7174 (GE)	56	8000-00005-013	S3005	09800	716
4169 (Penney)	56	4606	636	5096	802	7175 (GE)	56	8000-00005-055	728	10031	R9001
4247	230/232	4607	232	5101N60	135	7176 (GE)	56	8000-00006-001	S3001	10036	254
4295-1	C6014	4608	628	5101S34	134	7178 (GE)	50	8000-00006-002	S3002	10037	254
4295-2	C6012	4619RED	628	5118	248	7214	718	8000-00006-003	56	10038	253
4309	54	4620GRN	628	5120A90	135	7215	718	8000-00006-004	242	10039	253
4310	716	4621	639	5122	5122	Z0415	718	8000-00006-005	50	10100	R0056
4313	630	4622	231	5124	Z0418	7218	718	8000-00006-006	704	10300	715
4315	632	4623	234	5130	Z0424	7219	718	8000-00006-007	135	10909	R0050
4331	625	4624	53	5132	Z0426	7220	718	8000-00006-008	R0602	12074E	253
4347	230	4627	632	5139	Z0433	7220	718	8000-00006-009	Z0412	12112-C	54
4348	254	4630	53	5142	Z0436	7221	718	8000-00006-010	Z0426	12112-D	54
4349	254	4632	639	5145	Z0439	7232 (GE)	50	8003-114	55	12112-E	54
4363	639	4640	236	5203N1	R9001	7233 (GE)	56	8003-115	R0050	12112-F	54
43638LU	639	4640P	236	5210DC-1	R0091	7234 (GE)	56	8010-51	R2502	12536	704
4363GRN	639	4648	712	5222	Z0415	7235 (GE)	55	8010-52	R0602	12537	248
4363ORN	639	4649	230	5224	Z0418	7236 (GE)	50	8010-53	135	12538	241
4363WHT	639	4652	627	5226 1	716	7237 (GE)	50	8010-171	C6060P	12539	702
4364	639	4653	Z0412	5226 2	721	7310 (GE)	240	8010-173	F0021	12546	712
4365	639	4659	600	5230	Z0424	7364-6053P1	S3001	8010-174	54	12550	R0092
4366	638	4663	Z0426	5232	Z0426	7398-6117P1	56	8010-175	54	12593	728
4367	638	4677	1	5239	Z0433	7398-6118P1	802	8010-176	54	12594	57
4368	3	4699	Z0436	5242	Z0436	7398-6119P1	53	8070-4	254	12788	R0050
4398	632	4700	641	5245	Z0439	7398-6120P1	S3020	8071-4	254	12808	134
4419-4	248	4701	704	5361 1N60P	135	7425	722	8072-4	254	12837	R0052
4442	708	4702	236	5380 21	R0052	7426	723	8073-4	254	12850	134
4450	630	4704	Z0436	5380 71	53	7427	724	8074-4	55	12888	52
4454	638	4705	53	5380-72	54	7428	724	8075-4	55	13286-139	S7000
4456	638	4706	720	5380-73	243	7429	725	8301 (Penney)	715	13297	52
4457	638	4709	729	5508	Z0206	7430	725	8302 (Penney)	721	13298	247
4459	235	4712	601	5510	Z0208	7431	726	8303 (Penney)	242	13299	248
4462	631	4714	53	5512	Z0210	7432	726	8304 (Penney)	243	13314	713
4463	230	4715	704	5513	Z0211	7433	726	8405	715	13782	R0052
4464	53	4722	623	5514	Z0212	7510 (diode)	R0056	8471 (Syl)	S3023	15024	230/232
4465	53	47228LU	624	5515	Z0214	7510 (transistor)	703	8500-201	254	15027	230/232
4466ORN	629	4722GRN	624	5516	Z0215	7515 (GE)	54	8500-202	633	15840-1	54
4467	R0162	4722ORN	623	5518	Z0217	7516 (GE)	721	8500-203	632	15942	C6007
44688RN	629	4722RED	623	5519	Z0219	7517 (GE)	721	8500-204	643	15942-1	C6011
4469RED	629	4722VIO	624	5520	Z0220	7518 (GE)	721	8500-206	R0052	17143	253
4470	721	4722YEL	624	5522	Z0222	7519 (GE)	54	8503	721	18509	54
4470-31	721	4727	230	5524	Z0225	7637 (GE)	721	8540	715	18529	253
4470-32	721	4728	Z0439	5526	Z0228	7639 (GE)	721	8800-201	R0053	18530	254
4470-33	721	4729	236	5527	Z0230	7642 (GE)	55	8800-202	729	18540	2
4470ORN	629	4730	627	5528	Z0231	7810	722	8800-203	728	18541	2
4471YEL	629	4732	730	5530	Z0234	7811	722	8800-204	736	18555	54
4472GRN	629	4733	730	5611 673D	242	7812	723	8800-205	703	18601	253
4473	629	4734	728	5611 695C	242	7813	723	8800-206	R0051	18731	253
4473-1	722	4735	600	5612-370C	630	7814	724	8867	716	19278	240
4473-2	724	4736	601	5613-4588	738	7815	724	8999-115	230	22009	S9100
4473-3	724	4737	53	5613-458C	53	7816	725	8999-201	254	22158	736
4473-4	725	4745	708	5613-458D	53	7817	725	8999-202	633	23785 (Syl)	636
4473-5	725	4756	709	5613-458LGC	53	7818	726	8999-203	238	23785-1	636
4473-5X	726	4765	53	5613-460A	53	7874 (Wurlitzer)	C6011	8999-205	R0050	23826	52
4473-6	722	4768	728	5613-460B	53	8000-0004-184	134	9033	736	25202-002	R0050
4473-7	722	4771	620	5613-460C	53	8000-0004-P079	56	9033 (Syl)	728	25642-020	638
4473-8	724	4779	731	5613-461C	53	8000-0004-P080	801	9033G	728	25642-030	638
4473-9	726	4790	601	5613-535A	56	8000-0004-P081	802	9314 (GE)	55	25642-031	638
4473-11	724	4792	310	5613-535B	56	8000-0004-P082	736	9330 011 70112	254	25642-040	638
4473-12	725	4800-220	254	5613-535C	56	8000-0004-P083	S3002	9330 229 60112	734	25642-041	638
4474YEL	629	4800-221	633	5613-1209C	243	8000-0004-P084	S3002	9330 229 70112	734	25642-110	639
4475GRN	629	4800-222	632	5613-1213D	243	8000-0004-P085	53	9330 688 30112	737	25642-115	639
44768LU	630	4800-223	643	5613-1335D	727	8000-0004-P086	641	9330 767 60112	57	25642-120	639
4477VIO	630	4802-00005	247	5613-1335E	727	8000-0004-P088	633	9330 908 10112	57	25651-020	250
4478	710	4802-00006	736	5613-1342C	53	8000-0004-P089	52	9501	737	25651-021	250
4483	724	4802-00007	S3001	5631-1N34A	134	8000-0004-P185	245	9502	737	25651-033	250
4484	637	4802-00008	S3002	5631-1N60	135	8000-0004-060	134	9550-1	C6009	25655-021	250
4484-1 (GE)	52	4802-00009	56	5631-1N60P	135	8000-0004-061	R0054	9600	738	25655-055	250
4484-2 (GE)	52	4802-00010	802	5632-HZ11A	Z0413	8000-0004-062	R0602	9600-5	S0004	25655-056	250
4485	637	4802-00012	56	5632-S1801-02	R0050	8000-0004-063	135	9601	56	25657-050	250
4485-1 (GE)	52	4802-00014	53	5632-W06A	R0050	8000-0004-064	R0052	9914 8-8A	584	25658-120	642
4486	637	4802-00015	53	5632-W06B	R0052	8000-0004-065	Z0219	9914 9-58	584	25658-121	642
4490-2	243	4802-00016	S3020	5633-1S85	R2502	8000-0004-067	R0054	9973	Z0211	25661-020	230
4491-6	701	4802-00017	S3001	5633-1S85W	R2502	8000-0004-068	R0053	9974	Z0214	25661-022	230
4491-9	701	4802-00019	S3002	5635-HZ11A	Z0414	8000-0004-079	56	00002SA50	632	25671-020	709
4501	638	4815	715	5635-ZB1-10	Z0413	8000-0004-080	801	00002SA101	638	25671-021	709
4509	638	4819	712	5641-HV23	R0050	8000-0004-081	802	00002SA564	57	25671-023	709
4510	630	4820	720	6100	254	8000-0004-082	736	00002S8185	631	25672-016	713
4545	640	4821	729	6115 (GE)	Z0411	8000-0004-083	S3002	00002S8187	632	25762-010	713
45458LU	640	4825	732	6151 (RCA)	721	8000-0004-084	S3002	00002S8405	238	25762-012	713
4545WHT	640	4826	727	6158-3 (GE)	55	8000-0004-085	53	00002S8481	642	28222-1	S5003
4552	Z0417	4828-4	135	6181-1	712	8000-0004-086	641	00002S8492	238	28222-2	S5001
45538LU	632	4837	718	6221	F2004	8000-0004-087	S3020	00002SC373	55	28222-3	S5001
45538RN	631	4838	713	6313	637	8000-0004-088	633	00002SC537	56	28222-4	S5001
4553GRN	632	4839	726	6380-1	247	8000-0004-184	134	00002SC606	56	30201	254
4553ORN	631	4840	728	6381-1	703	8000-0004-239	Z0408	00002SC668	56	30202	254
4553RED	631	4841	728	6440	254	8000-0004-241	247	00002SC735	53	30203	230/232
4553VIO	633	4842	728	6445	253	8000-0004-242	53	00002SC772	56	30204	253
4553YEL	632	4843	712	6452	254	8000-0004-243	50	00002SC829	50	30206	253
4562	629	4844	53	6629	R0050	8000-0004-P079	56	00002SC838	728	30207	253
4563	630	4845	733	6629-AO5	R0050	8000-0004-P080	801	00002SC858	55	30208	253
4564	630	4850	Z0414	6990	3	8000-0004-P081	802	00002SC968	243	30208-1	253
4565	631	4851	Z0414	7001 (Johnson)	S9100	80					

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DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
30227	723	40082	S3001	40395	254	40604	F2004	42322	250	72080	135
30229	725	40084	50	40396	641	40605	S3008	42323	240	72106	R2502
30230	3	40108	R0130	40396(N)	641	40608	S3008	42324	633	72111	R0054
30231	2	40109	R0131	40396/P	254	40611	53	42396	802	72113	R0054
30235	726	40110	R0132	40397	55	40612	230	43118	S5001	72113A	R0054
30238	3	40111	R0134	40398	55	40613	701	43119	S5001	72128	135
30239	3	40112	R0134	40399	721	40616	53	43120	S5004	72128A	135
30240	637	40113	R0136	40400	55	40618	701	43121	S0001	72129	135
30241	54	40114	R0136	40403	633	40621	701	43124	S3031	72129A	135
30242	723	40115	R0137	40404	721	40622	245	43125	S3031	72130-1	R0054
30243	723	40143	R0052	40405	53	40623	232	43129	728	72137	R0052
30254	703	40208	R0250	40406	242	40626	232	43133	738	72145	R0054
30256	703	40209	R0251	40407	243	40629	245	43135	728	72148	R9001
30257	240	40210	R0253	40408	714	40630	245	43136	S0003	72151	R0052
30268	725	40211	R0254	40411	S7000	40631	245	43138	S0003	72190	254
30269	736	40212	R0255	40412	S3021	40633	S5004	43139	726	72191	641
30270	716	40213	R0256	40412V1	S3021	40634	242	43959	134	72193	643
30271	246	40214	R0257	40412V2	S3021	40635	243	44001	R0050	72204	55
30272	245	40217	56	40421	232	40636	704	44002	R0052	72206	55
30273	3	40218	50	40422	240	40637	724	44003	R0052	72207	55
30274	3	40219	50	40423	240	40638	R1723	44004	R0053	73201	600
30276	247	40220	50	40424	241	40639	R1725	44005	R0054	73202	601
30289	53	40221	50	40425	240	40656	R1221	44006	R0055	77068-3170756	240
30290	51	40222	50	40426	240	40657	R1222	44007	R0056	78331	716
30291	242+243	40231	50	40427	240	40658	R1221	44465-3	R0052	79408	Z0412
30294	245	40232	50	40429	R1723	40659	R1222	44763	243	79855	729
30302	230/232	40233	50	40430	R1725	40662	R1783	44764	242	79856	722
34174	R0052	40234	50	40432	736	40663	R1785	44765	242+243	79922	703
34401-1	C6012	40235	56	40439	235	40668	R1723	44766	801	79949	Z0432
35044	232	40236	56	40440	234	40669	R1725	45380	594	80050	Z30/232
35045	250	40237	56	40444	S7000	40673	F2004	45381	C6056P	80053	591
35144	232	40238	709	40450	53	40680	R1472	47126-1	R0052	80070	591
35168	640	40239	56	40451	53	40681	R1473	47126-3	R0054	80071	591
35169	2	40240	709	40452	243	40682	R1475	47126-7	R0054	80073	591
35170	2	40242	55	40453	735	40684	R1722	47126-9	R0054	80074	591
35219	Z0415	40243	56	40454	53	40685	R1723	47126-10	R0053	80081	591
35306	R0050	40244	56	40455	735	40686	R1725	47126-12	R0050	80083	591
35333	R0052	40245	55	40456	53	40693	R1722	47126-003	R0050	80090	591
35449	56	40246	55	40457	S3023	40694	R1723	48287	134	80094	591
35452-2	254	40250	241	40458	S3001	40695	R1725	48287-4	135	80249-910787	707
35454-1	254	40250V1	701	40459	243	40713	R1783	48287-004	134	80416C	Z30/232
35454-3	254	40251	704	40461	801	40714	R1785	50477-4	232	80540	55
35524	232	40253	253	40462	232	40716	R1785	50505-01	134	80544	55
35628	254	40254	628	40464	247	40718	R1725	50745-01	R0050	80545	636
35677	254	40256	S3021	40465	247	40719	R1751	50745-02	R0052	80813VM	54
35678	254	40259	709	40466	247	40720	R1752	50745-06	R0050	80814VM	54
35728	254	40260	56	40468	802	40721	R1723	50745-07	R0052	80815VM	54
35815	2	40261	738	40469	56	40722	R1725	50745-08	R0052	80816VM	54
35816	253	40263	254	40470	56	40725	R1725	50957-03	723	80817VM	641
35817	253	40264	S3021	40471	56	40727	R1723	51194	243	80818VM	254
35819	254	40265	R0053	40472	728	40729	R1723	51213	55	88641	R0052
35820-1	254	40266	R0091	40473	738	40730	R1725	51213-2	55	88687	723
35820-2	254	40267	R0092	40474	738	40731	R1723	51428-01	736	88688	55
35820-3	254	40268	3	40475	728	40732	R1725	51429-02	55	88803	735
35824	253	40269	253	40476	56	40733	R1723	51429-03	728	88834	735
35885A	230/232	40280	75	40477	55	40734	R1725	51441	726	88862	55
36145	641	40283	53	40478	56	40741	R1242	51442	55	90203-6	R0053
36212	713	40290	S3008	40479	56	40742	R1243	51545	55	93007	R0053
36212V1	713	40294	56	40480	56	40743	R1245	51547	726	94017	254
36213	S3020	40295	56	40481	56	40744	R1247	51650	232	94033	3
36304	232	40305	S3001	40482	56	40745	R1242	55810-51	135	94036	3
36479	709	40309	53	40487	636	40746	R1243	55810-52	134	94037	739
36503	R0050	40310	241	40488	639	40747	R1245	55810-53	R0052	94038	253
36508	135	40311	53	40489	636	40748	R1247	55810-161	54	94039	254
36539	Z0415	40312	241	40490	251	40753	R1302	55810-162	54	94040	232
36564	R0054	40313	240	40491	240	40754	R1304	55810-163	54	94042	243
36842	S3005	40314	736	40500	53	40755	R1307	55810-164	53	94043	243
36847	S3005	40315	53	40502	R1723	40757	R1302	55810-165	54	94044	722
36913	S3001	40316	241	40503	R1725	40758	R1304	55810-166	243	95008	134
36917	724	40317	736	40504	R1221	40759	R1307	55810-167	C6001	95101	2
37077	241	40318	240	40505	R1222	40761	R1725	55810-168	C6060P	95102	2
37383	54	40319	708	40506	R1223	40762	R1725	57000 5452	722	95103	2
37436	703	40320	736	40507	R1221	40768	R1223	57000-5503	722	95107	2
37680	R0053	40321	S3021	40508	R1222	40777	R1751	58586	601	95108	3
38091	254	40322	240	40509	R1723	40778	R1752	58587	600	95110	3
38094	232	40323	53	40510	R1725	40781	R1751	58759	600	95111	2
38095	739	40324	241	40511	R1723	40782	R1752	58760	601	95112	641
38120	713	40325	704	40512	R1725	40785	R1783	59395	134	95113	641
38121	713	40326	53	40513	S5001	40786	R1785	59600	600	95114	641
38122	S3001	40328	240	40514	247	40789	R1783	59601	601	95115	641
38174	R0054	40329	254	40517	709	40790	R1785	60987	245	95117	641
38177	254	40346	S3021	40518	709	40799	R1751	61003-4	254	95121	2
38178	54	40346V1	S3021	40519	53	40800	R1752	65804-62	2	95127	56
38716	243	40346V2	S3021	40531	R1722	40802	R1783	65804-63	253	95128	56
38785	56	40347	243	40532	R1723	40803	R1785	67193-82	253	95129	56
38786	56	40347V1	S3020	40533	R1725	40808	R0054	67193-85	253	95130	721
38787	55	40347V2	S3020	40534	R1722	40809	R0055	67802	729	95131	56
38788	50	40348	243	40535	R1723	40833	R1223	69107-42	254	95170-1	56
38789	243	40348V1	714	40536	R1725	40834	R1223	69107-43	639	95170-2	56
39458	245	40348V2	714	40537	708	40835	R1223	69107-45	632	95171-1	723
39750	245	40349	S3021	40538	708	40841	F2004	70177A01	C6086P	95201	254
40004	639	40349V1	S3021	40539	736	40852	707	70177A02	C6060P	95202	254
40005	636	40349V2	S3021	40542	247	40853	707	70177A03	C6075P	95203	254
40006	639	40350	55	40543	247	40867	R1221	70177A05	C6076P	95204	254
40022	628	40351	55	40546	240	40868	R1221	70177B02	C6060P	95208	254
40024VM	R0054	40352	55	40547	240	40869	R1222	70434	628	95209	254
40034	254	40354	712	40553	R1221	40885	S3021	70435	250	95211	641
40034VM	251	40355	712	40554	R1222	40893	S3006	70511	725	95212	641
40035	253	40359	250	40555	R1223	41001-4	R0050	71778	134	95213	254
40036	254	40360	S3020	40559	F2005	41178	245	71779	R0054	95214	254
40037	641	40361	243	40577	736	41179	246	71780	20210	95216	53
40037VM	641	40362	708	40578	S3008	41342	700	71783	R0054	95216RED	53
40038	254	40363	704	40581	S3001	41344	701	72003	632	95216VEL	53
40038VM	238	40364	703	40594	S3002	41440	715	72004	633	95218	254
40050	232	40366	714	40595	S3031	42221	R0053	72006	632	95219	

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DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
95226-2	730	112521	53	123792	232	126849	R0054	131242	717	161027	R7000
95226-3	242	112522	53	123804	R0053	126851	20408	131243	721	161030	R0054
95226-4	243	112523	53	123805	254	126852	Z0418	131245	R0050	161033	R0054
95226-003	242	112524	135	123806	1	126855	R0052	131257	247	161034	R7000
95226-004	243	112525	S3021	123807	50	126856	R0050	131311	55	161038	135
95227	715	112526	135	123808	642	126858	R0050	131318	R0054	162002-033	230
95231	801	112528	R0052	123809	250	126861	R0054	131346	R1223	162002-040	640
95232	51	112529	R0052	123813	R0050	126863	R0050	131347	R1223	162002-041	640
95233	243	112530	Z0219	123877	630	126871	C6060P	131454	R1722	162002-042	639
95250	232	112531	R0054	123940	55	126900	707	131475	R0054	162002-090	724
95251	232	113938	56	123941	715	126945	250	131476	R0054	165358	Z0415
95252	244	113998	R0054	123944	51	127017	135	131501	R0056	165667	253
95252-2	240	114267	709	123991	56	127102	R0054	131502	R0054	165735	243
95252-3	240	115063	232	124024	56	127112	254	131543	709	165736	713
95257	232	115101	134	124097	3	127114	254	131544	718	165737	713
95258-1	242	115225	254	124098	R0050	127176	R0054	131545	718	165738	703
95258-2	243	115227	3	124263	56	127177	Z0415	131647	715	165739	170
95296 (Arvin)	S9100	115228	3	124412	56	127297	254	131648	56	165827	55
95298	590	115229	2	124616	242	127354	53	131815	R0052	165828	56
95299-1	593	115268	628	124623	56	127355	53	131848	56	165931	53
97202-222	Z0228	115304	S3001	124624	56	127376	243	131849	245	165932	56
99101	640	115527-1	703	124625	637	127382	Z0418	131950	R0056	165976	251
99102	639	115792	702	124626	250	127396	R0052	132148	P0092	165995	56
99103	2	115867	R0053	124753	714	127397	238	132149	R0054	166400	254
99104	635	115875	54	124754	719	127474	R0602	132175	721	166593	R0050
99105	3	115910	724	124755	715	127529	56	132176	715	166726	R0052
99106	3	116052	R0050	124756	721	127532	134	132326	243	166881	R0054
99107	3	116072	2	124757	709	127589	254	132327	243	166882	251
99108	637	116074	54	124812	R0052	127590	238	132328	243	166883	630
99201	250	116075	S3021	125105	R0054	127693	55	132416	Z0415	166906	50
99201-110	Z0408	116079	54	125126	Z0415	127695	R0052	132445	R0052	166908	638
99201-210	Z0407	116081	712	125127	R0054	127793	54	132446	S3023	166909	638
99201-211	Z0408	116093	230/232	125138	719	127835	R0098	132447	S3027	166917	243
99201-212	Z0408	116199	56	125139	738	127978	245	132448	S3027	166918	245
99201-216	Z0220	116201	250	125140	54	127992	R0050	132492	Z0433	166919	246
99201-219	Z0415	116202	639	125141	738	127993	R0054	132495	52	166920	R0054
99201-221	Z0419	116203	254	125142	715	128343	250	132498	52	166921	Z0217
99201-242	Z0440	116205	254	125143	719	128474	R9001	132499	245	166922	R0054
99201-316	Z0220	116206	250	125144	718	128938	640	132500	243	166985	Z0416
99202-128	Z0426	116207	637	125264	56	128940	253	132509	R0054	166997	253
99202-221	Z0418	116208	637	125330	638	128972	640	132548	R0056	167034	R0052
99202-222	Z0438	116209	3	125389	738	129095	R0602	132549	R0056	167263	53
99203	632	116314	R0700	125390	53	129144	56	132558	235	167285	642
99203-3	R0054	116588	54	125394	55	129145	56	132573	245	167572	135
99203-5	R0054	116685	633	125397	R0602	129146	56	132574	246	167679	254
99203-6	R0056	116686	632	125399	R2502	129147	53	132616	Z0408	168339	R9001
99203-7	R0053	116687	632	125458	R0050	129157	135	132776	S5004	168706	R0600
99203-8	R0056	116757	631	125471	R0054	129203	R3002	132814	S0003	168906	254
99204	254	116996	632	125474	53	129213	R0052	132815	170	168910	135
99205	254	116998	632	125475	50	129284	640	132823	738	168953	641
99206-2	54	117145	R0052	125528	R0052	129286	254	132824	Z0426	168954	630
99207-2	54	117209	633	125529	R0052	129287	640	132830	715	168983	254
99210-204	Z0402	117727	633	125703	232	129291	640	132865	Z0408	168984	254
99218	254	117728	632	125761	232	129314	53	132912	134	169114	R0050
99240-292	248	117730	135	125790	637	129347	637	133171	709	169116	R0054
99252	244	117867	254	125835	R0054	129348	R0050	133177	243	169117	R0600
99252-2	240	118244	R0054	125844	R0054	129389	639	133178	243	169174	56
99252-002	240	118361	591	125972	640	129392	56	133182	52	169175	253
000001S188	134	118825	R0053	125994	53	129393	53	133218	721	169194	56
000001S334	Z0412	118873	R0054	125995	56	129394	53	133253	715	169195	53
000001S553	R2502	119414	56	126023	720	129398	53	133265	S3021	169196	53
013339	R0053	119554	54	126024	720	129507	254	133390	R0054	169197	738
040001	721	119555	54	126025	709	129508	254	133543	R0054	169359	632
043001	56	119556	638	126131	R0053	129509	728	133573	245	169360	632
059395	134	119557	50	126138	240	129510	728	133690	721	169361	632
080224	638	119594	Z0220	126148	R0052	129511	728	134074	R0700	169362	134
080228	638	119596	R0602	126150	723	129512	728	134142	728	169363	R0054
080258	637	119597	R0600	126176	R0054	129513	728	134143	55	169565	R0050
081026	254	119609	591	126177	135	129556	R0700	134144	56	169574	53
081027	254	119635	721	126184	636	129604	56	134263	720	169765	R0050
081029	254	119650	240	126185	639	129697	715	134264	R0700	169771	56
081042	642	119661	R0700	126186	636	129698	53	134417	56	169773	250
081059	254	119662	R0700	126187	251	129699	51	134419	56	170373	134
082006	53	119719	235	126188	240	129759	R0054	134444	50	170376	230/232
082019	53	119721	230	126320	R0052	129802	250	134442	Z0418	170376-1	230/232
082020	53	119728	243	126321	R0600	129897	243	134450	F2004	170388	56
082022	50	119919	135	126334	721	129899	721	134773	740	170407-1	230/232
082028	53	119982	736	126413	R0054	129903	Z0402	134989	720	170479-1	230/232
082033	S3001	120073	54	126524	716	129938	Z0408	134993	Z0407	170666-1	232
084001	716	122074	54	126525	721	129946	Z0418	135284	R0053	170733-1	134
085003	134	120144	250	126526	55	129979	56	135324	F2004	170753-1	720
100471	R9001	121180	R0092	126527	R0050	129980	F2004	135352	707	170756-1	709
100581	R9001	121244	234	126604	C6069G	130013	55	135406	Z0440	170827-1	642
100617	R0053	121467	717	126698	718	130040	S9100	135571	R0054	170890-1	247+248
101973	254	121655	55	126699	714	130044	Z0220	135716	S3021	170891-1	247+248
101974	253	121658	726	126700	714	130045	135	135735	S3023	170906-1	56
103872	R9001	121661	721	126701	714	130046	134	135739	245	170968-1	56
104080	641	121662	721	126703	56	130047	Z0220	135744	235	170970-1	R0054
107628	R9002	121664	729	126704	56	130048	641	135872	134	171009	56
109328	R9001	122129	R0052	126705	56	130096	Z0432	136605	R0056	171010-1	254+641
109474	R9001	122166	135	126707	52	130110	R0052	136634	Z0415	171016	639
110043	R0052	122199	591	126708	640	130130	C6069G	136635	R0054	171026	55
110775	S9100	122243	250	126709	640	130132	Z0228	136648	245	171027	50
111117	635	122244	633	126710	640	130139	52	136688	R0602	171028	709
111118	3	122519	53	126711	721	130278	56	136696	714	171029	709
111278	S0005	122664	54	126712	243	130328	Z0415	136721	Z0426	171030	709
111303	50	122901	253	126713	721	130380	Z0415	137065	245	171031	56
111313	3	122902	723	126714	721	130538	572	137066	246	171032	56
111954	636	122904	720	126715	721	130751	C6063P	137075	R0056	171033	720
111955	636	123139	S0001	126716	721	130761	Z0418	137093	242	171033-1	245+246
111956	3	123244	633	126717	721	130762	Z0419	137			

HEP Semiconductor Replacement Cross-References

DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP		
171162-004	55	489251-097	57	530063-13	134	573475	56	610142-5	54	815069	254		
171162-005	56	489751-001	135	530065-2	135	573480	56	610144-1	56	815070	254		
171162-006	56	489751-020	R0700	530065-3	135	573494	56	610144-2	S3021	815070A	254		
171162-008	54	489751-025	55	530065-1002	134	573495	56	610144-3	S3021	815070B	254		
171162-009	50	489751-026	725	530065-1003	135	573518	640	610144-101	714	815070C	254		
171162-072	254	489751-027	728	530071-2	R0050	573529	253	610145-1	709	815070D	254		
171162-073	254	489751-028	715	530071-3	R0054	601040	637	610146-3	736	815074	254		
171162-074	632	489751-029	54	530072-6	R0050	601113	56	610148-1	243	815103	253		
171162-075	633	489751-030	721	530072-8	135	602032	230/232	610148-2	726	815104	254		
171162-076	632	489751-031	716	530072-9	R0602	602040	253	610150-1	54	815105	253		
171162-080	632	489751-032	246	530072-11	R0602	602075	2	610151-1	56	815114	254		
171162-081	254	489751-033	245	530072-14	R0054	602113	56	610151-3	54	815115	254		
171162-082	232	489751-037	243	530072-15	135	603020	637	610153-1	245	815116	254		
171162-083	642	489751-038	243	530072-1006	R0602	603030	2	610155-1	245	815117	254		
171162-086	232	489751-039	719	530072-1008	134	603031	230/232	610168-1	54	815118	254		
171162-089	643	489751-040	54	530072-1009	R0053	603040	253	610168-2	53	815120	254		
171162-090	642	489751-041	53	530072-1011	R0054	603113	56	610186-1	718	815120A	254		
171162-092	56	489751-042	52	530072-1014	R0053	603114	R0054	611001-3	R1722	815120B	254		
171162-108	238	489751-043	241	530072-1015	R0050	604030	3	611001-4	R1722	815120C	254		
171162-113	56	489751-044	241	530073-2	Z0231	604113	56	611001-5	R1722	815120D	254		
171162-118	719	489751-045	254	530073-3	Z0220	605030	254	611020	253	815120E	254		
171162-119	53	489751-047	56	530073-5	Z0408	605113	53	612005-1	C6063P	815133	54		
171162-120	250	489751-049	56	530073-6	Z0222	606020	254	612005-2	C6063P	815134	54		
171162-121	630	489751-052	720	530073-8	R0053	607030	641	612006-1	C6056P	815136	254		
171162-124	706	489751-058	709	530073-9	Z0418	607101	R9001	612021-1	C6074P	815139	254		
171162-125	706	489751-107	738	530073-13	Z0415	608112	235	614020	135	815171	54		
171162-126	706	489751-108	254	530073-14	Z0415	609020	2	615010	135	815174	54		
171162-128	56	489751-109	254	530073-16	Z0445	610030	134	616010	R9001	815189	636		
171162-129	56	489751-113	250	530073-17	Z0418	610035	254	618139-1	230	815202	54		
171162-130	56	489751-114	250	530073-18	Z0424	610035-1	254	618580	801	815203-3	232		
171162-131	56	489751-115	235	530073-21	R0230	610036-1	254	619550-1	C6009	815203-5	232		
171162-132	50	489751-119	707	530073-22	Z0420	610036-2	254	633977	R9001	815209	729		
171162-143	728	489751-120	709	530073-23	Z0417	610036-3	254	652085	232	815210	721		
171162-161	243	489751-121	709	530073-26	Z0419	610036-4	254	657874	C6011	815211	717		
171162-162	243	489751-122	56	530073-28	Z0230	610036-5	254	660064	1	815212	243		
171162-163	243	489751-123	720	530073-31	Z0407	610036-7	254	660077	232	815213	242		
171162-164	S3020	489751-124	51	530073-1013	Z0415	610039-1	230/232	660084	1	815218-3	245+246		
171162-169	639	489751-127	718	530073-1016	Z0445	610040-1	254	660085	230	815218-4	641		
171206-1	S0008	489751-128	54	530073-1017	Z0418	610040-2	254	660097	702	815227	736		
171206-2	S0009	489751-129	243	530073-1021	Z0230	610041-2	729	660138	233	815228	245+246		
171206-4	56	489751-130	242	530073-1028	Z0421	610041-3	729	660144	R0054	815229	242		
171206-5	56	489751-131	720	530082-3	R0054	610042-1	56	699739	R0090	817053	R0054		
171207-1	56	489751-137	56	530082-4	R0054	610043-3	254	720453	R0091	817064	R0053		
171207-2	56	489751-143	720	530082-1002	R0053	610043-4	253	720454	R0092	817066	R0052		
175007-275	50	489751-144	S0001	530082-1003	R0054	610043-6	253	720455	R0094	817068P	R0052		
175007-276	50	489751-145	53	530082-1004	R0054	610043-7	254	720456	R0094	817074	R9001		
175007-277	243	489751-146	715	530084-4	R0054	610045-3	54	720457	R0096	817077	134		
175027-021	55	489751-147	53	530088-2	R0056	610045-4	54	720458	R0096	817122	R0054		
175027-022	230	489751-148	53	530088-3	R0052	610045-5	54	720463	134	817122	R0054		
175043-023	232	489751-162	720	530088-4	R0052	610050-1	3	742004	3	744002	R9001	817125	135
175043-058	S0002	489751-171	56	530088-1002	R0054	610051-1	3	744006	254	744006	R9001	817126	R9001
175043-059	S0002	489751-172	728	530088-1003	R0052	610052-1	254	746004	R0052	817130	R0054	R0054	
175043-060	S0002	489751-173	738	530088-1004	R0052	610053-2	254	770339	C6001	817149	R0054	R0054	
175043-062	56	489751-174	703	530092-1	135	610053-2	254	770523	254	817155	Z0415	R0054	
175043-063	723	489571-206	53	530092-1001	135	610055-1	3	770524	254	817161	R0054	R0054	
175043-064	723	489751-208	F0021	530092-1002	R0600	610056-1	2	770525	254	817166	R0052	R0052	
175043-065	643	489752-001	135	530093-1	R9001	610056-3	3	770730	740	771907	R0050	817167	135
175043-081	two 642	489752-005	R0053	530097-3	R0602	610056-4	3	770730	707	771909	135	817172	R0052
175043-100	54	489752-013	R0054	530098-1	R0054	610063-1	740	771907	707	771909	135	817172	R0052
175043-107	50	489752-014	R0054	530098-1001	R0052	610064-1	707	771909	232	771910	135	817177	134
183013	594	489752-015	R0054	530104-2	R2502	610068-1	232	771911	135	817179	R9002	817180	R0050
183014	C6056P	489752-016	R0054	530104-1001	R2502	610070-1	725	772173	176	772174	134	817193	R0054
190425	628	489752-017	R9001	530105-1	135	610070-2	726	772173	638	817194	638	817195	R0050
190426	725	489752-020	R0700	530105-1001	135	610070-3	721	772174	638	817199	635	817199	R0050
190427	636	489752-022	R0054	530106-1	R0054	610070-4	55	772716	638	817199	638	817208	Z0415
190428	55	489752-025	R0842	530106-1001	R0054	610071-1	240	772718	638	817209	254	817209	R0050
190429	716	489752-027	R0054	530111-1	R0054	610071-1	240	772718	638	817208	254	817208	R0050
190714	738	489752-028	R0054	530111-1001	R0052	610072-1	56	772719	718	772720	712	772721	54
190715	729	489752-029	R0054	530113-1001	R0054	610073-1	718	772720	712	772721	712	772722	254
190716	135	489752-031	135	530116-1	134	610075-1	712	772721	254	860011	254	860011	R0054
198023-2	243	489752-035	R0052	530116-1001	R0602	610076-1	54	772722	54	772723	254	871125	135
198039-0507	247	489752-036	134	530120-1	R0050	610076-2	721	772722	721	772722	254	880097	643
198063-1	702	489752-040	Z0413	530122-1	R0054	610077-1	135	610077-2	54	772725	632	910799	722
198350-2	248	489752-041	Z0418	530123-1	135	610077-2	54	772725	632	910799	722	910799	722
198794-1	641	489752-042	R0052	530123-3	R0054	610077-4	721	772727	254	910952	700	910952	700
199985	R0054	489752-043	R0054	530123-4	R0052	610077-5	54	772728	254	916028	728	916028	728
200648-26	135	489752-044	R9001	530123-5	R0054	610078-1	54	772729	254	916029	728	916029	728
202463	R0054	489752-045	Z0415	530124-3	R0050	610079-1	253	772732	254	916030	728	916030	728
215002	254	489752-049	135	530129-1	Z0402	610080-1	254	772733	254	916031	725	916031	725
215008	638	489752-050	R0054	530132-1	R3000	610083-1	57	772736	633	916033	53	916033	53
215018	638	489752-051	R0055	530135-1	R0050	610083-2	57	772737	251	916034	243	916034	243
215031	638	489752-052	R0700	530140-1	R2502	610083-3	717	772738	56	916046	245	916046	245
215038	638	489752-066	R0054	530144-1	R0602	610092-1	56	772739	56	916049	56	916049	56
215044	254	489752-072	Z0413	530144-3	R0602	610094-1	726	772740	134	916051	715	916051	715
215053	632	489752-073	R0054	530144-1001	R0600	610099-1	51	801804	C6007	916052	243	916052	243
215060	637	489752-074	R9001	530144-1002	R0602	610099-2	57	814044A	254	916060	720	916060	720
215061	251	489752-075	R0054	530144-1003	R0054	610099-3	254	815020	254	922021	134	922021	134
215071	two 642												

HEP Semiconductor Replacement Cross-References

DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
970659	56	984221	639	0573037	641	1107832-6	R9002	1473566-1	721	2000646-111	238
970660	56	984226	134	0573037H	641	1107832-7	R9001	1473567-1	240	2000648-21	637
970661	54	984227	712	0573040	632	1107832-9	R9001	1473567-2	245	2000648-22	253
970662	54	984228	254	0573055	233	1107832-10	R9001	1473567-4	245	2000648-23	253
970663	57	984229	53	0573056	633	1107832-11	R9001	1473568-1	718	2000648-26	135
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970762	715	984261	232	0573103	632	1221615	232	1473570-1	715	2001653-22	251
970905	728	984521	643	0573114	633	1221648	639	1473571-1	738	2001653-24	254
970911	56	984522	R0052	0573114H	250	1222463	56	1473572-1	54	2001809-47	631
970916	721	984577	56	0573117	254	1320135	728	1473572-3	243	2001809-48	633
971457	R0052	984590	55	0573119	633	1408615-1	56	1473574-1	715	2001812-65	637
971458	R0054	984591	729	0573125	254	1408649-1	56	1473576-1	719	2002151-18	637
971459	55	984593	53	0573131	633	1415721-1	R0056	1473577-1	738	2002151-19	632
971460	55	984594	R0052	0573139	641	1442415-2	R0700	1473578-1	250	2002151-20	134
971477	632	984608	240	0573142	254	1442415-3	R0700	1473581-1	715	2002152-14	632
972258-8	135	984666	134	0573142H	250	1444875-1	Z0415	1473582-1	55	2002153-60	639
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973936-7	R0054	984686	73	0573153	250	1445829-501	S3027	1473585-6	R1223	2002207-2	R2502
973936-12	R0054	984687	58	0573153H	250	1445829-502	S3027	1473585-7	R1223	2002209-1	Z0412
973936-18	R0054	984688	R0054	0573166	232	1445829-503	S3023	1473585-8	R1223	2002332-57	R0054
973936-20	R0054	984690	R0054	0573166H	232	1445829-504	S3023	1473586-2	721	2002336-19	254
980505	637	984746	254	0573185	254	1462434-1	C6060P	1473589-1	53	2002336-20	135
980506	637	984875	53	0573187	251	1462445-1	C6069G	1473590-1	715	2002402-29	R0602
980507	639	984876	56	0573199	625	1462516-1	C6063P	1473591-1	51	2002403-19	633
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980510	254	984878	53	0573200	254	1463677-2	C6069G	1473595-1	56	2003073-9	56
980511	633	984879	738	0573202	50	1463677-3	C6069G	1473597-1	52	2003073-68	R0050
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980960	254	984882	R0052	0573205	232	1464295-1	C6014	1473598-2	242	2003342-109	56
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981143	637	985097	53	0573212H	643	1464778-9	R0054	1473603-1	243	2003779-22	56
981144	637	985098	738	0573228	253	1470872-6	R0052	1473604-1	S9100	2003779-23	50
981145	639	985100	53	0573335	637	1471072-4	R0052	1473604-3	50	2003779-24	50
981146	637	985101	53	0573366	637	1471112-7	715	1473606-1	56	2003779-25	55
981147	250	985103	two 642	0573398	639	1471112-8	717	1473608-1	243	2004358-123	254
981148	250	985104	R0050	0573415	240	1471112-10	715	1473608-2	243	2004358-142	R0052
981149	250	985114	53	0573422	635	1471113-2	736	1473611-1	245	2004588-168	254
981151	134	985176	Z0417	0573422H	635	1471120-7	721	1473612-1	245	2006226-14	250
981153	134	985442	50	0573428	637	1471120-8	721	1473613-2	714	2006227-51	53
981445	R0050	985443	50	0573430	738	1471123-3	243	1473613-4	S3021	2006334-31	630
981522	134	985444	50	0573468	719	1471125-3	234	1473615-1	721	2006334-115	53
981952	R0054	985445	638	0573469	719	1471132-2	245	1473616-1	715	2006334-155	53
981953	R0054	985446	638	0573469H	723	1471132-3	245	1473617-1	56	2006441-91	R0052
981954	R0054	985468	254	0573474	709	1471132-4	245	1473618-1	F2004	2006441-113	254
981955	R0054	985469	632	0573474H	709	1471132-5	245	1473619-1	R1722	2006441-122	135
981956	R0054	985470	238	0573475	718	1471132-6	247	1473620-1	52	2006441-123	R2502
981959	R0055	985472	R0050	0573479	53	1471135-1	S5004	1473621-1	245	2006512-79	R9001
982065	134	985609	250	0573479H	738	1471405-1	R0092	1473622-1	721	2006512-80	R0053
982244	254	985610	250	0573480	738	1471872-1	R0602	1473622-2	243	2006513-39	66
982253	R0054	985619	56	0573480H	53	1471872-2	R0600	1473623-1	245	2006514-59	54
982254	Z0412	985715	802	0573481	53	1471872-3	R0056	1473624-1	246	2006514-60	53
982267	640	985735	641	0573481H	53	1471872-4	R0600	1473625-1	738	2006514-61	53
982268	723	986305	238	0573485	53	1471872-6	R0602	1473627-1	715	2006582-20	134
982269	723	986414	R0054	0573486	53	1471872-8	R0054	1473628-2	S3021	2006582-21	R0050
982270	135	986765	632	0573486H	53	1471872-10	R9001	1473628-3	246	2006582-23	R0053
982271	135	991021	580	0573487	53	1471872-12	134	1473629-3	245	2006582-25	738
982275	135	991029	580	0573487H	53	1471872-13	135	1473631-1	243	2006607-59	230
982283	633	991064	R0053	0573490	53	1471872-14	R0056	1473632-2	245	2006607-60	736
982284	632	991129	581	0573491	53	1471872-15	134	1473634-1	740	2006607-61	S3001
982285	254	991421	584	0573491H	53	1471872-17	134	1473637-1	707	2006613-77	728
982289	253	991422	584	0573492	53	1471898-3	Z0408	1473640-1	S3023	2006623-47	802
982290	135	991429	584	0573494	56	1471898-4	Z0433	1473648-1	235	2006623-48	R0050
982300	243	995016	728	0573495	56	1471922-1	R0700	1473652-1	56	2006623-49	R0054
982311	56	995017	738	0573501	706	1472460-13	R0050	1473666-1	721	2006623-88	245
982322	3	995030	240	0573506	56	1472460-14	R0050	1473676-1	718	2006623-128	S3001
982361	R9001	0000000FR1	R0054	0573507	53	1472460-16	R0050	1474777-1	Z0415	2006623-145	55
982374	639	0000000MV4	R0602	0573507H	53	1472474-2	712	1474777-2	Z0418	2006681-93	56
982375	633	0000010DC1	R0091	0573509	56	1472634-1	56	1474778-2	R0054	2006681-94	56
982376	240	0004201	632	0573509H	56	1473502-1	591	1474778-3	R0052	2006681-95	53
982377	R0054	0004202	633	0573510	56	1473508-1	243	1474778-4	R0052	2006681-96	56
982497	639	0004203	643	0573510H	56	1473514-1	235	1474778-5	R0050	2006681-120	254
982511	728	0011193	Z0217	0573511	50	1473515-1	230	1474778-7	R0054	2008292-56	55
982512	55	0012060	135	0573511H	56	1473516-1	242	1474778-8	R0098	2008292-87	638
982523	703	0014352	R2502	0573515	240	1473519-1	721	1474778-9	R0054	2008292-89	R0050
982526	R0050	0015107	R0050	0573515H	240	1473520-1	240	1474778-10	R0052	2008292-109	254
982531	633	0022481	642	0573517	75	1473524-2	56	1474778-11	R0054	2008292-111	254
982532	633	0023645	720	0573518	639	1473530-1	56	1474778-13	170	2008299-1	53
982815	56	0023828	54	0573519	713	1473530-2	720	1474778-14	R0092	2008299-2	135
982816	56	0023829	50	0573522	719	1473532-1	56	1474788-10	R0052	2008299-3	R0050
982817	56	0112945	175	0573523	738	1473533-1	56	1474872-1	R0602	2008300-103	56
982818	56	0320031	53	0573525	241	1473535-1	709	1476171-11	R0054	2008300-104	56
982819	56	0320051	712	0573526	707	1473536-1	714	1476171-12	R0054	2052055-0708	R0700
982820	254	0330302	Z0415	0573527	243	1473537-1	718	1476171-13	R0054	2057013-0004	51
982822	134	0517750	R0050	0573529	253	1473538-1	714	1476171-21	R0092	2057013-0007	242
982823	134	0517826	134	0573532	719	1473539-1	721	1476171-24	R0602	2057013-0008	242
983012	633	0525002	135	0573541	243	1473540-1	714	1476171-26	R0056	2057013-0012	242
983099	135	0551029	175	0573542	708	1473541-1	714	1476171-27	R0054	2057013-0701	51
983101	R0050	0552005	R0054	0573562	704	1473544-1	721	1476179-1	135	2057013-0702	51
983236	639	0552006	R0053	0573570	56	1473545-1	56	1476188-1	R0050	2057013-0703	242
983237	254	0552007	R0052	0573607	53	1473546-1	56	1477022-1	R0602	2057062-0702	R0050
983238	632	0552010	R0053	0573742	254	1473546-2	254	1477046-1	Z0418	2090056-1	230/232
983239	134	0573001	1	0575001	134	1473547-1	134	1477046-4	Z0415	2090056-5	230/232
983271	253	0573003	632	0575001H	135	1473549-1					

HEP Semiconductor Replacement Cross-References

DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
2091251-15A	253	2320084	703	2904014	232	7303120	53	8034903	703	23115115	134
2091260-1	254	2320092	642	2904037	S3006	7311325	C6082P	8035180	707	23115117	R0054
2091260-2	254	2320111	53	3170757	706	7570003-01	232	8037330	729	23115118	R0053
2091260-3	641	2320141	718	3403787	729	7570004-01	53	8037332	729	23115120	R0054
2091578-1	254	2320141H	709	3596063	717	7570005-01	54	8037333	729	23115121	R0700
2091858-11	230/232	2320161	708	3596067	54	7570005-02	723	8037343	713	23115130	R0050
2091859-2	230/232	2320191	706	3596068	54	7570005-03	54	8037353	53	23115131	R0050
2091859-4	230/232	2320201	234	3596069	54	7570008-02	736	8051060	135	23115140	R0052
2091859-6	232	2320221	240	3596070	54	7570009-01	736	8052446	135	23115145	R0052
2091859-8	232	2320222	240	3596071	54	7570009-21	53	8518383P1	R0160	23115199	R0052
2091859-9	232	2320261	633	3596072	54	7570011-01	R0050	8518383P2	R0162	23115200	R0050
2091859-10	230/232	2320271	707	3596091	701	7570011-02	R0053	8518383P3	R0162	23115201	R0054
2091859-11	230/232	2320281	740	3596092	701	7570014	R0092	00000001N60	135	23124037	56
2091859-0008	230/232	2320291	740	3596100	700	7570016-02	700	13030189	R0054	23126177	720
2091859-0011	232	2320302	250	3596101	700	7570016-03	134	13030192	R0054	23126183	720
2091859-0025	232	2320302H	250	3596116	721	7570024-02	R0050	13030256	R0053	23126184	53
2091859-0712	232	2320331	641	3596117	721	7570030-01	246	13030266	R0602	23126289	56
2091859-0713	232	2320413	641	3596118	717	7570031-01	245	13030285	Z0217	23126290	56
2091859-0714	232	2320422	633	3596128	700+701	7570032-01	242	13030301	134	23126291	56
2091859-0715	232	2320441	738	4080187-0502	two 247	7570215-21	R0054	13030312	134	25114101	250
2091859-0716	232	2320471	56	4080187-0506	703	7851323	636	13030313	R0054	25114102	633
2091859-0717	232	2320471H	56	4080187-0507	247	7851325	55	13030401	Z0416	25114103	632
2091859-0718	232	2320482	245	4080835-0002	703	7851326	50	13040089	641	25114104	254
2092055-1	134	2320482H	245	4080838-002	703	7851327	55	13040095	254	25114116	55
2092055-0001	134	2320514	635	4080838-0001	703	7851328-01	175	13040096	641	25114121	55
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2092055-0007	134	2320596	243	4080866-0006	245	7851947-01	135	13040236	253	25114143	241
2092055-0016	Z0407	2320631	242	4080866-0007	703	7851949-01	728	13040304	734	25114161	729
2092055-0017	Z0217	2320646	243	4080866-0012	245	7851952-01	728	13040313	55	25115102	135
2092055-0018	Z0409	2320647	243	4080866-0013	245	7851953-01	55	13040317	55	25115108	R0054
2092055-0024	Z0423	2320651	245	4080873-0001	245	7851955-01	643	13040318	55	26010006	802
2092055-0027	Z0411	2330001	R0054	4080879-0001	700	7852223-01	134	13040347	641+250	26010010	S3001
2092055-0708	R0700	2330011H	R0050	4080879-0006	245	7852264-01	R0054	13040349	643	26010016	52
2092055-0710	Z0410	2330021	Z0408	4080879-0015	701	7852438-01	134	13040352	55	26010020	55
2092055-0712	Z0411	2330191	R0056	4082501-0001	232	7852439-01	R0050	13040357	254	26010021	53
2092055-0713	134	2330201	R0050	4082671-0002	S9100	7852454-01	730	13040362	734	26010022	S3002
2092055-0714	134	2330211	R0056	4082748-0002	Z0407	7852455-01	729	13040421	734	26010023	730
2092417-1	3	2330251	R0050	4082873-0001	246	7852459-01	53	13040429	52	26010024	701
2092417-2	3	2330251H	R0050	4082886-0002	245	7852577-01	R0050	13040456	238	26010026	56
2092417-3	3	2330252	R0054	4084114-0001	F2004	7852775-01	1	13040459	734	26010027	51
2092417-6	3	2330253	R0056	4084114-0002	F2004	7852776-01	254	13050221	R0050	26010029	Z0408
2092417-0017	55	2330302	Z0410	4813466	54	7852778-01	633	20115270	135	27113100	R0050
2092417-0018	55	2330302H	Z0415	4999774	232	7852779-01	254	23114001	56	27123150	134
2092417-0019	55	2330351	R0050	4999775	232	7852781-01	738	23114007	713	27123220	R0054
2092417-0708	3	2330352	R0050	4999885	237	7852782-01	134	23114015	53	27123240	134
2092417-0709	3	2330361	R0052	4999887	251	7852899-01	639	23114017	53	27125080	54
2092417-0711	55	2330611	R0050	5320003	703	7852900-01	637	23114023	56	27125090	54
2092417-0712	55	2485076-2	243	5320022	738	7853099-01	R0050	23114031	709	27125140	724
2092417-0713	55	2485076-3	243	5320023	53	7853351-01	250	23114033	643	27125150	254
2092417-0714	55	2485077-2	243	5320023H	53	7853352-01	633	23114034	709	27125160	55
2092417-0715	728	2485077-3	243	5320042H	708	7853354-01	254	23114036	56	27125170	238
2092417-0716	728	2485078-1	50	5320043H	708	7853356-01	632	23114038	241	27125180	632
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2092418-2	3	2485079-1	55	5320064H	53	7853463-01	53	23114050	52	27125300	735
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2092418-7	3	2485080	135	5320101	253	7855283-01	243	23114053	713	27125340	633
2092418-071	3	2495012	251	5320111	715	7855284-01	R0050	23114054	713	27125350	632
2092418-0022	55	2495013	251	5320151	S3001	7855291-01	55	23114056	56	27125360	253
2092418-0023	55	2495014	254	5320205	641	7855292-01	55	23114057	56	27125460	50
2092418-0024	55	2495078	637	5320241	53	7855293-01	55	23114078	720	27125470	55
2092418-0711	641	2495079	637	5320295	641	7855294-01	55	23114082	56	27125480	254
2092418-0712	3	2495080	639	5320296	631	7855295-01	643	23114086	703	27125490	641
2092418-0715	55	2495082	633	5320305	633	7855296-01	632	23114088	241	27125500	724
2092418-0716	55	2495083	135	5320306	641	7855297-01	632	23114095	713	27125540	638
2092418-0717	55	2495200	251	5320361	641	7855298-01	245	23114104	713	27125550	232
2092418-0718	55	2495376	52	5320372	736	7910070-01	254	23114109	56	27126130	56
2092418-0719	728	2495377	3	5320372H	736	7910071-01	632	23114118	53	41020618	R0098
2092418-0720	728	2495378	639	5320373	736	7910072-01	230	23114119	53	41023224	R0054
2092418-0721	728	2495379	639	5320433	245	7910073-01	245	23114124	52	41025773	R0052
2092609-1	641	2495388	633	5320492H	245	7910108-01	56	23114125	712	41025849	R0052
2092609-2	641	2495388-1	633	5320501	736	7910134-01	802	23114126	56	41522875	134
2092609-3	54	2495388-2	633	5320511	S3001	7910584-01	53	23114127	56	41525771	134
2092609-0001	54	2495488-1	639	5320592	242	7910585-01	53	23114131	246	41525772	134
2092609-0002	54	2495488-2	639	5320642	S3023	7910586-01	53	23114132	245	42025850	Z0222
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2092609-0023	53	2495521	50	5320671	245	7910588-01	633	23114134	245	43021198	243
2092609-0024	53	2495522-1	50	5330001	R0052	7910589-01	630	23114136	52	43022860	723
2092609-0025	53	2495522-4	50	5330011	Z0412	7910780-01	56	23114155	55	43022861	723
2092609-0026	53	2495523-1	50	5330012	Z0412	7910781-01	56	23114163	709	43023190	247
2092609-0027	53	2495529	134	5330041	R0054	7910783-01	638	23114164	719	43023212	726
2092609-0028	53	2495567-2	632	5330042	R0050	7910784-01	R2501	23114171	56	43023221	736
2092609-0705	54	2495567-3	632	5330051	Z0412	7910801-01	633	23114180	56	43023222	716
2092609-0706	54	2495568-2	633	5330101	R0050	7910803-01	238	23114181	720	43023223	716
2092609-0707	54	2496125-2	50	5330101H	R0050	7910804-01	631	23114211	632	43023843	247
2092609-0713	54	2496436	135	5330102	R0052	7910805-01	R0054	23114212	55	43023844	726
2092609-0715	54	2497473-1	254	5330102H	R0054	7910872-01	R0050	23114213	55	43023845	242
2092609-0718	54	2497496	632	5330104	R0050	7910873-01	R0051	23114214	55	43024216	704
2092609-0720	54	2498456-2	56	5330131	R0050	7914009-01	56	23114215	55	43024218	S3002

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DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
80105300	639	A1B1	R0052	A3A9	R0050	A5A-2	701	A7A9	R0090	A13F2	R0052
80205400	633	A1B5	R0052	A3B1	R0052	A5A-3	245	A7B	240	A13M2	R0055
80205600	632	A1B9	R0052	A3B3	R0052	A5A-4	245	A7B1	R0091	A13N1	50
80226310	254	A1C	740	A3B5	R0050	A5A5	R0050	A7B5	R0091	A14-1001	639
80236400	254	A1C1	R0052	A3B9	R0052	A5A-5	245	A7B9	R0091	A14-1002	639
80236430	254	A1C5	R0052	A3C	727	A5A9	R0050	A7C	R0053	A14-1003	639
80243900	254	A1C9	R0052	A3C1	R0052	A5B	243	A7C (Motorola)	701	A14-1004	633
80318250	56	A1D	R0052	A3C3	R0052	A5B1	R0052	A7C1	R0092	A14-1005	633
80337390	55	A1D1	R0053	A3C5	R0052	A5B2	R0052	A7C5	R0092	A14-1006	633
80338030	56	A1D5	R0053	A3C9	R0052	A5B5	R0052	A7C9	R0092	A14-1007	632
80338040	56	A1D9	R0053	A3D1	R0053	A5B9	R0052	A7D	R0053	A14-1008	632
80339430	53	A1E	719	A3D3	R0053	A5C	736	A7D1	R0094	A14-1009	632
80339440	53	A1E1	R0053	A3D5	R0053	A5C1	R0052	A7D5	R0094	A14-1010	632
80383840	728	A1E5	R0053	A3D9	R0053	A5C2	R0052	A7D9	R0094	A14A	R0052
80383930	728	A1E9	R0053	A3E	721	A5C5	R0052	A7E	S0007	A14C	R0053
80383940	728	A1F	53	A3E1	R0053	A5C9	R0052	A7E1	R0094	A14E	R0054
80389910	729	A1F1	R0054	A3E3	R0053	A5D	S3020	A7E5	R0094	A14F	R0050
80414120	243	A1F5	R0054	A3E5	R0053	A5D1	R0053	A7E9	R0094	A14P	R0056
80414130	703	A1F9	R0054	A3E9	R0053	A5D2	R0053	A7F	S3020	A15-1001	639
80421980	243	A1G	734	A3F	736	A5D5	R0053	A7F1	R0096	A15-1002	639
80510600	135	A1G1	R0054	A3F1	R0054	A5D9	R0053	A7F5	R0096	A15-1003	639
83073205	730	A1G-1	R0054	A3F3	R0054	A5E	S3020	A7F9	R0096	A15-1004	633
83073206	730	A1G5	R0054	A3F5	R0054	A5E1	R0053	A7G	R0052	A15-1005	632
83073304	729	A1G9	R0054	A3F9	R0054	A5E2	R0053	A7G1	R0096	A15-1007	135
83073305	729	A1H	736	A3G	730	A5E5	R0053	A7G5	R0096	A15-1008	R0050
83073504	53	A1H1	R0055	A3G1	R0054	A5E9	R0053	A7G9	R0096	A15D	R0104
83093005	56	A1H5	R0055	A3G3	R0054	A5F	714	A7H1	R0097	A15F	R0090
83094502	728	A1H9	R0055	A3G5	R0054	A5F1	R0054	A7H5	R0097	A22B	R0092
84026103	53	A1J	735	A3G9	R0054	A5F2	R0054	A7H9	R0097	A22B1	R0092
86401000	55	A1K	722	A3H	740	A5F5	R0054	A7K1	R0097	A22D	R0092
87100600	135	A1K1	R0055	A3H1	R0055	A5F9	R0054	A7K5	R0097	A22D1	R0092
87204260	135	A1K5	R0055	A3H-1	R0055	A5G	S5003	A7K9	R0097	A22M	R0092
87205530	R2502	A1K9	R0055	A3H3	R0055	A5G1	R0054	A7M	704	A23B	R0162
87219410	R0052	A1L	728	A3H5	R0055	A5G2	R0054	A7M1	R0098	A2381	R0162
87500620	134	A1M	712	A3H9	R0055	A5G5	R0054	A7M5	R0098	A25-1001	639
87500720	R0052	A1M1	R0056	A3J	724	A5G9	R0054	A7M9	R0098	A25-1002	639
87500920	Z0412	A1M-1	734	A3K	737	A5H	53	A7M42894839	C6064P	A25-1003	639
90270020	R1221	A1M5	R0056	A3K3	R0055	A5H1	R0055	A7N	722	A25-1004	633
91056140	715	A1M9	R0056	A3K5	R0055	A5H2	R0055	A7P	723	A25-1005	632
92005600	632	A1N	240	A3K9	R0055	A5H5	R0055	A7R	725	A25-1006	632
93037240	55	A1P	732	A3L	244	A5H9	R0055	A7S	735	A28A	R0162
93073260	730	A1P-1	732	A3M	706	A5J	723	A7T	728	A28B	R0162
93073350	53	A1R	731	A3M1	R0056	A5K	724	A7U	56	A28F	R0160
93073440	713	A1R-1	731	A3M3	R0056	A5K2	R0055	A7V	56	A40A	R0251
93073540	53	A1R-2	731	A3M5	R0056	A5K5	R0055	A7W	56	A40B	R0253
000071090	642	A1S	706	A3M9	R0056	A5K9	R0055	A7Y	738	A40C	R0254
000072020	R0054	A1T	735	A3N	735	A5L	726	A7Z	S5003	A40D	R0255
000073100	53	A1T-1	735	A3P	733	A5M	738	A8A	S0001	A40E	R0256
000073110	243	A1U	56	A3R	733	A5M1	R0056	A8B	735	A40F	R0250
000073120	54	A1V	735	A3S	713	A5M2	R0056	A8C	246	A40M	R0257
000073130	54	A1W	53	A3T	736	A5M5	R0056	A8D	243	A41A	R0251
440008101	R0051	A1Y	703	A3U	704	A5M9	R0056	A8E	S5004	A41B	R0253
440008401	R0052	A1Z	718	A3W	738	A5N	728	A8F	S5003	A41C	R0254
440009905	R0600	A2A	713	A3Y	714	A5P	738	A8G	735	A41D	R0255
450008401	R0052	A2A1	R0050	A3Z	721	A5R	736	A8H	S3008	A41E	R0256
450013800	709	A2A4	R0050	A4A	737	A5S	728	A8J	S3023	A41F	R0250
450014600	709	A2A5	R0050	A4A1	R0050	A5T	S3021	A8K	S5003	A41M	R0257
1522210300	253	A2A9	R0050	A4A5	R0050	A5T-1	S3022	A8L	735	A44A	R0222
1522211200	254	A2B	736	A4A9	R0050	A5T2907	716	A8M	707	A44AR	R0222R
1522214400	637	A2B1	R0052	A4B	737	A5T3821	802	A8N	S0001	A44B	R0222
1522216500	250	A2B4	R0052	A4B1	R0052	A5T3904	S0004	A8P	704	A44B	R0222R
1522216600	639	A2B5	R0052	A4B5	R0052	A5U	728	A8R	738	A50	R0050
1522217400	3	A2B9	R0052	A4B9	R0052	A5V	S7000	A8S	56	A86-9-1	R9001
1522270100	134	A2C	733	A4C1	R0052	A5W	724	A8T	740	A95-5280	R9001
4202003173	R0053	A2C1	R0052	A4C5	R0052	A5Y	S5000	A8U	704	A95-5297	R9001
4202003500	134	A2C4	R0052	A4C9	R0052	A6A	740	A8V	706	A054-103	135
4202003571	134	A2C5	R0052	A4D1	R0053	A6A1	R0090	A8W	704	A054-114	55
4202005000	R9001	A2C9	R0052	A4D5	R0053	A6A5	R0090	A8Y	701	A054-119	R0050
4202104170	R0054	A2D	56	A4D9	R0053	A6A9	R0090	A8Z	S0001	A054-142	F2005
4202104570	R0054	A2D1	R0053	A4E	724	A6B	723	A9A	56	A054-148	53
4202104770	254	A2D4	R0053	A4E1	R0053	A6B1	R0092	A9B	736	A054-170	718
4202104870	R0054	A2D5	R0053	A4E5	R0053	A6B5	R0092	A9C	S9100	A054-173	55
4202104970	R0050	A2D9	R0053	A4E9	R0053	A6B9	R0092	A9D	56	A054-175	53
4202105470	Z0410	A2E	704	A4F	737	A6C	701	A9E	S0002	A054-186	713
4204104570	134	A2E1	R0053	A4F1	R0054	A6CGRN	701	A9F	S0002	A054-187	134
9511410100	250	A2E4	R0053	A4F5	R0054	A6C-1	701	A9G	S0004	A054-195	55
9511410200	633	A2E5	R0053	A4F9	R0054	A6C-1RED	701	A9H	728	A054-206	713
9511410900	250	A2E9	R0053	A4G	718	A6C-2	701	A9J	725	A054-221	728
9511414000	643	A2EBLK	704	A4G1	R0054	A6C-2BLK	701	A9K	707	A054-222	728
9511510200	135	A2EBRN	704	A4G5	R0054	A6C-3	701	A9L	S9140	A054-223	715
9511511500	R0052	A2F	56	A4G9	R0054	A6C-3WHT	701	A9N	247	A054-224	703
16207190405	238	A2H9	R0055	A4H	713	A6C5	R0092	A9P	707	A054-225	243
16501190016	R0050	A2J	736	A4H1	R0055	A6C9	R0092	A9R	740	A054-226	134
310720440170	230	A2K	713	A4H5	R0055	A6D	S3023	A9S	S0004	A054-229	two R0052
310720490000	50	A2K4	R0055	A4H9	R0055	A6D-1	S3020	A9T	56	A054-230	R0054
310720490010	55	A2K5	R0055	A4J8LK	247	A6D-2	S3025	A9U	56	A054-232	Z0228
310720490020	55	A2K9	R0055	A4J8RN	247	A6D-3	S3026	A9V	245	A054-233	53
310720490060	246	A2L	727	A4JRED	704	A6E	718	A9W	725	A054-234	55
310720490070	232	A2M	734	A4K	701	A6F	56	A9Y	728	A059-100	639
310720490080	56	A2M1	R0056	A4K5	R0055	A6G	S3023	A01	3	A059-101	639
310720490100	728	A2M-1	734	A4K9	R0055	A6H	728	A02	134	A059-102	639
310720490190	two 230	A2M4	R0056	A4M	736	A6J	738	A05	R0050	A059-103	639
404100010160	250	A2M5	R0056	A4M1	R0056	A6K	738	A06-1-12	53	A059-104	639
404100020120	633	A2M9	R0056	A4M5	R0056	A6LBLK	704	A10A	R0092	A059-105	639
404100030180	254	A2N	734	A4M9	R0056	A6LBRN	704	A10B	R0092	A059-106	640
404100900160	50	A2N-1	734	A4N	729	A6LRED	704	A10C	R0053	A059-107	639
404120010180	135	A2N-2	734	A4P	728	A6M	740	A10D	R0053	A059-108	643
404120030110	R0602	A2N2156	233	A4R	55	A6N	247	A10E	R0054	A059-109	53
404120040100	134	A2P	734	A4S	704	A6P	723	A10G04-703-A	238	A059-110	S3002
404130010150	R0050	A2S	704	A4T	56	A6R	724	A10G05-010-A	55	A059-111	S3002
404129919179	135	A2T	738	A4U	56	A6S	725	A10G05-011-A	55	A059-114	175
933001170112	254	A2U	240	A4V	56	A6T	720	A10G05-015-D	55	A059-115	230
933022960012	734	A2V	56	A4W	721	A6U	R10M	A10M	R0096	A059-116	254
933022960112	734	A2W	737	A4Y-1	733	A6V	719	A10N	R0055	A059-117	Z0410
933022970112	706	A2Y	734	A4Y-2	725	A6W	S5003	A10P	R0056	A059-118	R0054
A1A	706	A2Z	713	A4Z	247	A6Y	S3020	A13A2	R0052	A060-100	50
A1A1	R0050	A3A	727	A5A	701	A6Z	740	A13B2	R0053	A061-105	53
A1A5	R0050	A3A1	R0050	A5A1	R0050	A7A	726	A13C2	R0053	A061-106	53
A1A9	R0050	A3A3	R0050	A5A-1	701	A7A1	R0090	A13D2	R0053	A061-107	640
A1B	53	A3A5	R0050	A5A2	R						

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DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
A061-109	53	A214	S3008	A-0205	R0054	AA130	135	AC600	R0096	AF137	636
A061-110	639	A230	S3008	A1000	R0056	AA131	134	AC800	R0097	AF138	636
A061-111	639	A244(AMC)	709	A1109	50	AA134	134	AC1000	R0098	AF139	3
A061-112	53	A245	S3006	A1170	56	AA135	135	ACR83-1001	639	AF143	3
A061-114	251	A245(AMC)	720	A1220	639	AA136	134	ACR83-1002	639	AF144	3
A061-115	632	A246	S3006	A1243	3	AA137	135	ACR83-1003	639	AF146	3
A061-116	642	A246(AMC)	53	A1377	638	AA138	135	ACR83-1004	633	AF147	3
A065-101	R0052	A247	S3006	A1378	635	AA140	135	ACR83-1005	632	AF148	3
A065-105	254	A247(AMC)	706	A1379	50	AA142	135	ACR83-1006	632	AF149	3
A065-106	632	A248(AMC)	738	A1380	55	AA200	R0052	ACR83-1007	135	AF150	3
A065-108	55	A249(AMC)	736	A1383	635	AA300	R0053	ACR83-1008	R0054	AF164	3
A065-109	729	A253	S3006	A1384	635	AA400	R0053	ACR810-101	639	AF165	3
A065-110	50	A270	S3001	A1392	644	AA500	R0054	ACR810-102	639	AF166	3
A065-111	643	A271	S3006	A1409	712	AA600	R0054	ACR810-103	639	AF168	3
A065-112	254	A274	S3001	A1460	730	AA800	R0055	ACR810-104	633	AF169	3
A065-113	728	A275	S3006	A1462	50	AA1000	R0056	ACR810-105	632	AF170	3
A065-109	55	A276	S3006	A1518	722	AA110-120	R0131	ACR810-106	632	AF171	3
A066-110	802	A277	S3007	A1519	723	AA115	135	ACY17	253	AF172	2
A066-111	56	A300	R0053	A1520	724	AA118	134	ACY18	253	AF178	3
A066-112	55	A301	50	A1521	725	AA122	135	ACY19	253	AF179	2
A066-113	52	A306	50	A2332	709	AA127	135	ACY20	254	AF180	2
A066-114	245	A307	50	A2410	736	AA300	134	ACY21	254	AF181	2
A066-115	56	A310	712	A2411	736	AA330	135	ACY22	254	AF182	2
A066-116	53	A311	713	A2412	736	AA466	134	ACY23	254	AF185	2
A066-117	243	A321	55	A2413	719	AA139	135	ACY27	254	AF186	2
A066-118	51	A322	55	A2414	238	AA218	134	ACY28	254	AF186G	2
A066-143	730	A323	55	A2415	241	AA218BD	R0050	ACY29	254	AF186WG	2
A068-100	R0054	A324	55	A2416	S3001	A850	R0090	ACY30	254	AF187	250
A068-101	134	A344	50	A2417	644	A8100	R0091	ACY31	254	AF188	254
A068-102	R0050	A345	50	A2418	704	A8200	R0092	ACY32	254	AF192	641
A068-103	Z0412	A346	50	A2419	135	A8300	R0094	ACY33	254	AF193	637
A068-104	R0050	A400	R0053	A2420	134	A8400	R0094	ACY34	253	AF200	254
A068-105	590	A411	638	A2421	R0053	A8500	R0096	ACY35	253	AF201	254
A068-106	802	A415	734	A2422	R0054	A8600	R0096	ACY36	253	AF202	254
A068-107	802	A417	734	A2423	R0050	A8800	R0097	ACY38	251	AF202L	2
A068-108	55	A418	709	A2428	716	A81000	R0098	ACY39	239	AF202S	254
A068-109	716	A419	709	A2460	R0050	AC50	R0090	ACY40	253	AF239	637
A068-111	56	A420	709	A2461	R0054	AC100	R0091	ACY41	254	AF239S	3
A068-112	56	A427	720	A2462	R0053	AC107	3	ACY44	254	AF240	3
A068-113	50	A430	709	A2464	709	AC108	254	AD100	R0052	AF251	2
A068-114	241	A451	709	A2465	709	AC109	254	AD103	232	AF252	2
A069-101	50	A454	709	A2466	713	AC110	254	AD104	232	AF253	3
A069-102/103	50	A455	709	A2468	54	AC116	254	AD105	232	AF256	2
A069-104/106	50	A466	734	A2469	56	AC117	254	AD130	230	AF267	2
A069-105	638	A467	56	A2470	56	AC120	254	AD131	232	AF279	3
A069-107	254	A472	728	A2471	713	AC121	254	AD132	232	AF280	3
A069-109	135	A473	56	A2473	135	AC122	254	AD133	232	AFY10	2
A069-111	135	A480	709	A2474	Z0415	AC123	254	AD138	230/232	AFY11	2
A069-112	R0050	A481	709	A2475	R9001	AC124	50	AD138/50	232	AFY12	3
A069-114	56	A482	709	A2476	134	AC125	254	AD139	642	AFY14	636
A069-115	135	A483	709	A2479	50	AC126	253	AD140	232	AFY15	636
A069-116	50	A484	709	A2480	55	AC127	641	AD142	627	AFY16	3
A069-118	134	A485	709	A2481	R0052	AC127-01	641	AD143	232	AFY18	2
A069-119	55	A486	709	A2485	R0054	AC128	254	AD143R	232	AFY34	3
A069-120	55	A489	709	A2488	56	AC128/01	254	AD145	230	AFY37	3
A069-121	638	A490	709	A2499	729	AC128K	238	AD148	230	AFY39	3
A069-122	56	A492	709	A2746	709	AC129	3	AD149	230	AFY40	3
A100	R0052	A494	56	A03004	R1725	AC130	641	AD150	230	AFY40K	3
A104	724	A495	56	A04093-A	R0054	AC131	254	AD152	642	AFY40R	3
A106	731	A496	734	A04093-X	R0054	AC132	254	AD153	232	AFY41	3
A108	724	A497	56	A04166-2	Z0417	AC132-01	632	AD155	642	AFY42	636
A110	730	A498	F2004	A04201	R9001	AC134	254	AD162	643	AFZ11	3
A111	726	A500	R0054	A04212-A	R0054	AC135	254	AD163	234	AFZ12	3
A114C	R0053	A515	706	A04212-8	R0056	AC136	254	AD164	643	AG100D	R0052
A115	722	A522	247	A04230-A	R0054	AC137	254	AD262	642	AG100G	R0053
A116	724	A523	247	A04231-A	R0054	AC138	254	AD263	642	AG100J	R0054
A130	713	A567	54	A04294	R0054	AC139	253	AD4001	R0050	AH805	R0055
A132	713	A572	247	A04331-021	R0052	AC141	641	ADY22	230	AH810	R0055
A132-1	R0052	A593	728	A04332-007	Z0411	AC1418	641	ADY23	232	AH815	R0055
A133	S0001	A595	254	A10164	R0054	AC141K	641	ADY24	232	AH1005	R0056
A137	728	A600 (rectifier)	R0054	A10165	R0050	AC142	238	ADY26	237	AH1010	R0056
A138	730	A640	723	A11744	802	AC142K	238	ADY27	230	AH1015	R0056
A139	737	A640L	723	A11745	802	AC150	254	ADZ11	231/233	AJ5	R0050
A141	724	A641	724	A24100	54	AC151	254	ADZ12	233	AJ10	R0052
A142	725	A641L	724	A36508	135	AC151R	254	AEX-78881	R0220	AJ15	R0052
A143	726	A642	726	A42946	R9001	AC152	254	AEX-78882	R0220R	AJ20	R0052
A151	724	A642L	726	A42946-8	R9001	AC153	238	AEX79846	247	AJ25	R0053
A152	725	A649L	724	A072133-001	C6015	AC153K	238	AF101	253	AJ30	R0053
A153	726	A649S	724	A-113110	52	AC157	641	AF102	3	AJ35	R0053
A157	728	A702	244	A-113335	R0161	AC160	3	AF105	637	AJ40	R0053
A157A	728	A705	740	A-113367	R0050	AC160A	3	AF106	3	AJ50	R0054
A1578	728	A725EH2A81	R0056	A-118038	R0054	AC161	254	AF107	2	AJ60	R0054
A157C	728	A747	728	A-120018	736	AC162	254	AF108	2	AL100	234
A158	726	A747A	728	A-120077	Z0222	AC163	254	AF109	3	AL101	232
A1588	55	A7478	735	A-120125	R0052	AC168	641	AF109R	3	AL102	234
A158C	737	A748	726	A-120278	735	AC170	254	AF114	637	AL103	234
A159	737	A7488	55	A-120304	703	AC171	254	AF114N	636	AL112	644
A1598	55	A748C	737	A-120327	704	AC172	641	AF115	637	AL113	627
A159C	737	A749	737	A-120407	Z3514	AC173	632	AF115N	636	AL210	636
A160	52	A7498	55	A-120417	57	AC176K	238	AF116	637	AM1	R0160
A161	52	A749C	737	A-120420	Z0206	AC179	641	AF116N	636	AM3	R0050
A162	57	A757	736	A-125278	Z0214	AC180	254	AF117	637	AM4	R0160
A168	54	A758A	715	A-125332	728	AC180K	238	AF117N	636	AM-6-5	R0054
A170	715	A7588	717	A-132591	R0092	AC182	253	AF118	637	AM11	R0131
A171	52	A759A	715	A-134166-2	Z0415	AC183	641	AF120	636	AM12	R0162
A177	715	A7598	717	AA1	253	AC184	253	AF121	3	AM13	R0052
A177(A)	717	A777	713	AA2	641	AC185	641	AF121S	638	AM21	R0132
A178A	52	A778	712	AA3	3	AC186	641	AF124	636	AM23	R0052
A1788	717	A800	R0055	AA4	230/232	AC187/01	641	AF125	636	AM24	R0132
A179A	52	A909-1008	637	AA5	Z31/233	AC188	238	AF126	636	AM31	R0134
A1798	717	A909-1009	640	AA10	Z0426	AC188/01	254	AF127	636	AM33	R0053
A194	801	A909-1010	638	AA10-1	Z0426	AC188K	238	AF128	253	AM34	R0134
A195	801	A909-1011	254	AA50	R0050	AC191	632	AF129	636	AM41	R0134
A196	801	A909-1012	254	AA100	R0052	AC192	632	AF130	636	AM43	R0053
A200	S3001	A909-1013	254	AA111	135	AC193	238	AF131	636	AM44	R0134
A201	S3020	A909-1015	135	AA112	135	AC193K	238	AF132	636	AM51	R0136
A202	S3006	A909-1016	135	AA113	134	AC200	R0092	AF133	636	AM53	R0054
A203	S3001	A909-1017	135	AA116	135	AC300	R0094	AF134	636	AM54	R0136
A210	S3008	A909-1018	R0050	AA119	134	AC400	R0094	AF135	636	AM63	R0054
A211	S3008	A909-1019	R0054	AA120	135	AC500	R0096	AF136	636	AM64	R0136

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DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
AM005	R0050	ASY14-3	253	AVB022	Z3520	B3D5	R0053	B7H9	R0097	BAV219	R0137
AM010	R0052	ASY24	636	AVB027	Z3522	B3D9	R0053	B7K1	R0097	BAV225	R0134
AM015	R0052	ASY26	253	AVB056	Z3530	B3E1	R0053	B7K5	R0097	BAV226	R0136
AM020	R0052	ASY27	253	AV80B2	Z3534	B3E5	R0053	B7K9	R0097	BAV227	R0136
AM025	R0053	ASY28	641	AW01-9	Z0412	B3E9	R0053	B7M1	R0098	BAV228	R0137
AM030	R0053	ASY29	641	AW01-07	Z0410	B3F1	R0054	B7M5	R0098	BAV229	R0137
AM035	R0053	ASY31	253	AW 01-07	Z0412	B3F5	R0054	B7M9	R0098	BAV305	R0134
AM040	R0053	ASY32	253	AW01-08J	Z0411	B3F9	R0054	B-22-4	250	BAV306	R0136
AM050	R0054	ASY48	253	AW01-09	Z0412	B3G1	R0054	B-23-1	633	BAV307	R0136
AM060	R0054	ASY50	253	AW01-12	Z0415	B3G5	R0054	B-24-1	629	BAV308	R0137
AM300A	R0052	ASY51	253	AW01-12C	Z0415	B3G9	R0054	B-26-1	632	BAV309	R0137
AM301A	R0052	ASY52	253	AW01-13	Z0416	B3H1	R0055	B-30	135	BAV315	R0134
AM302A	R0050	ASY53	641	AYY10-120	R0131	B3H5	R0055	B-31	R0053	BAV316	R0136
AM303A	R0052	ASY54	253	AZ3.3	Z0206	B3H9	R0055	B46-110	R9001	BAV317	R0136
AM304A	R0052	ASY55	254	AZ3.6	Z0402	B3K5	R0055	B-46-110	R9001	BAV318	R0137
AM305A	R0050	ASY56	253	AZ3.9	Z0208	B3K9	R0055	B51	2	BAV319	R0137
AM306A	R0052	ASY57	253	AZ4.7	Z0210	B3M1	R0056	B131	245	BAV325	R0134
AM307A	R0052	ASY58	253	AZ5.1	Z0211	B3M5	R0056	B132	246	BAV326	R0136
AM308A	R0050	ASY59	636	AZ5.6	Z0212	B3M9	R0056	B134	230/232	BAV327	R0136
AM405	R0050	ASY61	641	AZ6.2	Z0214	B4A1	R0050	B134A	230/232	BAV328	R0137
AM410	R0052	ASY62	641	AZ6.B	Z0215	B4A5	R0050	B134C	232	BAV329	R0137
AM415	R0052	ASY63	636	AZ7	Z0417	B4A9	R0050	B169	801	BAV405	R0134
AM420	R0052	ASY67	635	AZB.2	Z0217	B4B1	R0052	B172-5	R0090	BAV406	R0136
AM425	R0053	ASY70	254	AZ9.1	Z0219	B4B5	R0052	B172-10	R0092	BAV407	R0136
AM430	R0053	ASY72	641	AZ10	Z0220	B4B9	R0052	B172-20	R0092	BAV408	R0137
AM435	R0053	ASY73	641	AZ15	Z0225	B4C1	R0052	B177	232	BAV409	R0137
AM440	R0053	ASY74	641	AZ18	Z0228	B4C5	R0052	B178	232	BAV415	R0134
AM450	R0054	ASY75	641	AZ22	Z0231	B4C9	R0052	B179	232	BAV416	R0136
AM460	R0054	ASY76	253	AZ27	Z0234	B4D1	R0053	B191-5	R0160	BAV417	R0136
AM3235	247	ASY77	253	B1A	S5004	B4D5	R0053	B224	232	BAV418	R0137
AM-G22	R0054	ASY80	253	B1A1	R0050	B4D9	R0053	B274	243	BAV419	R0137
AN155	609	ASY81	629	B1A5	R0050	B4E1	R0053	B-315-1	254	BAV425	R0134
AN-206	C6060P	ASY90	629	B1A9	R0050	B4E5	R0053	B324	254	BAV426	R0136
AN240	C6063P	ASY91	632	B1B	736	B4E9	R0053	B-324	254	BAV427	R0136
AN241	C6063P	ASZ15	232	B1B1	R0052	B4F1	R0054	B601-1006	3	BAV428	R0137
APB-11H-1001	3	ASZ16	232	B1B5	R0052	B4F5	R0054	B601-1007	3	BAV429	R0137
APB-11H-1004	637	ASZ17	232	B1B9	R0052	B4F9	R0054	B601-1008	3	BAV505	R0134
APB-11H-1007	640	ASZ18	232	B1C	701	B4G1	R0054	B601-1009	250	BAV506	R0136
APB-11H-1008	250	ASZ20	3	B1C1	R0052	B4G5	R0054	B601-1010	254	BAV507	R0136
APB-11H-1010	250	ASZ21	3	B1C-1	701	B4G9	R0054	B1017	232	BAV508	R0137
AR4	230/232	AT 4	3	B1C-2	701	B4H1	R0055	B1022	254	BAV509	R0137
AR5	230/232	AT 5	3	B1C5	R0052	B4H5	R0055	B1085	232	BAV515	R0134
AR6	230/232	AT6	254	B1C9	R0052	B4H9	R0055	B1151	232	BAV516	R0136
AR7	230/232	AT-6	3	B1D	701	B4K5	R0055	B1151A	232	BAV517	R0136
ARB	230/232	AT6A	254	B1D1	R0053	B4K9	R0055	B1151B	232	BAV518	R0137
AR9	232	AT-7	243	B1D-1	701	B4M1	R0056	B1152	232	BAV519	R0137
AR10	232	AT10H	251	B1D-2	701	B4M5	R0056	B1152A	232	BAV525	R0134
AR11	232	AT10M	250	B1D5	R0053	B4M9	R0056	B1152B	232	BAV526	R0136
AR12	232	AT10N	250	B1D9	R0053	B5	R0056	B1154	232	BAV527	R0136
AR13	232	AT11	3	B1E	S3021	B5A	R0056	B1274	232	BAV528	R0137
AR14	232	AT-11	3	B1E1	R0053	B5A1	R0050	B1274A	232	BAV529	R0137
AR16	R0050	AT12	3	B1E-1	S3022	B5A5	R0050	B1274B	232	BAV705	R0134
AR17	R0052	AT-12	243	B1E5	R0053	B5A9	R0050	B1368	232	BAV706	R0136
AR-17	245	AT13	3	B1E9	R0053	B5B1	R0052	B1368A	232	BAV707	R0136
AR18	241	AT14	3	B1F	S5000	B5B5	R0052	B1368B	232	BAV708	R0137
AR19	R0053	AT-14	3	B1F1	R0054	B5B9	R0052	B1368C	232	BAV709	R0137
AR20	R0053	AT15	3	B1F5	R0054	B5C1	R0052	B1368D	232	BAV715	R0134
AR21	R0054	AT16	3	B1F9	R0054	B5C5	R0052	B1368E	232	BAV716	R0136
AR22 (rectifier)	R0054	AT17	3	B1G	S3021	B5C9	R0052	B1368F	232	BAV717	R0136
AR22 (transistor)	245	AT20H	633	B1G1	R0054	B5D1	R0053	B-1511	232	BAV718	R0137
AR23 (rectifier)	R0055	AT20M	632	B1G5	R0054	B5D5	R0053	B2090	Z0413	BAV719	R0137
AR23 (transistor)	246	AT20N	631	B1G9	R0054	B5D9	R0053	B5000	245	BAV725	R0134
AR24 (rectifier)	R0056	AT30H	630	B1H1	R0055	B5E1	R0053	B10064	230	BAV726	R0136
AR24 (transistor)	245	AT30M	629	B1H5	R0055	B5E5	R0053	B10069	230	BAV727	R0136
AR25	246	AT30N	629	B1H9	R0055	B5E9	R0053	B10142	235	BAV728	R0137
AR26	S3027	AT100H	238	B1K1	R0055	B5F1	R0054	B10142A	235	BAV729	R0137
AR27	246	AT100M	238	B1K5	R0055	B5F5	R0054	B10142B	235	BAV805	R0134
AR28	245	AT100N	238	B1K9	R0055	B5F9	R0054	B10143	235	BAV806	R0136
AR29	S3027	AT342	709	B1M1	R0056	B5G1	R0054	B10143A	235	BAV807	R0136
AR102	254	AT343	709	B1M5	R0056	B5G5	R0054	B10143B	235	BAV808	R0137
AR103	2	AU100N	254	B1M9	R0056	B5G9	R0054	B10162	232	BAV809	R0137
AR104	2	AU101	232	B2A1	R0050	B5H1	R0055	B10163	232	BAV815	R0134
AR105	2	AU102	232	B2A5	R0050	B5H5	R0055	B10474	232	BAV816	R0136
AR107	54	AU103	235	B2A9	R0050	B5H9	R0055	B10475	232	BAV817	R0136
AR108	54	AU104	235	B2B1	R0052	B5K5	R0055	B17307	247	BAV818	R0137
AR200	53	AU106	235	B2B5	R0052	B5K9	R0055	B36564	R0054	BAV819	R0137
AR-200	54	AU107	235	B2B9	R0052	B5M1	R0056	B170000	247	BAV825	R0134
AR201	53	AU108	644	B2C1	R0052	B5M5	R0056	B170001	247	BAV826	R0136
AR-201	54	AU110	644	B2C5	R0052	B5M9	R0056	B170002	247	BAV827	R0136
AR202	53	AU111	235	B2C9	R0052	B6A1	R0090	B170004	247	BAV828	R0137
AR-202	54	AU112	235	B2D1	R0053	B6A5	R0090	B170005	247	BAV829	R0137
AR203	243	AU113	235	B2D5	R0053	B6A9	R0090	B170009	247	BAX12	R0052
AR209	718	AUY10	232	B2D9	R0053	B6B1	R0092	B170010	247	BAX13	R0600
AR210	718	AUY19	232	B2E1	R0053	B6B5	R0092	B170011	247	BAX-13	R0054
AR211	718	AUY20	232	B2E5	R0053	B6B9	R0092	B170018	247	BAY20	R0052
AR212	718	AUY21	232	B2E9	R0053	B6C5	R0092	B170019	247	BAY36	R0050
AR213	718	AUY21A	232	B2F1	R0054	B6C9	R0092	B170020	247	BB-4	R0052
AR218	718	AUY22	232	B2F5	R0054	B7A1	R0090	BA6	253	BB-6	R0053
AR219	718	AUY22A	232	B2F9	R0054	B7A5	R0090	BA6A	253	BB10	R3012
AR220	718	AUY29	236	B2G1	R0054	B7A9	R0090	BA67	728	BB71	729
AR221	718	AUY34	625	B2G5	R0054	B7B1	R0091	BA71	729	BB109	R2500
AR222	718	AUY37	625	B2G9	R0054	B7B5	R0091	BA105	R0053	BC71	729
AR304	242	AUY38	235	B2H1	R0055	B7B9	R0091	BA108	R0050	BC107	55
AS2	R0052	AV5	Z0415	B2H5	R0055	B7C1	R0092	BA110	R2501	BC107A	55
AS3	R0052	AV10	Z0426	B2H9	R0055	B7C5	R0092	BA114	R0054	BC107A	55
AS4	R0053	AV104	Z3512	B2K5	R0055	B7C9	R0092	BA127	R0052	BC107B	55
AS5	R0053	AV105	Z3514	B2K9	R0055	B7D1	R0094	BA136	R0050	BC108	50
AS6	R0054	AV107	Z3518	B2M1	R0056	B7D5	R0094	BA-142-01	R0054	BC108A	55
AS11	R0050	AV110	Z3524	B2M5	R0056	B7D9	R0094	BA148	R0053	BC108B	55
AS477	629	AV116	Z3536	B2M9	R0056	B7E1	R0094	BA178	R0050	BC108C	55
AS33867	254	AV2012	Z0415	B3A1	R0050	B7E5	R0094	BA182	R0050	BC109	S0003
AS33868	254	AV2015	Z0418	B3A5	R0050	B7E9	R0094	BAV205	R0134	BC109B	55
AS342B0	636	AV2027	Z0424	B3A9	R0050	B7F1	R0096	BAV206	R0136	BC109C	55
ASY12-1	3	AV2033	Z0426	B3B1	R0052	B7F5	R0096	BAV207	R0136	BC110	S0007
ASY12-2	3	AV2055	Z0432	B3B5	R0052	B7F9	R0096	BAV208	R0137	BC112	722
ASY13-1	3	AV2062	Z0433	B3B9	R0052	B7G1	R0096	BAV209	R0137	BC113	54
ASY13-2	3	AV2082	Z0436	B3C1	R0052	B7G5	R0096	BAV215	R0134	BC114	54
ASY14	253	AV2110	Z0439	B3C5	R0052	B7G9	R0096	BAV216	R0136	BC115	54
ASY14-1	253	AVB015	Z3516	B3C9	R0052	B7H1	R0097	BAV217	R0136	BC116	52
ASY14-2	253	AVB018	Z3518	B3D1	R0053	B7H5	R0097	BAV218	R0137	BC116A	708

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DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
BC117	S0001	BC194	S0004	BCY1B	52	BDY53	704	BFXB5	714	BSY41	52
BC118	55	BC200	739	BCY19	52	BDY54	707	BFXB6	S3001	BSY58	53
BC119	50	BC205	52	BCY21	52	BDY60	247	BFXB7	708	BSY62	50
BC120	53	BC206	57	BCY22	52	BDY61	247	BFXB8	51	BSY63	50
BC121	727	BC222	S0004	BCY23	52	BDY62	247	BFY10	53	BSY70	56
BC122	733	BC237	729	BCY24	52	BDY65	714	BFY11	53	BSY72	50
BC123	734	BC237A	738	BCY25	52	BDY66	714	BFY12	53	BSY73	50
BC125	50	BC237B	738	BCY26	52	BDY71	703	BFY15	53	BSY74	50
BC125B	S0004	BC238	S0002	BCY27	52	BDY72	241	BFY17	53	BSY75	50
BC126	52	BC238A	725	BCY28	52	BDY78	703	BFY18	50	BSY76	50
BC129	50	BC238B	726	BCY29	710	BDY79	241	BFY19	50	BSY79	712
BC130	50	BC238C	737	BCY30	52	BE6	254	BFY25	53	BSY80	55
BC131	50	BC239	55	BCY31	52	BE6A	254	BFY26	50	BSY81	S3001
BC132	50	BC239B	726	BCY32	52	BE71	729	BFY28	50	BSY82	S3023
BC134	55	BC239C	737	BCY33	52	BF71	729	BFY29	54	BSY83	S3001
BC135	736	BC257	717	BCY34	52	BF108	714	BFY30	54	BSY84	S3020
BC137	716	BC258	S0006	BCY38	52	BF109	50	BFY33	53	BSY85	714
BC139	52	BC259	S0006	BCY39	52	BF115	50	BFY37	50	BSY86	714
BC140	S3002	BC260A	52	BCY40	52	BF152	56	BFY37i	50	BSY87	713
BC140-6	S3001	BC260B	52	BCY42	50	BF153	50	BFY39	50	BSY88	713
BC140-10	S3001	BC260C	57	BCY43	50	BF154	50	BFY39i	50	BSY91	75
BC140-16	S3001	BC261	715	BCY49	52	BF155	56	BFY44	S3002	BSY92	243
BC141	714	BC261A	715	BCY50	50	BF158	56	BFY47	55	BSY93	56
BC141-6	714	BC261B	715	BCY50i	50	BF159	56	BFY48	55	BSY95	50
BC141-10	714	BC261C	57	BCY51	50	BF160	56	BFY49	55	BSY95A	56
BC141-16	714	BC307	715	BCY51i	50	BF162	56	BFY50	714	BSY168	50
BC142	S3001	BC307A	715	BCY54	52	BF163	56	BFY51	S3001	BT67	728
BC143	51	BC307V1	715	BCY56	55	BF164	56	BFY52	S3001	BT71	729
BC144	S3001	BC308	52	BCY57	55	BF165	56	BFY53	S3001	BTM-50	RO050
BC145	S0001	BC308A	52	BCY58	50	BF166	56	BFY63	53	BTX06B	243
BC146	725	BC308B	715	BCY59	50	BF167	50	BFY64	51	BTX070	254
BC147	728	BC308V1	52	BCY69	55	BF168	56	BFY67	S3001	BTX071	641
BC147A	728	BC309	715	BCY70	52	BF169	50	BFY70	S3001	BTX-094	54
BC147B	728	BC309A	52	BCY71	70B	BF173	56	BFY74	56	BTX-095	730
BC148	55	BC309B	717	BCY71A	715	BF176	50	BFY76	54	BTX-096	53
BC148A	55	BC327	S3031	BCY72	52	BF177	713	BFY77	54	BTX-097	51
BC148B	55	BC328	S3027	BCY72V11	70B	BF178	712	BFY78	56	BU67	728
BC148C	737	BC337	S3020	BCY77V111	70B	BF179	712	BFY79	56	BU71	729
BC149	55	BC338	S3023	BCY78	52	BF179A	712	BFY90	709	BU110	707
BC149B	55	BC394	S0005	BCY79	70B	BF179B	706	BG71	729	BU111	740
BC149C	737	BC395	S3002	BCY85	S0005	BF179C	706	BH71	729	BUY20	707
BC153	50	BC396	710	BCY86	S0001	BF180	709	BI71	729	BUY21	707
BC154	57	BC400	710	BCY90	52	BF181	709	BLY15A	241	BUY21A	707
BC155A	723	BC404A	710	BCY90B	52	BF182	709	BLY33A	S300B	BUY22	707
BC155B	725	BC404V1	710	BCY91	52	BF183	709	BLY34	75	BUY35	707
BC155C	730	BC405A	70B	BCY91B	52	BF184	709	BLY47	247	BUY38	703
BC156A	723	BC405B	715	BCY92	52	BF185	709	BLY47A	241	BUY41	S3002
BC156B	725	BC406B	715	BCY92B	715	BF186	S0005	BLY48	247	BUY43	247
BC156C	730	BC411	S3002	BCY93	70B	BF187	56	BLY48A	241	BUY44	707
BC157	715	BC412	S3001	BCY93B	710	BF188	56	BLY61	243	BUY46	247
BC158	52	BC413B	735	BCY94	70B	BF189	56	BLY79	S3006	BV67	728
BC158A	52	BC413C	737	BCY94B	710	BF194	734	BLY92	S3007	BV71	729
BC158B	717	BC414B	735	BCY95	70B	BF194B	734	BP67	730	BW67	728
BC159	717	BC414C	735	BCY95B	710	BF195	710	BF195	3	BW71	729
BC159A	52	BC415A	715	BCY96	710	BF195C	734	BP5263	3	BW71	729
BC159B	717	BC415B	57	BCY96B	710	BF195D	710	BPX25	P0001	BX67	728
BC160	S3027	BC416A	715	BCY97	710	BF196	734	BPX43	P0001	BX71	729
BC160-6	S3012	BC416B	57	BCY97B	710	BF197	734	BPX61(III)	P0001	BX090	Z0412
BC160-10	S3012	BC429	S3020	BCY98B	739	BF200	709	BPX62(III)	P0001	BX-495	two 238
BC160-16	S3012	BC430	S3020	BCY771X	70B	BF245	802	BQ67	728	BY67	728
BC161	S3012	BC440	S3010	BCZ10	52	BF254	56	BR67	728	BY71	729
BC161-6	S3012	BC441	S3010	BCZ11	739	BF255	56	BS67	720	BY100	RO055
BC161-10	S3012	BC460	S3031	BCZ12	52	BF262	56	BSV52R	718	BY105S	RO055
BC161-16	S3012	BC461	S3031	BCZ13	52	BF263	718	BSW32	718	BY101	RO136
BC167	729	BC477	710	BCZ14	52	BF264	718	BSW41	712	BY102	RO052
BC168	S0002	BC477A	710	BD2B	311	BFRR22	714	BSW65	S0004	BY103	RO055
BC169	55	BC477V1	710	BD71	729	BFS17	720	BSW66	S3031	BY104	RO055
BC170A	727	BC478	716	BD106	241	BFS17R	56	BSW67	714	BY105	RO055
BC170B	723	BC478A	716	BD106A	S5003	BFS18	720	BSW68	714	BY106	RO054
BC170C	725	BC478B	716	BD107	241	BFS18R	56	BSW69	712	BY107	RO054
BC171	728	BC479	739	BD107A	S5003	BFS19	718	BSW70	712	BY108	RO055
BC171A	728	BC479B	739	BD109	S5003	BFS19R	56	BSX19	712	BY109	RO055
BC171B	738	BC507A	736	BD111	247	BFS20	718	BSX20	S0004	BY111	RO050
BC172	726	BC507B	736	BD111A	247	BFS20R	56	BSX21	S0004	BY112	RO053
BC172A	724	BC508A	53	BD113	247	BFS22	56	BSX24	712	BY113	RO052
BC172B	725	BC508B	736	BD115	706	BFS23	S3001	BSX24	50	BY114	RO054
BC172C	726	BC508C	S0003	BD117	S5004	BFS2B	S3001	BSX25	56	BY115	RO053
BC173	730	BC509B	S0002	BD119	240	BFS2BR	F2004	BSX26	56	BY116	RO054
BC173B	725	BC509C	S0004	BD120	240	BFW16	F2004	BSX27	56	BY117	RO054
BC173C	730	BC510B	S0002	BD121	55001	BFW16A	75	BSX28	56	BY118	RO055
BC174A	729	BC510C	721	BD123	S5004	BFW17	75	BSX29	56	BY119	RO055
BC174B	728	BC1073	230/232	BD124	S5000	BFW17A	75	BSX32	S3001	BY121	RO050
BC177	715	BC1073A	230/232	BD127	240	BFW30	709	BSX38	56	BY122	RO052
BC177A	715	BC1274	230/232	BD128	240	BFW45	S0005	BSX44	50	BY123	RO052
BC177B	739	BC1274A	230/232	BD129	240	BFW57	S3010	BSX59	50	BY124	RO053
BC177V	716	BC1274B	230/232	BD130	704	BFW58	S3010	BSX60	S3001	BY125	RO053
BC177V1	716	BC6500	719	BD131	S5000	BFW59	53	BSX61	S3001	BY126	RO054
BC178	717	BCW79-10	70B	BD132	S5007	BFW60	53	BSX69	S3001	BY127	RO054
BC178A	52	BCW79-16	70B	BD135	S3023	BFW67	S3031	BSX76	723	BY128	RO056
BC178B	57	BCW79-25	S3028	BD136	S3027	BFW88	S3031	BSX77	729	BY129	RO055
BC178V	52	BCW80-10	70B	BD137	S5003	BFW89	716	BSX78	729	BY130	RO054
BC178V1	52	BCW80-16	70B	BD138	S5007	BFW90	716	BSX79	729	BY141	RO050
BC179	57	BCW80-25	S3028	BD139	S5000	BFW91	51	BSY11	53	BY201	RO130
BC179A	52	BCW94	S3010	BD140	S5006	BFX12	52	BSY17	50	BY202	RO131
BC179B	717	BCW94K	S3010	BD141	707	BFX13	52	BSY18	50	BY203	RO132
BC180	55	BCW95	S3010	BD142	704	BFX17	S3001	BSY19	50	BY204	RO134
BC180b	55	BCW95K	S3010	BD144	707	BFX18	56	BSY20	50	BY205	RO136
BC181	715	BCW96	70B	BD145	247	BFX19	56	BSY21	50	BY206	RO136
BC182A	735	BCW96K	70B	BD148	S5003	BFX20	56	BSY22	50	BY207	RO136
BC182L	736	BCW97	70B	BD149	S5000	BFX21	56	BSY23	50	BY208	RO137
BC183A	735	BCW97K	70B	BD155	245	BFX29	70B	BSY24	50	BY209	RO137
BC183B	735	BCX10	S3027	BD162	701	BFX30	70B	BSY25	53	BY211	RO130
BC183L	736	BCX40	S3002	BD163	245	BFX31	56	BSY26	50	BY212	RO131
BC184	735	BCX60	S3003	BD183	704	BFX33	S300B	BSY27	50	BY213	RO134
BC184L	735	BCY10	51	BD215	244	BFX37	52	BSY28	50	BY214	RO134
BC185	53	BCY11	51	BD216	244	BFX43	50	BSY29	50	BY215	RO136
BC186	52	BCY12	52	BDX12	707	BFX44	56	BSY34	53	BY216	RO136
BC187	52	BCY13	55	BDY15	241	BFX48	52	BSY38	50	BY217	RO137
BC190A	S0007	BCY15	55	BDY16	241	BFX55	S300B	BSY39	50	BY218	RO137
BC192	716	BCY17	52	BDY38	247	BFX84	714	BSY40	52	BY219	RO130

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DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
BY222	R0131	BY724	R0134	BY20/200	R0222R	BZY83C15	Z0225	C12A	R1242	C106Q4	R1220
BY223	R0132	BY725	R0134	BY21/200	R0222R	BZY83C20	Z0230	C12B	R1243	C106Y	R1220
BY224	R0134	BY726	R0136	BY31	R0052	BZY83C22	Z0231	C12C	R1244	C106Y3	R1220
BY225	R0134	BY727	R0136	BY32	R0052	BZY83D4V7	Z0210	C12D	R1245	C106Y3	R1220
BY226	R0136	BY728	R0137	BY33	R0053	BZY83D5V6	Z0407	C12F	R1241	C106Y4	R1220
BY227	R0136	BY729	R0137	BY34	R0053	BZY83D6V8	Z0215	C12G	R1243	C107A1	R1003
BY228	R0137	BY801	R0130	BY35	R0055	BZY83D8V2	Z0217	C12H	R1244	C107A2	R1003
BY229	R0137	BY802	R0131	BY36	R0054	BZY83D10	Z0220	C12U	R1241	C107A3	R1003
BY301	R0130	BY803	R0132	BY37	R0055	BZY83D12	Z0222	C15A	R1242	C107A4	R1003
BY302	R0131	BY804	R0134	BY88	R0132	BZY83D15	Z0225	C15A-U	R1243	C107B1	R1005
BY303	R0132	BY805	R0134	BYZ13	R0162	BZY83D18	Z0228	C15B	R1243	C107B2	R1005
BY304	R0134	BY806	R0136	BZ3.6	Z0402	BZY83D22	Z0231	C15C	R1244	C107B3	R1005
BY305	R0134	BY807	R0136	BZ3.9	Z0208	BZY85C3V3	Z0206	C15D	R1245	C107B4	R1005
BY306	R0136	BY808	R0137	BZ4.7	Z0210	BZY85C3V6	Z0402	C15E	R1246	C107F1	R1220
BY307	R0136	BY809	R0137	BZ5.1	Z0211	BZY85C3V9	Z0208	C15F	R1241	C107F3	R1220
BY308	R0137	BY811	R0130	BZ5.6	Z0212	BZY85C4V7	Z0210	C15G	R1243	C107F4	R1220
BY309	R0137	BY812	R0131	BZ6.2	Z0214	BZY85C5V1	Z0211	C15H	R1244	C107Q1	R1001
BY311	R0130	BY813	R0132	BZ6.8	Z0215	BZY85C5V6	Z0212	C15M	R1247	C107Q2	R1001
BY312	R0131	BY814	R0134	BZ8.2	Z0217	BZY85C6V2	Z0214	C15U	R1241	C107Q3	R1001
BY313	R0132	BY815	R0134	BZ9.1	Z0219	BZY85C6V8	Z0215	C20A	R1242	C107Q4	R1001
BY314	R0134	BY816	R0136	BZ9.7	Z0219	BZY85C6V8	Z0215	C20A	R1242	C107Q4	R1001
BY315	R0134	BY817	R0136	BZ71	Z0219	BZY85C9V1	Z0217	C20A-U	R1243	C107Y1	R1001
BY316	R0136	BY818	R0137	BZ100	Z0211	BZY85C10	Z0220	C20B	R1243	C107Y2	R1001
BY317	R0136	BY819	R0137	BZX10	Z0408	BZY85C12	Z0222	C20C	R1244	C107Y3	R1001
BY318	R0137	BY821	R0130	BZX14	Z0412	BZY85C15	Z0225	C20D	R1245	C107Y4	R1001
BY319	R0137	BY822	R0130	BZX17	Z0415	BZY85C18	Z0228	C20F	R1241	C111E	50
BY321	R0130	BY823	R0132	BZX19	Z0418	BZY85C18	Z0228	C22D	R1245	C122B	R1221
BY322	R0131	BY824	R0134	BZX25	Z0424	BZY85C20	Z0230	C30A	R1472	C122D	R1222
BY323	R0132	BY825	R0134	BZX27	Z0426	BZY85C22	Z0231	C30B	R1473	C122F	R1220
BY324	R0134	BY826	R0136	BZX29C5V1	Z0405	BZY85C27	Z0234	C30C	R1475	C444	50
BY325	R0134	BY827	R0136	BZX29C5V6	Z0407	BZY85C33	Z0426	C30D	R1475	C458	736
BY326	R0136	BY828	R0137	BZX29C27	Z0424	BZY85D4V7	Z0210	C30F	R1471	C644	55
BY327	R0136	BY829	R0137	BZX29C62	Z0433	BZY85D5V6	Z0212	C30U	R1471	C-644	55
BY328	R0137	BY1001	R0056	BZX29C82	Z0436	BZY85D6V8	Z0215	C31A	R1472	C673	801
BY329	R0137	BY1002	R0056	BZX46C5V6	Z0212	BZY85D8V2	Z0217	C31B	R1473	C674	801
BY401	R0130	BY1101	R0056	BZX46C6V2	Z0214	BZY85D10	Z0220	C31C	R1475	C684	801
BY402	R0131	BY1102	R0056	BZX46C6V8	Z0215	BZY85D12	Z0222	C31D	R1475	C684A	801
BY403	R0132	BY1201	R0056	BZX46C8V2	Z0215	BZY85D15	Z0225	C31F	R1471	C685	801
BY404	R0134	BY1202	R0056	BZX46C9V1	Z0219	BZY85D18	Z0228	C31U	R1471	C764	801
BY405	R0134	BY2001	R0138	BZX46C10	Z0220	BZY85D22	Z0231	C32A-U	R1304	C828	55
BY406	R0136	BY2002	R0138	BZX46C12	Z0222	BZY88C3V9	Z0208	C33A-U	R1304	C-828	55
BY407	R0136	BY2101	R0138	BZX46C15	Z0225	BZY88C3V3	Z0206	C33A-U	R1304	C-828	55
BY408	R0137	BY2102	R0138	BZX46C18	Z0228	BZY88C4V7	Z0210	C34A2	R1472	C829	50
BY409	R0137	BY2201	R0138	BZY46C20	Z0230	BZY88C4V7	Z0210	C34B2	R1473	C-829	50
BY411	R0130	BY2202	R0138	BZX46C22	Z0231	BZY88C5V6	Z0212	C34C2	R1475	C1437	253
BY412	R0131	BY3001	R0138	BZX55C6V2	Z0214	BZY88C5V6	Z0212	C34D2	R1475	C1438	253
BY413	R0132	BY3002	R0138	BZX55C6V8	Z0215	BZY88C6V2	Z0214	C34F2	R1471	C-2053	624
BY414	R0134	BY3101	R0138	BZX55C8V2	Z0217	BZY88C6V8	Z0215	C35A	R1304	C3071	C6071P
BY415	R0134	BY3102	R0138	BZX55C8V2	Z0217	BZY88C6V8	Z0215	C35B	R1304	C4011	Z0214
BY416	R0136	BY3201	R0138	BZX55C9V1	Z0219	BZY88C8V2	Z0217	C35F	R1301	C4012	Z0215
BY417	R0136	BY3202	R0138	BZX55D6V8	Z0215	BZY88C9V1	Z0219	C36A	R1302	C4014	Z0217
BY418	R0137	BY4001	R0138	BZX55D8V2	Z0217	BZY88C10	Z0220	C36B	R1304	C4015	Z0219
BY419	R0137	BY4002	R0138	BZX55D10	Z0220	BZY88C12	Z0222	C36C	R1306	C4016	Z0220
BY421	R0130	BY4101	R0138	BZX70C7V5	Z2510	BZY88C13	Z0416	C36D	R1307	C4018	Z0222
BY422	R0131	BY4102	R0138	BZX70C9V1	Z2513	BZY88C15	Z0225	C36F	R1301	C4020	Z0225
BY423	R0132	BY4201	R0138	BZX70C10	Z2514	BZY88C18	Z0228	C36G	R1304	C4022	Z0228
BY424	R0134	BY4202	R0138	BZX70C12	Z2516	BZY88C20	Z0230	C36H	R1306	C4023	Z0230
BY425	R0134	BY5001	R0138	BZX70C18	Z2522	BZY88C22	Z0231	C36U	R1300	C4024	Z0231
BY426	R0136	BY5002	R0138	BZX70C22	Z2525	BZY88C27	Z0234	C37A	R1472	C4026	Z0234
BY427	R0136	BY5101	R0138	BZX70C27	Z2528	BZY92C5V1	Z0405	C37B	R1473	C5005	Z0211
BY428	R0137	BY5102	R0138	BZX70C33	Z2531	BZY92C5V6	Z0407	C37C	R1475	C5002	51
BY429	R0137	BY5201	R0138	BZX71C5V1	Z0211	BZY92C15	Z0418	C37D	R1475	C9081	51
BY430	R0130	BY5202	R0138	BZX71C5V6	Z0212	BZY92C27	Z0424	C37F	R1471	C9082	52
BY502	R0131	BY7001	R0138	BZX71C6V2	Z0214	BZY92C33	Z0426	C37U	R1471	C9083	52
BY503	R0132	BY7002	R0138	BZX71C6V8	Z0215	BZY94C10	Z0220	C38A	R1472	C9084	52
BY504	R0134	BY7101	R0138	BZX71C8V2	Z0217	BZY94C12	Z0222	C38B	R1473	C9085	52
BY505	R0134	BY7102	R0138	BZX71C9V1	Z0219	BZY94C15	Z0225	C38C	R1475	C10176	R0054
BY506	R0136	BY7201	R0138	BZX71C10	Z0220	BZY94C18	Z0228	C38D	R1475	C21383	Z0412
BY507	R0136	BY7202	R0138	BZX71C12	Z0222	BZY94C20	Z0230	C38F	R1471	C21480	134
BY508	R0137	BY8001	R0138	BZX71C15	Z0225	BZY94C22	Z0231	C38G	R1473	C-36577	S0006
BY509	R0137	BY8002	R0138	BZX71C18	Z0228	BZY94C27	Z0234	C38H	R1475	C-36578	719
BY510	R0130	BY8101	R0138	BZX71C18	Z0230	BZY94C33	Z0426	C38U	R1471	C2485076-3	243
BY511	R0131	BY8102	R0138	BZX71C20	Z0230	BZY94C62	Z0433	C40A	R1472	C2485077-2	243
BY512	R0131	BY8103	R0138	BZX71C25	Z0231	BZY94C62	Z0433	C40B	R1473	C2485078-1	50
BY513	R0132	BY8201	R0138	BZX79C5V1	Z0211	BZY95C12	Z2516	C40C	R1475	C2485078-3	50
BY514	R0134	BY8202	R0138	BZX79C5V6	Z0212	BZY95C15	Z2519	C40D	R1475	C2485079-1	55
BY515	R0134	BY8203	R0138	BZX79C6V2	Z0214	BZY95C18	Z2522	C40F	R1471	CA 90	135
BY516	R0136	BYX21/100	R0055	BZX79C6V8	Z0215	BZY95C22	Z2525	C40G	R1473	CA102BA	R0052
BY517	R0136	BYX21/100R	R0222	BZX79C8V2	Z0217	BZY95C27	Z2528	C40H	R1475	CA102FA	R0052
BY518	R0137	BYX21/200	R0222R	BZX79C9V1	Z0219	BZY95C33	Z2531	C40U	R1471	CA102FA	R0053
BY519	R0137	BYX21/200R	R0222R	BZX79C10	Z0220	BZY95C36	Z2537	C63	50	CA102HA	R0053
BY521	R0130	BYX21L100	R0220	BZX79C12	Z0222	BZY96C6V2	Z2508	C64	50	CA102KA	R0054
BY522	R0131	BYX21L200	R0222	BZX79C15	Z0225	BZY96C7V5	Z2510	C73	254	CA102MA	R0054
BY523	R0132	BYX21L400	R0222	BZX79C18	Z0228	BZY96C9V1	Z2513	C75	254	CA102PA	R0055
BY524	R0134	BYX21L400R	R0222R	BZX79C22	Z0230	BZY96C10	Z2514	C76	254	CA102RA	R0055
BY525	R0134	BYX22/200	R0052	BZX79C27	Z0231	BZY8318	Z0228	C049	R0052	CA102VA	R0056
BY526	R0136	BYX22/400	R0053	BZY18	Z0234	BZZ15	Z3505	C103A	R1003	CA152VA	R0056
BY527	R0136	BYX22/600	R0054	BZY19	Z0415	BZZ17	Z2510	C103B	R1005	CA3002	590
BY528	R0137	BYX22/800	R0055	BZY29C33	Z0418	BZZ19	Z3511	C103Q	R1001	CA3003	590
BY529	R0137	BYX26-60	R0055	BZY29C33	Z0426	BZZ20	Z3512	C103Y	R1001	CA3004	590
BY701	R0130	BYX30-600	R0052	BZY56	Z0210	C1.0E2	R0056	C103YY	R1002	CA3013	591
BY702	R0131	BYX36/150	R0052	BZY57	Z0211	C6-15	716	C106A	R1221	CA3014	591
BY703	R0132	BYX36/300	R0052	BZY58	Z0212	C6FF-BBLK	601	C106A1	R1221	CA3044	C6089G
BY704	R0134	BYX36/600	R0052	BZY59	Z0214	C6FF-BRED	600	C106A3	R1221	CA3044V	C6089G
BY705	R0134	BYX38/300	R0053	BZY60	Z0215	C10-03C	R9001	C106A4	R1221	CA3044V1	C6089G
BY706	R0136	BYX38/600	R0132	BZY62	Z0217	C10	R9001	C106B	R1221	CA3053	C6001
BY707	R0136	BYX38/900	R0134	BZY63	Z0219	C10-02A	R9001	C106B1	R1221	CA3064	C6089G
BY708	R0137	BYX38/1200	R0136	BZY65	Z0211	C10-13B	R9001	C106B3	R1221	CA3064/5A	C6089G
BY709	R0137	BYX39/600	R0136	BZY66	Z0214	C10-15B	R9001	C106B4	R1221	CA3065	C6083P
BY711	R0130	BYX39/800	R0137	BZY68	Z0219	C10-15C	R9001	C106C1	R1222	CA3065/7F	C6083P
BY712	R0131	BYX39/1000	R0137	BZY69	Z0222	C10-16A	R9001	C106C3	R1222	CA3070	C6070P
BY713	R0132	BYX40-600	R0138	BZY74	Z3505	C10-18B	R9001	C106C4	R1222	CA3071	C6071P
BY714	R0134	BYX40-800	R0136	BZY75	Z3507	C11A	R1242	C106D1	R1222	CA3072	C6057P
BY715	R0134	BYX40-1000	R0137	BZY83C4V7	Z0210	C11A-U	R1243	C106D3	R1222	CA5053</	

HEP Semiconductor Replacement Cross-References

DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
CC102DA	R0052	CCD13000-1D	55	CG66H	134	COD1533	R0053	CS1354	715	CTP1133	232
CC102FA	R0053	CCD13500-1	243	CG74H	135	COD1534	R0053	CS1359	53	CTP1135	232
CC102HA	R0053	CGD22	R0602	CG86H	135	COD1535	R0054	CS1360	53	CTP1136	232
CC102KA	R0054	CDQ10001	53	CGD462	134	COD1536	R0054	CS1361E	54	CTP1137	232
CC102MA	R0054	CDQ10002	53	CGD591	135	COD1537	R0055	CS1361F	54	CTP1500	232
CC102PA	R0055	CDQ10003	53	CGD685	135	COD1538	R0055	CS1361G	53	CTP1503	232
CC102RA	R0055	CDQ10004	53	CGD1029	135	COD1551	R0052	CS1362	S0001	CTP1504	232
CC102VA	R0056	CDQ10005	53	CHA423.6	Z0402	COD1552	R0052	CS1363	729	CTP1508	232
CC152VA	R0056	CDQ10006	53	CHA425.1	Z0405	COD1553	R0053	CS1368D	54	CTP1509	231/233
CCS2001H	54	CDQ10008	53	CHA425.6	Z0407	COD1554	R0053	CS1370	53	CTP1511	232
CCS2006D	53	CDQ10009	53	CHAZ6.2	Z0408	COD1555	R0054	CS1371	56	CTP1512	231/233
CCS2008F015	53	CDQ10010	53	CHAZ6.2A	Z0408	COD1556	R0054	CS1372	56	CTP1513	232
CCS6168	721	CDQ10016	53	CHMZ3.6	Z0402	COD1611	R0052	CS1386H	53	CTP1514	232
CCS6168F	54	CDQ10017	53	CHMZ5.1	Z0405	COD1612	R0052	CS1453E	243	CTP1544	236
CCS6168G	721	CDQ10018	53	CHMZ5.6	Z0407	COD1613	R0053	CS1453G	243	CTP1545	236
CCS6225F	55	CDQ10019	53	CHZ10	Z0220	COD1614	R0053	CS1555	50	CTP1550	232
CCS6226G	54	CDQ10020	53	CHZ10A	Z0220	COD1615	R0054	CS1661	720	CTP1551	232
CCS6227F	54	CDQ10021	53	CI-1004	C6074P	COD1616	R0054	CS1664	243	CTP1552	236
CCS6227G	54	CDQ10022	53	CJ-5206	54	COD1617	R0055	CS1665	S0001	CTP1553	236
CCS9017	55	CDQ10023	53	CJ-5207	54	COD1618	R0055	CS2001H	54	CTP1728	232
CCS9017G925	50	CDQ10024	53	CJ-5208	53	COD11531	R0052	CS2008G	720	CTP1729	232
CCS9018H924	56	CDQ10026	53	CJ5209	52	CP1028A	R0052	CS2008H05A	55	CTP1730	232
CD-2	R9001	CDQ10027	53	CJ5209	52	CP102DA	R0052	CS2008H052	55	CTP1731	232
CD 4	two R0054	CDQ10032	53	CJ5210	713	CP102FA	R0053	CS3906	715	CTP1732	232
CD31-00002	Z0402	CDQ10035	53	CJ5211	53	CP102HA	R0053	CS6168F	243	CTP1733	232
CD31-00006	Z0405	CDQ10036	53	CJ5212	53	CP102KA	R0054	CS6168G	243	CTP1735	232
CD31-00007	Z0407	CDR-2	R0050	CK13	3	CP102MA	R0054	CS6225F	55	CTP1736	232
CD31-00008	Z0408	CDR 4	R0054	CK13A	254	CP102PA	R0055	CS6226F	50	CTP1739	232
CD31-00012	Z0412	CDT1309	230/232	CK14	254	CP102RA	R0055	CS6227E	50	CTP-2001-1001	254
CD31-00015	Z0415	CDT1310	230/232	CK14A	254	CP102VA	R0056	CS6227F	50	CTP-2001-1002	254
CD31-00017	Z0418	CDT1311	232	CK16	254	CP152VA	R0056	CS9011	54	CTP-2001-1003	254
CD31-00023	Z0424	CDT1319	230/232	CK16A	254	COT840A	232	CS9011E	54	CTP-2001-1004	254
CD31-00025	Z0426	CDT1320	232	CK17	254	COT840B	232	CS9011F	54	CTP-2001-1007	54
CD31-12019	Z0412	CDT1321	232	CK17A	254	COT8408A	232	CS9011G	54	CTP-2001-1008	54
CD31-12022	Z0415	CDT1322	625	CK22	253	COT1110	230	CS9011H	54	CTP-2001-1009	632
CD31-12024	Z0418	CDT1348	232	CK22A	254	COT1110A	230/232	CS9011I	54	CTP-2001-1010	134
CD31-12030	Z0424	CDT1348A	232	CK22B	253	COT1111	232	CS9012	242	CTP-2001-1011	R0050
CD31-12032	Z0426	CDT1355	232	CK22C	253	COT1111A	232	CS9012HF	52	CTP-2001-1012	R0050
CD-37A	R0602	CDT1350A	232	CK25	254	COT112	232	CS9012HH	242	CTP-2006-1001	632
CD0000	R0602	CE502	R0052	CK25A	254	CR5.051A	R0160	CS9013	54	CTP-2006-1002	633
CD0014 (diode)	135	CE504	R0053	CK26	254	CR1035	R0052	CS9013H	54	CTP-2006-1003	632
CD0014 (transistor)	53	CE506	R0054	CK26A	254	CRT1602	232	CS9013HE	54	CTP2010-1001	632
CD-0014N	R0600	CE508	R0055	CK27	254	CRT3602A	232	CS9013HF	54	CTP2010-1002	632
CD0014NA	135	CE510	R0056	CK27A	254	CS1014A	56	CS9013HG	243	CTP2010-1003	254
CD0021	53	CE0088	250	CK64	253	CS1014G	56	CS9013HH	243	CTP2010-1004	254
CD0033	Z0408	CE0089	254	CK64A	253	CS1014H	56	CS9014	54	CTP2010-1005	254
CD0041N	54	CER67	R0050	CK64B	253	CS1120C	54	CS9014A	738	CTP2010-1006	254
CD1117	R0050	CER67A	R0050	CK64C	253	CS1120D	54	CS9014B	243	CTP2010-1007	639
CD1121	R0050	CER67B	R0050	CK65	253	CS1120E	54	CS9014D	53	CTP2010-1008	639
CD1122	R0052	CER67C	R0050	CK65A	253	CS1120H	243	CS9014G	243	CTP2010-1009	639
CD1123	R0053	CER68	R0052	CK65B	253	CS1121G	242	CS9015	715	CTP3500	232
CD1124	R0052	CER68A	R0052	CK66	253	CS1166D	54	CS9015B	54	CTP3503	232
CD1125	R0052	CER68B	R0052	CK66A	253	CS1166H	641	CS9015C	715	CTP3504	232
CD1126	R0053	CER68C	R0052	CK66B	253	CS1168E	54	CS9015C2	715	CTP3508	232
CD1127	R0053	CER68	R0052	CK66C	253	CS1168F	54	CS9015D	715	CTP3544	236
CD2300E/830	C1030P	CER68A	R0052	CK67	253	CS1168G	54	CS9015E	54	CTP3545	236
CD2302E/846	C1046P	CER68B	R0052	CK67A	253	CS1168H	53	CS9016F	50	CTP3552	236
CD2304E/845	C1045P	CER68C	R0052	CK67B	253	CS1225E	50	CS9016G	728	CTP3553	236
CD2306E/832	C1032P	CER70	R0053	CK67C	253	CS1225F	50	CS9017F	728	CV425	134
CD2307E/844	C1044P	CER70A	R0053	CK261	641	CS1225H	243	CS9017G	50	CV442	135
CD2308E/862	C1062P	CER70B	R0053	CK262	641	CS1226	723	CS9017H	50	CX-0036	135
CD2310E/836	C1036P	CER70C	R0053	CK706A	134	CS1226H	53	CS9018	50	CX-0039	R0053
CD2314E/833	C1033P	CER71	R0054	CK721	253	CS1227D	50	CS9018D	55	CTP2010-1001	R0092
CD3122	Z0405	CER71A	R0054	CK722	253	CS1227E	54	CS9018E	55	CX-0041	135
CD3171	Z0433	CER71B	R0054	CK725	253	CS1227F	54	CS9018F	55	CX-0042	135
CD3174	Z0436	CER71C	R0054	CK727	253	CS1227G	54	CS9018G	50	CX-0045	135
CD4116	Z0222	CER72	R0055	CK751	253	CS1228E	51	CS9103C	243	CX-0047	R0050
CD4117	Z0222	CER72A	R0055	CK754	254	CS1228F	242	CS912481	56	CX-0048	R0052
CD4118	Z0222	CER72B	R0055	CK759	254	CS1229E	54	CS9125	738	CX-0049	R0052
CD4121	Z0222	CER72C	R0055	CK759A	253	CS1229F	54	CS9128	57	CX-0050	Z0405
CD4122	Z0415	CER72D	R0055	CK760	254	CS1229H-H	56	CS9128C1	715	CX-0052	Z0415
CD8000	54	CER73	R0056	CK760A	253	CS1235G	50	CS9129	716	CX-0054	R0050
CD8457	R0050	CER73A	R0056	CK761	254	CS1236H	53	CS9129B2	715	CX-0055	R0602
CD8467	R0051	CER73B	R0056	CK762	254	CS1238F	53	CS9600-4	641	CY40	R0053
CD860011	R0050	CER73C	R0056	CK766	254	CS1238G	50	CS9600-5	641	CY50	R0054
CD3112018	Z0411	CER73D	R0056	CK766A	254	CS1238H	54	CS96180D	50	CY100	R0056
CD3212055	Z0420	CER750	R0054	CK768	254	CS1238I	50	CT11739	230	CZ4097	Z2545
CD86X7-5	720	CER500A	R0054	CK776A	254	CS1238P	54	CST1740	230/232	CZ4097A	Z2545
CDC430	730	CER500B	R0054	CK790	254	CS1244J	53	CST1741	230/232	CZ4883	Z2516
CDC496	715	CER500C	R0054	CK791	254	CS1244X	53	CST1742	230/232	CZ4883A	Z2516
CDC587	55	CER670	R0050	CK793	254	CS1252B	50	CST1743	232	CZ5064	Z2510
CDC731	802	CER670A	R0050	CK870	254	CS1252C	50	CST1744	232	CZ5064A	Z2510
CDC744	714	CER670B	R0050	CK871	3	CS1255H	243	CST1745	232	CZ5066	Z2513
CDC745	718	CER670C	R0050	CK872	253	CS1255HF	243	CST1746	232	CZ5066A	Z2513
CDC746	51	CER680	R0052	CK875	253	CS1256HG	242	CT-1009	254	CZ5067	Z2514
CDC12018C	243	CER680A	R0052	CK878	253	CS1258	50	CT-1012	50	CZ5067A	Z2514
CDC12038	50	CER680B	R0052	CK879	253	CS1259	50	CT-1013	50	CZ5071	Z2519
CDC12308	55	CER680C	R0052	CK882	253	CS1248B	50	CT-1017	254	CZ5071A	Z2519
CDC4023A130	53	CER690	R0052	CK888	253	CS1284F	50	CT-1018	56	CZ5073	Z2522
CDC5000	55	CER690A	R0052	CK891	254	CS1294E	51	CT-1019	56	CZ5073A	Z2522
CDC5000-18	56	CER690B	R0052	CK892	254	CS1294F	51	CT-1020	56	CZ5074	Z2525
CDC5028A	56	CER690C	R0052	CL1	R0052	CS1294H	51	CT-1021	56	CZ5074A	Z252

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DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
CZD018	Z0228	D5G	R0053	D058	53	DD2066	R0053	DS16	254	DT1120	243
CZD018-5	Z0228	D5H	R0053	D069	53	DD2068	R0055	DS-16A (Sanyo)	R0055	DT1122	243
CZD020	Z0230	D5J	R1220	D073	637	DD2320	R0050	DS-16B	R0050	DT1311	243
CZD020-5	Z0230	D5L	R0106	D093	135	DD2321	R0052	DS-16B (Sanyo)	R0053	DT1321	243
CZD022	Z0231	D5R35	R0054	D100	R0052	DD4020	R0130	DS-16C (Sanyo)	R0053	DT1610	56
CZD022-5	Z0231	D5S	R0104	D101B	254	DD4026	R0134	DS-16D	R0050	DT3301	241
D1A	Z0217	D5U	Z0417	D102	56	DD4066	R0134	DS-16D (Sanyo)	R0051	DT3302	241
D1B	R9001	D5V	R0050	D105B	254	DD4068	R0137	DS-16E (Sanyo)	R0050	DT6110	232
D1C	R9001	D5W	Z0108	D105C	R0056	DD4520	R0130	DS-16NE	R0053	DTG110	232
D1D	R0056	D5Z	Z0422	D108	R0056	DD4521	R0131	DS-17	254	DTG110B	236
D1E	R0054	D6	R9002	D124B	175	DD4523	R0132	DS-18	R0054	DTG600	236
D1F	Z0433	D6A	Z0220	D126	238	DD4526	R0134	DS-19	R0054	DTG601	626
D1G	Z0412	D6B	Z0225	D133	56	DD4532	R0162	DS21	253	DTG602	236
D1H	R0052	D6D	R0102	D134	254	DE14	R0053	DS22	253	DTG603	236
D1J	R0050	D6E	R0104	D135	254	DE14A	R0053	DS23	253	DTG1010	235
D1K	R0056	D6F	R0600	D141	53	DE16	R0054	DS24	253	DTG1100	235
D1L	R0050	D6G	Z0406	D149	640	DE16A	R0054	DS25	639	DTG1200	236
D1M	Z0407	D6HZ	R0054	D156	254	DER1	R0056	DS25	639	DTG2000	236
D1N	622	D6J	Z0444	D171	254	DF-2	247	DS-25	639	DTG2100	236
D1R	620	D6K	Z2528	D172	638	DGINR	R0054	DS26	254	DTG2200	236
D1R-1	621	D6L	R0100	D173	640	DGIPIR	R0050	DS-27	134	DTM-12	702
D-1R35	135	D6M	Z0411	D174	638	DH14	R0053	DS29	3	DTS-103	704
D-1R39	135	D6N	Z0219	D180	254	DH14A	R0053	DS-31	R0700	DTS-104	704
D1S	Z0416	D6R	Z0415	D185	56	DH16	R0054	DS34	3	DTS-105	704
D1T	Z0417	D6S	R0600	D187	254	DH16A	R0054	DS35	2	DTS-106	704
D1U	S0006	D6T	Z2519	D188	56	DH-001	R9002	DS36	639	DTS-107	704
D1V	R1001	D6U	Z0421	D190	54	DHD800	R0700	DS37	3	DTS402	740
D1W	Z0424	D6V	Z0217	D191	two R0054	D155	R0054	DS38	3	DTS410	707
D1Y	732	D6Y-1	R0222	D193	254	D171	R0052	DS-39	134	DTS411	707
D1Z-1	Z0416	D6Y-2	R0222R	D195	53	D1645	R0053	DS41	3	DTS413	707
D1Z-2	Z0417	D6Y-3	R0222	D200	R0052	D1646	R0053	DS42	3	DTS423	707
D1Z-3	Z0417	D6Y-4	R0222R	D286	135	D1647	R0053	DS44	641	DT5423M	707
D1Z-4	Z0418	D6Y-5	R0222	D292	718	D1648	R0054	DS45	54	DT5430	707
D1ZBLU	Z0418	D6Y-6	R0222R	D300	R0053	D1649	R0054	DS46	54	DT5431	707
D1ZRED	Z0417	D6Y-7	R0222	D313	Z0211	D1650	R0055	DS47	54	DT5701	740
D1ZVIO	Z0416	D6Y-8	R0222R	D400	R0053	D1705	R0050	DS-49	Z0411	DU1	3
D1ZYEL	Z0417	D7	R9002	D500	R0054	D1CR1	R0056	DS51	639	DU2	2
D-2	R0054	D7A	Z0415	D800	R0055	DK19	134	DS52	639	DU3	253
D2-1	R0054	D7ABRN	Z0415	D1000	R0056	DK20	134	DS53	639	DU4	254
D2A	R0082	D7A30	243	D1003	R0131	DK21	135	DS-55	134	DU5	253
D2B	R0086	D7A31	243	D1010	R0131	DK003	R0138	DS56	3	DU6	230
D2D	Z0234	D7A32	243	D1101	801	DK010	R0138	DS62	3	DU7	231
D2E	Z0426	D7AGRN	Z0415	D1102	801	DM-11	C6082P	DS63	3	DU12	3
D2F	311	D7AORN	Z0414	D1301	801	DM-14	C6074P	DS64	3	DU400	R0053
D2G	Z0414	D7AWHT	Z0414	D1302	801	DM-24	C6065P	DS65	3	DU600	R0054
D2G-1	Z0414	D7BBLU	Z0418	D1303	801	DM-30	C6080P	DS66	54	DZ10A	Z0220
D2G-2	Z0414	D7BRED	Z0417	D1666	56	DM-31	C6062P	DS-66	50	DZ12	Z0416
D2G-3	Z0415	D7BYEL	Z0417	D2003	R0132	DM930N	C1030P	DS67	54	DZ12A	Z0222
D2G-4	Z0415	D7BYIL	Z0416	D2010	R0132	DM936N	C1036P	DS-67	54	DZ-13	Z0416
D2H	R0052	D7D	Z0210	D3003	R0134	DM946N	C1046P	DS-68	52	DZ15A	Z0225
D2J	R0053	D7E	Z0219	D3010	R0134	DM962N	C1062P	DS-71	53	DZ18A	Z0228
D2K	600	D7F	Z0230	D4003	R0134	DM8000N	C3000P	DS-72	53	DZ22A	Z0231
D2L	601	D7G	Z0426	D4010	R0134	DM8001N	C3001P	DS-73	53	DZ27	Z0424
D2R-3	R0101	D7H	Z0214	D5003	R0136	DM8002N	C3002P	DS-74	56	DZ27A	Z0234
D2R31	135	D7K	R1222	D5010	R0136	DM8004N	C3004P	DS-76	53	DZ33A	Z0426
D2T	R0090	D8HZ	R0055	D6003	R0136	DM8010N	C3010P	DS-77	54	DZ82A	Z0436
D2U	738	D01-100	R0054	D6010	R0136	DM8020N	C3020P	DS-78	50	E1	R0052
D2W	600	D13T1	S9001	D6462	134	DM8030N	C3020P	DS-79	R0050	E1A	733
D2Z	Z0412	D15A	R0052	D6623	R0052	DM8040N	C3040P	DS-81	50	E1A3	R0160
D2Z-1	Z0423	D15C	R0052	D6623A	R0052	DM8050N	C3050P	DS-83	51	E1B3	R0131
D2Z-2	Z0424	D16E7	55	D6624	R0052	DM8501N	C3073P	DS-85	53	E1C3	R0132
D2Z-3	Z0414	D16E9	55	D6624A	R0052	DM8550N	C3075P	DS-97	R0600	E1D3	R0134
D3A	R0050	D16EC18	726	D6625	R0052	DM8840N	C3041P	DS-149	Z0411	E1E3	R0134
D3C	R1221	D16K1	56	D6625A	R0052	DM9093N	C1053P	DS-159	Z0408	E1F3	R0134
D3D	R0102	D16K2	56	D6726	134	DP100	R0056	DS410	135	E1G3	R0134
D3E	621	D16K3	56	D8003	R0137	DR1	R0052	DS410R	R0602	E1H3	R0136
D3F	Z0412	D16P2	S9100	D8010	R0137	DR3	R0052	DS501	134	E1K3	R0136
D3G	R9002	D16U3	R9001	D00169C	135	DR4	R0053	DS501	231/233	E1M3	R0137
D3H	R9001	D16U4	R9001	D00484R	Z0414	DR5	R0053	DS501	233	E1N3	R0137
D3J	Z0415	D18	R0052	D10145	R0050	DR100	R0052	DS502	231/233	E2	R0052
D3K	R0136R	D25C	R0052	D10167	R0050	DR200	R0052	DS503	232	E2A3	R0130
D3L	R1244	D28	R0052	D10168	R0050	DR291	134	DS-503	232	E2B3	R0131
D3N	Z0414	D28A5	244	DA000	R0052	DR300	R0053	DS504	233	E2C3	R0132
D3R	R0050	D28A6	244	DA001	R0052	DR351	134	DS505	233	E1D3	R0134
D-3R38	R0053	D28A9	245	DA002	R0052	DR352	134	DS506	233	E2E3	R0134
D3-R39	R0050	D28A12	244	DA006	R0094	DR365	135	DS509	704	E2F3	R0134
D3U	R0052	D28A13	244	DA058	R0055	DR385	134	DS-513	245	E2G3	R0134
D3V	R0053	D28D1	244	DA711	R0251	DR400	R0053	DS515	232	E2H3	R0136
D3W	Z0415	D28D2	244	DA716	R0255	DR426	134	DS-519	704	E2K3	R0136
D3Y	Z0408	D28D3	244	DA776	R0255	DR427	135	DS520	232	E2M3	R0137
D3Z	R0050	D28D4	244	DA777	R0257	DR434	134	DS525	231/233	E2N3	R0137
D4	R9001	D28D5	244	DA2068	R0055	DR435	135	DSS16685	135	E3	R0053
D4BE102	230	D29A4	51	DA11A	52	DR449	135	DSZ510	22545	E3A3	R0130
D4BE103	230	D29A5	52	DA12	52	DR464	135	DSZ520	22545	E3B3	R0131
D4BE104	232	D29A6	716	DB776	R0255	DR500	R0054	DSZ5707	22510	E3C3	R0132
D4F	Z0217	D40N1	S3021	DB777	R0257	DR600	R0054	DSZ5709	22513	E3D3	R0134
D4H	Z0426	D40N3	S3022	DC-9	254	DR700	R0055	DSZ5710	22514	E3E3	R0134
D4J	Z0426	D41D1	S3027	DC-10	632	DR800	R0055	DSZ5712	22516	E3F3	R0134
D4K	Z0215	D41D2	S3028	DC-12	238	DR900	R0056	DSZ5715	22519	E3G3	R0134
D4L	R0056	D41D4	S3027	DC-13	134	DR1000	R0056	DSZ5718	22522	E3H3	R0136
D4M	R0602	D41D5	S3028	DC-14	R0050	DRS102	R0092	DSZ5722	22525	E3K3	R0136
D4N	Z0222	D41D7	S3031	DC8467	R0602	DRS104	R0094	DSZ5727	22528	E3M3	R0137
D4P	Z0224	D41D8	S3031	DD04	R9001	DRS106	R0096	DSZ5733	22531	E3N3	R0137
D4R	134	D45C	R0053	DD06	R9002	DRS107	R0055	DSZ5756	22537	E4A3	R0130
D4-R39	R0050	D45CZ	R0053	DD000	R0050	DRS108	R0097	DSZ5807	22510	E4B3	R0131
D4S-1	R0220	D48	R0053	DD003	R0052	DRS110	R0098	DSZ5809	22513	E4C3	R0132
D4S-2	R0220R	D50	R0050	DD006	R0053	DS1K	R0054	DSZ5810	22514	E4D3	R0134
D4S-3	601	D51	R9001	DD056	R0053	DS-1K	R0054	DSZ5812	22516	E4E3	R0134
D4S-4	600	D55	R1220	DD058	R0055	DS1M	R0054	DSZ5815	22519	E4F3	R0134
D4T	R0054	D65C	R005								

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DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
E5F3	R0134	EA15X18	54	EA1630	53	ECG141	Z0414	ECG5139	Z2528	ECG5675	R1785
E5G3	R0134	EA15X19	254	EA1684	243	ECG142	Z0415	ECG5680	Z2531	ECG5680	R1781
E5H3	R0136	EA15X22	54	EA1695	721	ECG143	Z0416	ECG5681	Z2537	ECG5681	R1781
E5K3	R0136	EA15X24	54	EA1696	53	ECG144	Z0417	ECG5682	Z2542	ECG5682	R1782
E5M3	R0137	EA15X26	232	EA1697	53	ECG145	Z0418	ECG5683	Z2545	ECG5683	R1783
E5N3	R0137	EA15X31	54	EA1698	53	ECG146	Z0424	ECG5684	Z2547	ECG5684	R1785
E6	R0054	EA15X33	230	EA1700	232	ECG147	Z0426	ECG5685	Z3511	ECG5685	R1785
E6A3	R0130	EA15X35	230	EA1703	53	ECG148	Z0432	ECG5800	Z3512	ECG5800	R0090
E68	Z0416	EA15X36	254	EA1716	243	ECG149	Z0433	ECG5801	Z3514	ECG5801	R0091
E683	R0131	EA15X37	54	EA1718	721	ECG150	Z0436	ECG5802	Z3516	ECG5802	R0092
E6C3	R0132	EA15X38	230	EA1733	55	ECG151	Z0439	ECG5803	Z3518	ECG5803	R0094
E6D3	R0134	EA15X41	3	EA1735	53	ECG152	245	ECG5804	Z3520	ECG5804	R0094
E6E3	R0134	EA15X44	54	EA1793	55	ECG153	246	ECG5805	Z3522	ECG5805	R0096
E6F3	R0134	EA15X45	54	EA1872	721	ECG154	706	ECG5806	Z3524	ECG5806	R0096
E6G3	R0134	EA15X48	56	EA1873	738	ECG156	170	ECG5807	Z3527	ECG5807	R0097
E6H3	R0136	EA15X49	56	EA2131	720	ECG157	244	ECG5809	Z3530	ECG5809	R0098
E6K3	R0136	EA15X50	56	EA2132	56	ECG158	238	ECG5830	Z3536	ECG5830	R0130
E6M3	R0137	EA15X51	54	EA2133	638	ECG159	708	ECG5831	R1001	ECG5831	R0130R
E6N3	R0137	EA15X52	54	EA2134	633	ECG160	636	ECG5832	R1002	ECG5832	R0131
E7A3	R0130	EA15X53	230	EA2135	632	ECG161	719	ECG5833	R1003	ECG5833	R0131R
E7B3	R0131	EA15X54	56	EA2136	632	ECG162	707	ECG5834	R1004	ECG5834	R0132
E7C3	R0132	EA15X55	56	EA2137	135	ECG163	740	ECG5835	R1005	ECG5835	R0132R
E7D3	R0134	EA15X56	54	EA2138	R2502	ECG164	707	ECG5836	R1220	ECG5836	R0134
E7E3	R0134	EA15X63	54	EA2140	R9002	ECG165	740	ECG5837	R1220	ECG5837	R0134R
E7F3	R0134	EA15X67	254	EA2176	632	ECG171	S3021	ECG5838	R1221	ECG5838	R0134
E7G3	R0134	EA15X68	54	EA2219	54	ECG172	S9100	ECG5839	R1221	ECG5839	R0134R
E7H3	R0136	EA15X69	52	EA2220	54	ECG175	241	ECG5840	R1215	ECG5840	R0136
E7K3	R0136	EA15X70	52	EA2349	50	ECG176	238	ECG5841	R1216	ECG5841	R0136R
E7M3	R0137	EA15X71	52	EA2350	50	ECG177	R0602	ECG5842	R1217	ECG5842	R0136
E7N3	R0137	EA15X75	53	EA2351	50	ECG179	G6001	ECG5843	R1218	ECG5843	R0136R
E8	R0055	EA15X76	53	EA2352	54	ECG180	S7001	ECG5846	R1220	ECG5846	R0137
E9	R0055	EA15X77	53	EA2353	54	ECG181	S7000	ECG5847	R1220	ECG5847	R0137R
E10	R0056	EA15X83	53	EA2354	641	ECG182	S5004	ECG5848	R1221	ECG5848	R0138
E84	Z0220	EA15X84	53	EA2355	636	ECG183	S5005	ECG5849	R1221	ECG5849	R0138R
E102	R0052	EA15X85	53	EA2356	636	ECG184	S5003	ECG5850	R1220	ECG5850	R0130
E106	R0054	EA15X86	53	EA2357	54	ECG185	S5007	ECG5851	R1221	ECG5851	R0130R
E108	R0055	EA15X88	232	EA2490	54	ECG186	245	ECG5852	R1222	ECG5852	R0131
E132	253	EA15X91	721	EA2491	640	ECG187	246	ECG5853	R1223	ECG5853	R0131R
E158	254	EA15X94	55	EA2493	53	ECG188	714	ECG5854	R1215	ECG5854	R0132
E202	170	EA15X95	54	EA2494	53	ECG189	S3031	ECG5855	R1216	ECG5855	R0132R
E210	721	EA15X96	53	EA2495	53	ECG190	S3021	ECG5856	R1217	ECG5856	R0134
E211	717	EA15X101	721	EA2496	53	ECG191	S3021	ECG5857	R1218	ECG5857	R0134R
E212	243	EA15X102	738	EA2497	639	ECG400	502	ECG5858	R1220	ECG5858	R0134
E213	242	EA15X103	724	EA2498	639	ECG401	502	ECG5859	R1221	ECG5859	R0134R
E241	253	EA15X121	703	EA2499	R0050	ECG407	454	ECG5860	R1221	ECG5860	R0136
E241A	254	EA15X123	247	EA2500	Z0415	ECG408	451	ECG5861	R1222	ECG5861	R0136R
E2418	254	EA15X124	248	EA2501	R0050	ECG409	453	ECG5862	R1241	ECG5862	R0136
E262	Z0415	EA15X130	56	EA2502	135	ECG413	450	ECG5863	R1242	ECG5863	R0136R
E300	R0098	EA15X131	53	EA2503	R2502	ECG414	455	ECG5866	R1243	ECG5866	R0137
E302	R0092	EA15X132	53	EA2604	720	ECG415	452	ECG5867	R1244	ECG5867	R0137R
E304	R0094	EA15X133	640	EA2605	720	ECG703	C6001	ECG5874	R1245	ECG5874	R0138
E306	R0096	EA15X134	53	EA2606	135	ECG703A	C6001	ECG5875	R1246	ECG5875	R0138R
E308	R0097	EA15X135	53	EA2607	R0602	ECG704	591	ECG5876	R1247	ECG5876	R0130
E502	R0102	EA15X136	738	EA2608	Z0212	ECG707	C6067G	ECG5880	R1241	ECG5871	R0130R
E750	R0053	EA15X137	53	EA2770	53	ECG709	C6062P	ECG5881	R1241	ECG5872	R0131
E752	R0052	EA15X138	738	EA2771	55	ECG711	C6069G	ECG5882	R1242	ECG5873	R0131R
E756	R0054	EA15X139	642	EA2812	56	ECG712	C6063P	ECG5883	R1243	ECG5874	R0132
E758	R0055	EA15X140	639	EA2600	720	ECG713	C6057P	ECG5884	R1244	ECG5875	R0132R
E760	R0056	EA15X141	639	EA2601	720	ECG714	C6070P	ECG5885	R1245	ECG5876	R0134
E0788-C	R0054	EA15X142	738	EA2602	720	ECG715	C6071P	ECG5886	R1246	ECG5877	R0134R
E1042	R0846	EA15X143	724	EA2603	720	ECG718	594	ECG5887	R1247	ECG5878	R0134
E1410	R0052	EA15X144	721	EA1380	245	ECG720	595	ECG5891	R1302	ECG5879	R0134R
E1411	R0050	EA15X152	55	E82	177	ECG722	C6056P	ECG5492	R1304	ECG5880	R0136
E1415	R0050	EA15X153	54	E83	175	ECG5005	Z0206	ECG5494	R1307	ECG5881	R0136R
E2412	253	EA15X154	642	E84	176	ECG5007	Z0208	ECG5500	R1300	ECG5882	R0136
E2430	54	EA16X1	135	E86	177	ECG5009	Z0210	ECG5501	R1301	ECG5883	R0136R
E2465	254	EA16X4	R0052	E87	178	ECG5010	Z0211	ECG5502	R1302	ECG5886	R0137
E2466	641	EA16X5	135	EBS-1	R2001	ECG5011	Z0212	ECG5503	R1304	ECG5887	R0137R
E2467	254	EA16X6	Z0414	EC005	R0090	ECG5013	Z0214	ECG5504	R1304	ECG5890	R0138
E2474	637	EA16X9	135	EC010	R0092	ECG5014	Z0215	ECG5505	R1306	ECG5891	R0138R
E2475	637	EA16X19	R2502	EC020	R0092	ECG5016	Z0217	ECG5506	R1306	ECG5892	R0130
E2476	253	EA16X20	R0050	ECG100	254	ECG5018	Z0219	ECG5507	R1307	ECG5893	R0130R
E2477	250	EA16X21	R0050	ECG101	641	ECG5019	Z0220	ECG5520	R1471	ECG5894	R0131
E2478	637	EA16X22	134	ECG102	250	ECG5021	Z0222	ECG5521	R1471	ECG5895	R0131R
E2479	637	EA16X27	135	ECG102A	632	ECG5024	Z0225	ECG5522	R1472	ECG5896	R0132
E2480	250	EA16X28	R2502	ECG103	641	ECG5027	Z0228	ECG5523	R1473	ECG5897	R0132R
E2481	250	EA16X29	Z0222	ECG103A	641	ECG5029	Z0230	ECG5524	R1473	ECG5898	R0134
E2482	630	EA16X30	R0054	ECG104	230	ECG5030	Z0231	ECG5525	R1475	ECG5899	R0134R
E2486	Z0408	EA16X31	R2502	ECG105	231	ECG5033	Z0234	ECG5526	R1475	ECG5900	R0134
E2496	245	EA16X33	R0050	ECG106	52	ECG5066	Z0401	ECG5527	R1475	ECG5901	R0134R
E2497	243	EA16X34	R0050	ECG107	56	ECG5067	Z0403	ECG5540	R1471	ECG5902	R0136
E2498	242	EA005	R0050	ECG108	S0004	ECG5069	Z0405	ECG5541	R1471	ECG5903	R0136R
E2499	738	EA010	R0052	ECG109	134	ECG5071	Z0409	ECG5542	R1472	ECG5904	R0136
E10171	R0050	EA020	R0052	ECG111	R0700	ECG5072	Z0411	ECG5543	R1473	ECG5905	R0136R
E10172	R0050	EA030	R0053	ECG112	R0700	ECG5074	Z0414	ECG5544	R1475	ECG5908	R0137
E21135	135	EA040	R0053	ECG113	R9001	ECG5075	Z0419	ECG5545	R1475	ECG5909	R0137R
E21430	134	EA050	R0054	ECG115	R9002	ECG5077	Z0420	ECG5600	R1721	ECG5910	R0138
E21431	Z0408	EA060	R0054	ECG116	R0054	ECG5079	Z0421	ECG5601	R1721	ECG5911	R0138R
E24100	R0050	EA080	R0055	ECG117	R0054	ECG5080	Z0422	ECG5602	R1722	ECG5940	R0160
E24101	R0092	EA100	R0056	ECG121	232	ECG5081	Z0423	ECG5603	R1723	ECG5941	R0160R
E24103	738	EA1123	135	ECG122	R1243	ECG5086	Z0428	ECG5604	R1725	ECG5942	R0161
E24104	633	EA1318	Z0414	ECG123	S0002	ECG5088	Z0430	ECG5605	R1725	ECG5943	R0161R
E24105	641	EA1337	3	ECG123A	736	ECG5090	Z0432	ECG5621	R1721	ECG5944	R0162
E24106	254	EA1338	3	ECG124	240	ECG5096	Z0438	ECG5622	R1721	ECG5945	R0162R
E24107	642	EA1339	3	ECG125	R0056	ECG5097	Z0440	ECG5623	R1722	ECG5946	R0164
E570022-01	241	EA1340	3	ECG126	251	ECG5100	Z0442	ECG5624	R1723	ECG5947	R0164R
EA15X1	54	EA1341	230	ECG127	235	ECG5103	Z0444	ECG5625	R1725	ECG5948	R0164
EA15X2	254	EA1342	3	ECG128	S3021	ECG5105	Z0445	ECG5626	R1725	ECG5949	R0164R
EA15X3	254	EA1343	54	ECG129	S3031	ECG5111	Z2500	ECG5631	R1721	ECG5950	R0166
EA15X4	254	EA1344	54	ECG130	247	ECG5113	Z2502	ECG5632	R1722	ECG5951	R0166R
EA15X5	736	EA1345	50	ECG131	642	ECG5115	Z2504	ECG5633	R1723	ECG5952	R0166
EA15X6	231/233	EA1346	254	ECG132	802	ECG5117	Z2506	ECG5634	R1725	ECG5953	R0166R
EA15X7	254	EA1385	R2502	ECG133	801	ECG5119	Z2508	ECG5635	R1725	ECG5980	R0250
EA15X8	2										

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DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
ECG5990	R0255	EM403	R0053	ER42	R0053	ES15X85	243	ES87	716	EVRR9A	Z0412
ECG5991	R0255R	EM404	R0053	ER50	R0090	ES15X86	245	ES88	S3002	EVRR9B	Z0412
ECG5992	R0256	EM405	R0054	ER51	R0054	ES15X87	718	ES89	S3021	EVRR11	Z0414
ECG5993	R0256R	EM406	R0054	ER52	R0054	ES15X88	718	ES90	233	EVRR11A	Z0414
ECG5994	R0257	EM407	R0056	ER62	R0054	ES15X89	712	ES93	232	EVRR11B	Z0414
ECG5995	R0257R	EM408	R0055	ER81	R0055	ES15X90	52	ES310	253	EVRR12	Z0415
ECG6402	S9001	EM410	R0056	ER001D	R0050	ES15X91	244	ES311	253	EVRR12A	Z0415
ECG6403	R2001	EM501	R0052	ER101	R0052	ES15X92	802	ES312	253	EVRR12B	Z0415
ECG6404	R2021	EM502	R0052	ER102	R0092	ES15X93	S0001	ES313	253	EVRR15	Z0418
ECG6407	311	EM503	R0053	ER102D	R0052	ES15X94	740	ES314	254	EVRR15A	Z0418
ED4	134	EM504	R0053	ER103D	R0053	ES15X95	240	ES315	254	EVRR15B	Z0418
ED6	135	EM505	R0054	ER104D	R0053	ES15X96	719	ES316	254	EVRR27	Z0424
ED7	R0700	EM506	R0054	ER105D	R0054	ES15X97	56	ES3120	253	EVRR27A	Z0424
ED8	R0052	EM507	R0055	ER106D	R0054	ES15X98	703	ES3121	253	EVRR27B	Z0424
ED10	135	EM508	R0055	ER107D	R0055	ES15X99	643	ES3122	253	EVRR56	Z0432
ED11	two 135	EM510	R0056	ER108D	R0055	ES15X100	632	ES3123	254	EVRR56A	Z0432
ED14	R0220	EN10	55	ER181	R0050	ES15X101	52	ES3124	254	EVRR56B	Z0432
ED15	R0220R	EN30	55	ER182	R0052	ES15X104	718	ES3125	254	EVRR82	Z0436
ED16	R0222	EN40	55	ER183	R0052	ES15X105	718	ES3126	254	EVRR82A	Z0436
ED-17	R0222R	EN697	736	ER184	R0053	ES15X106	718	ES3266	720	EVRR82B	Z0436
ED19	R0222R	EN706	732	ER185	R0054	ES15X107	712	ES110/50	R0162	EVRR110	Z0439
ED20	R0222R	EN708	S0004	ER186	R0055	ES16	247	ES110/100	R0162	EVRR110A	Z0439
ED21	R0052	EQ44A	254	ER187	R0056	ES16X3	135	ESKE40C500	R0053	EVRR110B	Z0439
ED23	R0053	EO65	253	ER201	R0052	ES16X5	134	ESKE125C500	R0055	EVRS82BA	728
ED29	R0055	EO66	253	ER202	R0092	ES16X6	135	ET1	3	EW162	738
ED31	3	EO67	253	ER301	R0053	ES16X7	135	ET1P	R0054	EW163	53
ED50	P2001	EO68	253	ER308	R0055	ES16X12	134	ET2	2	EW164	53
ED51	3	EO70	253	ER310	R0056	ES16X13	R0050	ET3	253	EW165	55
ED52	253	EO105	253	ER401	R0053	ES16X14	135	ET4	254	EW165V	55
ED53	253	EP15X1	736	ER402	R0094	ES16X16	R0053	ET5	253	EW166	135
ED54B	253	EP15X2	54	ER501	R0054	ES16X19	134	ET6	230	EW167	135
ED55	254	EP15X3	714	ER601	R0054	ES16X24	20415	ET7	231	EW168	135
ED56	254	EP15X4	51	ER602	R0096	ES16X25	R0050	ET12	3	EW169	R0050
ED57	254	EP15X5	714	ER801	R0055	ES16X27	R0602	ET15X1	254	EW169B	R0054
ED-60	135	EP15X6	55	ER802	R0097	ES16X29	20422	ET15X2	56	EW181	55
ED150	P2003	EP15X7	736	ER1001	R0056	ES16X30	R0602	ET15X3	720	EW182	55
ED360	P2002	EP15X8	53	ER1002	R0098	ES16X32	R0050	ET15X4	232	EW183	246
ED2842	R0053	EP15X9	736	ERV-02F2150M	R0054	ES16X33	R0053	ET15X5	232	EW183B	703
ED2843	R0053	EP15X10	714	ES1	636	ES17	254+641	ET15X7	55	EW212	720
ED2844	R0053	EP16X2	Z0424	ES2	251	ES18	232	ET15X9	55	EX4053	C6056P
ED2845	R0054	EP16X3	135	ES3	639	ES19	635	ET15X10	54	EZ3	Z0402
ED2846	R0054	EP16X4	R0052	ES4	238	ES20	728	ET15X11	54	EZ3-7	Z2510
ED2847	R0055	EP16X5	Z0418	ES5	641	ES21	232	ET15X12	54	EZ3-12	Z2516
ED2848	R0055	EP16X6	R9001	ES6	641	ES22	S3001	ET15X14	54	EZ3-15	Z2519
ED2849	R0056	EP16X7	53	ES7	642	ES23	3	ET15X16	54	EZ5	Z0405
ED2910	R0055	EP16X8	R2502	ES8	637	ES24	240	ET15X17	232	EZ5-3	Z2500
ED2911	R0055	EP16X20	135	ES9	230	ES25	636	ET15X18	56	EZ5R6	Z0407
ED2912	R0056	EP16X21	135	ES10	231	ES26	250	ET15X19	56	EZ9	Z0412
ED2913	R0056	EP16X27	R0602	ES11	636	ES27	236	ET15X20	54	EZ10-7	Z3507
ED2914	R0050	EP16X30	R0602	ES13	230	ES29	643	ET15X21	55	EZ10-10	Z3512
ED2915	R0052	EP20	57	ES14	636	ES31	704	ET15X23	55	EZ10-12	Z3514
ED2916	R0052	EP25	57	ES15	637	ES32	712	ET15X24	54	EZ11	Z0414
ED2917	R0052	EP35	57	ES15X1	54	ES33	707	ET15X26	235	EZ12	Z0415
ED2918	R0053	EP57X1	R0054	ES15X4	254	ES34	715	ET15X29	3	EZ13	Z0416
ED2919	R0053	EP-200	R0052	ES15X7	54	ES35	two 247	ET15X30	56	EZ14	Z0417
ED2920	R0054	EP-400	R0053	ES15X8	254	ES36	703	ET15X31	254	EZ15	Z0418
ED2921	R0054	EP-600	R0054	ES15X10	54	ES36X103	135	ET15X32	254	EZ27	Z0424
ED2922	R0055	EP-800	R0055	ES15X11	54	ES37	238	ET15X34	706	EZ33	Z0426
ED2923	R0055	EP-1000	R0056	ES15X12	54	ES39	244	ET15X37	54	EZ56	Z0432
ED2924	R0056	EP-1428-2H	R0054	ES15X14	54	ES40	713	ET15X40	232	EZ62	Z0433
ED3000	R0050	EPY62111	P0001	ES15X16	54	ES41	3	ET15X41	736	EZ82	Z0436
ED3000A	R0050	EQG-6	232	ES15X17	230	ES42	235	ET15X42	54	EZ110	Z0439
ED3000B	R0050	EQG-9	633	ES15X18	56	ES43	S7000	ET15X43	230	F1	R0052
ED3001	R0052	EQG-20	250	ES15X19	56	ES44	703	ET16X1	135	F1A3	R0160
ED3001A	R0052	EQH-1	641	ES15X20	54	ES45	703	ET16X7	R9001	F1B3	R0161
ED3001B	R0052	EQH-20	641	ES15X23	54	ES46	S0004	ET16X10	R9001	F1C3	R0162
ED3002	R0052	EQS-18	53	ES15X24	54	ES47	310	ET16X11	R9001	F1D3	R0164
ED3002A	R0052	EQS-19	56	ES15X30	56	ES49	702	ET16X17	Z0407	F1E3	R0164
ED3002B	R0052	EQS-20	56	ES15X31	254	ES50	643	ET57X30	R0052	F1F3	R0164
ED3003	R0053	EQS-21	56	ES15X32	254	ES51	242	ET200	R0052	F1G3	R0164
ED3003A	R0053	EQS-22	736	ES15X37	54	ES52	720	ET400	R0053	F1H3	R0166
ED3003B	R0053	EQS-56	S3020	ES15X42	54	ES53	S0004	ET600	R0054	F1K3	R0166
ED3004	R0053	ER1	R0050	ES15X43	230	ES54	S0007	ET1511	254	F2	R0052
ED3004A	R0053	ER2	R0050	ES15X48	641	ES55	704	ETD-1	311	F-2	R0052
ED3004B	R0053	ER10 (Elcom)	R0160	ES15X49	254	ES56	714	ETS-070	242	F2A3	R0160
ED3005	R0054	ER11	R0052	ES15X50	633	ES57	714	ETS-071	242	F2B3	R0161
ED3005A	R0054	ER11 (Elcom)	R0161	ES15X51	232	ES57X4	R0050	ETTB-75LB	254	F2C3	R0162
ED3005B	R0054	ER12	R0052	ES15X52	625	ES57X5	R0052	ETTB-367B	642	F2D3	R0164
ED3006	R0054	ER12 (Elcom)	R0162	ES15X53	250	ES57X6	R9001	ETTC-458LG	53	F2E3	R0164
ED3006A	R0054	ER13 (Elcom)	R0164	ES15X54	235	ES57X7	Z0215	ETX18	54	F2F3	R0164
ED3006B	R0054	ER14 (Elcom)	R0164	ES15X55	635	ES57X8	R0054	EU15X1	50	F2G3	R0164
ED3007	R0055	ER15 (Elcom)	R0166	ES15X56	709	ES57X9	R0050	EU15X2	56	F2H3	R0166
ED3007A	R0055	ER15X10	232	ES15X57	56	ES57X12	R0054	EU15X3	720	F2K3	R0166
ED3007B	R0055	ER15X11	3	ES15X58	738	ES57X14	R0843	EU15X27	53	F3	R0053
ED3008	R0055	ER15X12	3	ES15X59	712	ES58	245	EU15X34	55	F3A3	R0160
ED3008A	R0055	ER15X13	3	ES15X60	53	ES59	236	EU16X1	135	F3B3	R0161
ED3008B	R0055	ER15X14	3	ES15X61	639	ES60	246	EU16X4	R0700	F3C3	R0162
ED3009	R0056	ER15X15	2	ES15X62	53	ES61	642	EU16X8	R9003	F3D3	R0164
ED3009A	R0056	ER15X16	2	ES15X63	253	ES62	S0001	EU16X14	R0700	F3E3	R0164
ED3009B	R0056	ER15X17	254	ES15X64	719	ES63	238	EU16X19	134	F3F3	R0164
ED3010	R0056	ER15X18	254	ES15X65	56	ES64	248	EU30X87	R2502	F3G3	R0164
ED3010A	R0056	ER15X19	3	ES15X66	56	ES65	715	EU57X30	R0054	F3H3	R0166
ED3010B	R0056	ER15X20	3	ES15X67	56	ES66	S5001	EU57X31	R0056	F3K3	R0166
EDG-1	135	ER15X21	3	ES15X68	53	ES67	S5002	EU57X32	R9001	F4	R0054
EDJ-363	R0050	ER15X22	254	ES15X69	56	ES68	242	EU57X38	R0054	F-4	R0055
EDS-1	R0600	ER15X23	254	ES15X70	56	ES69	247	EU57X40	R0054	F4A3	R0250
EDS-4	R0050	ER16 (Elcom)	R0166	ES15X71	641	ES70	714	EUS-1	R2021	F4B3	R0251
EDZ-2	Z0412	ER17	R0137	ES15X72	641	ES71	244	EV7	R2500	F4C3	R0253
EF1	802	ER18	R0138	ES15X73	253	ES72	S3008	EV10	R2501	F4D3	R0254
EF2	802	ER20 (Elcom)	R0250	ES15X74	641	ES73	53	EV11	R2501	F4E3	R0254
EF3	803	ER21	R0052	ES15X75	238	ES74	S7001	EV15	R2502	F4F3	R0255
EF4	F2005	ER21 (Elcom)	R0251	ES15X76	75	ES76	706	EV32	R2503	F4G3	R0255
EF5	F2005	ER22	R0052	ES15X77	234	ES77	S9001	EVM511	R0054	F4H3	R0256
EF6	F2007	ER22 (Elcom)	R0253	ES15X78	230	ES80	245	EVRA	Z0407	F4K3	R0257
EF100	R0056	ER23 (Elcom)	R0254	ES15X79	718	ES81	246	EVRA4	Z0407	F5	R0054
EG100	R0053	ER24 (Elcom)	R0255	ES15X80	53	ES82	S3020	EVRA4B	Z0407	F5A3	R0250
EG100H	R0054	ER25 (Elcom)	R0256	ES15X81	53	ES83	S3031	EVRA5	Z0408	F5B3	R0251
EM1J2	R0054	ER26 (Elcom)	R0257	ES15X82	56	ES84	740	EVRA5A	Z0408	F5C3	R0253
EM401	R0052	ER31	R0053	ES15X83	719	ES85	S0004				

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DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
F5F3	R0255	FE102A	801	FWB-60	178	G845	135	GE-1	2	GE T888	633
F5G3	R0255	FE104A	801	FWB3001	176	G846	135	GE-2	250	GE T889	251
F5H3	R0256	FE400	801	FWB3002	176	G847	135	GE-3	230	GE T890	633
F5K3	R0257	FE402	801	FWB3003	177	G868	135	GE-4	231	GE T891	630
F6	R0055	FE402A	801	FWB3004	177	G869	135	GE-5	641	GE T892	630
F-6	R0055	FE404A	801	FWB3005	178	G1004	R0131	GE-6	641	GE T895	630
F8	R0055	FF274	C6071P	FWB3006	178	G1006	R0131	GE-7	641	GE T896	250
F-8	R0055	FF400	801	FZ3.6T5	Z0402	G1010	R0131	GE-8	641	GE T897	250
F10	R0056	FG-2N	R0050	FZ3.6T10	Z0402	G-1010	135	GE-9	3	GE T898	251
F11	R0092	FG-2Na	R0051	FZ5.1T5	Z0405	G1104	R0138	GE-9A	3	GE T914	S0004
F12	R0091	FG2PC	R3012	FZ5.1T10	Z0405	G1106	R0138	GE-10	55	GE T929	736
F14A	R0050	FH70401E	C6060P	FZ5.6T5	Z0407	G1110	R0138	GE-11	56	GE T930	736
F16H1	Z0214	FJH101	C3030P	FZ5.6T10	Z0407	G2004	R0132	GE-12	240	GE T931	635
F21	R0092	FJH111	C3020P	FZ6.2T10	Z0408	G2006	R0132	GE-13MP	two 230	GE T2221	736
F21P	170	FJH121	C3010P	FZ12A	Z0415	G2010	R0132	GE-14	704	GE T2221A	736
F22	R0092	FJH131	C3000P	FZ12T5	Z0415	G3006	R0134	GE-15MP	two 704	GE T2222	736
F24A	724	FJH141	C3040P	FZ12T10	Z0415	G3010	R0134	GE-16	232	GE T2222A	736
F24B	725	FJH151	C3050P	FZ14T5	Z0417	G4004	R0134	GE-17	729	GE T2369	50
F25A	722	FJH221	C3002P	FZ14T10	Z0417	G4006	R0134	GE-18	S3021	GE T2904	708
F25B	723	FJH231	C3001P	FZ15A	Z0418	G4010	R0134	GE-19	247	GE T2905	708
F42	R0094	FJJ121	C3073P	FZ15T5	Z0418	G5006	R0136	GE-20	53	GE T2906	708
F42Z	R0094	FJJ181	C3075P	FZ15T10	Z0418	G5010	R0136	GE-21	51	GE T2907	708
F54A	716	FK2894	52	FZ27A	Z0424	G6004	R0136	GE-22	S0004	GE T3013	50
F54B	717	FK3502	716	FZ27T5	Z0424	G6006	R0136	GE-23	241	GE T3014	50
F54C	717	FK3962	716	FZ27T10	Z0424	G6010	R0136	GE-24MP	two 703	GE T3638	51
F54D	57	FL274	C6063P	FZ33A	Z0426	G8004	R0137	GE-25	235	GE T3638A	52
F54E	715	FM1J2	R0055	FZ82A	Z0436	G8006	R0137	GE-26	246	GE T3646	50
F62	R0096	FM708	50	FZ901	Z0212	G8010	R0137	GE-27	S3021	GE T5116	3
F62Z	R0096	FM709	56	FZ902	Z0215	G9600	R0137	GE-28	S3020	GE T5117	3
F82	R0097	FM914	56	FZ903	Z0220	G9623	709	GE-29	S3031	GE-X1	R1243
F82Z	R0097	FM2368	56	FZ923	Z0220	G16506	641	GE-30	642	GE-X3	R1301
F102	R0098	FM2369	56	FZ952	Z0215	G59019	R9001	GE-31MP	two 642	GE-X4	R0162
F121-603	708	FM2846	50	G1	R0052	G59122	R0053	GE-32	S3021	GE-X5	R1221
F121-60216	708	FM2894	56	G2	R0052	G101079	641	GE-30	638	GE-X8	641
F136	135	FM3014	56	G3	R0053	G453270	641	GE-51	636	GE-X9	253
F192	134	FND10A	P2501	G4	R0053	GARE	Z0408	GE-52	633	GE-X10	310
F302-1	50	FPR40-1001	53	G4HZ	R0134	GB1	135	GE-53	238	GE-X11	Z0411
F302-2	50	FPR40-1003	56	G4N1	707	GBS203E	R1751	GE-60	729	GE-X12	R1751
F302-1532	54	FPR40-1004	633	G5	R0054	GBS266E	R1751	GE-61	738	GE-X13	311
F302-2532	54	FPR40-1005	632	G5.1T5	Z0405	GBS276D	R1751	GE-62	S0007	GE-X16	R1245
F385-2	714	FPRS0-1001	53	G5.1T10	Z0405	GBS403E	R1752	GE-63	S3020	GE-X16A1938	726
F501	709	FPRS0-1002	53	G5.1T20	Z0405	GBS466E	R1752	GE-64	S9100	GE-X17	S9001
F502	718	FPRS0-1003	56	G5.6T5	Z0407	GBS476D	R1752	GE-66	S3020	GE-X19	P1001
F523	718	FPRS0-1004	56	G5.6T10	Z0407	GC60	253	GE-67	S3031	GE-X36	R0054
F549-1	52	FPRS0-1005	633	G5.6T20	Z0407	GC61	253	GE-69	S3031	GE-X66	R0054
F572-1	54	FPRS0-1006	632	G6	R0054	GC181	253	GE-90	R2504	GE541	R0131
F625-1	738	FPRS0-1011	R0050	G6HZ	R0136	GC182	253	GE208	3	GEZD-3.6	Z0402
F2041	242	FRT120B	P0001	G8	R0055	GC282	2	GE-296X	S9100	GEZD-5.1	Z0406
F3508	243	FR-1	R0050	G8HZ	R0137	GC283	2	GE-300	R0602	GEZD-5.6	Z0407
F3519	721	FR1M	R0053	G9.1T5	Z0412	GC284	2	GE-504A	R0054	GEZD-6.2	Z0408
F3530	56	FR-1M	R0053	G9.1T10	Z0412	GC285	641	GE-505	R0053	GEZD-9.1	Z0412
F3532	56	FR1MD	R0053	G9.1T20	Z0412	GC286	641	GE-509	R0056	GEZD-10.4	Z0220
F3535	709	FR-1N	R0054	G00-003-A	135	GC408	254	GE-510	170	GEZD-12	Z0415
F3549	715	FR1P	R0054	G00-502-A	R0050	GC460	2	GE-510	178	GEZD-15	Z0418
F3559	52	FR-1P	R0054	G04-701-A	230	GC461	2	GE-106	320	GEZD-18	Z0420
F3560	721	FR1U	R0050	G04-703-A	238	GC462	2	GE-FET-1	801	GEZD-20	Z0421
F3561	721	FR2	R0053	G04-704-A	642	GC464	254	GE-FET-2	F0021	GEZD-27	Z0424
F3565	721	FR-2	R0050	G05-010-A	55	GC466	254	GEIC-2	C6063P	GEZD-33	Z0426
F3569	719	FR2-02	R0052	G05-011-A	55	GC520	254	GEIC-5	C6057P	GEZD-39	Z0428
F3571	738	FR2-02C	R3012	G05-015-D	53	GC521	254	GEIC-9	C6056P	GEZD-47	Z0430
F3574	719	FR2-06	R0053	G10	R0056	GC578	254	GEIC-11	F250	C6082P	254
F3589	53	FR2M	R0053	G11	253	GC579	254	GEL2111	GF21	C6062P	254
F3590	715	FR2P	R0050	G12	254	GC580	254	GEL2113	GF32	C6082P	254
F3597	52	FR10	R0054	G12T5	Z0415	GC581	254	GEL2113ALI	641	C6062P	GF T44
F4706	720	FRP	R0054	G12T10	Z0415	GC608	254	GEL2113F1	C6062P	GF T45	3
F4709	724	FS19	135	G12T20	Z0415	GC609	641	GE-M100	1	GF T3008/40	254
F9623	709	FS2003-1	247	G13	3	GC639	254	GEMR-1	R0132	G16506	641
F10124	R0054	FS2042	243	G14	254	GC640	254	GEMR-2	R0255	GIP100D	R0092
F10146	R0052	FS2043	54	G15T10	Z0418	GC641	232	GEMR-3	R1475	GLA39	Z0208
F10180	R0050	FS3266	56	G15T20	Z0418	GC856	254	GEMR-4	R1245	GLA39A	Z0208
F73216	55	FS24954	51	G19	232	GC864	254	GEMR-5	R1221	GLA39B	Z0208
F75116	730	FS27604	728	G27T5	Z0424	GC1082A	632	GEMR-6	S3020	GLA47	Z0210
FA-1	135	FS326690	56	G27T10	Z0424	GC4027	253	GET15	254	GLA47A	Z0210
FA4	R0053	FA11169	R9002	G27T20	Z0424	GC4045	232	GET102	238	GLA47B	Z0210
FA6	R0054	FA11177	R9001	G100B	R0052	GC4062	232	GET103	238	GLA51	Z0211
FA8	R0055	FA11178	R9001	G100D	R0052	GC4144	254	GET104	238	GLA51A	Z0211
FA8005	Z0414	FA1202	R9002	G100G	R0053	GC5000	254	GET105	238	GLA51B	Z0211
FA8006	Z0414	FSA1202	56	G100J	R0054	GC1615-1	721	GET106	238	GLA56	Z0212
FA8007	Z0414	FSP165	56	G100K	R0055	GD1E	134	GET110	238	GLA56A	Z0212
FA8008	Z0414	FSP242-1	56	G100M	R0056	GD1P	134	GET111	238	GLA56B	Z0212
FA8009	Z0225	FT1P	R0054	G110	231/233	GD1Q	134	GET113	238	GLA62	Z0214
FA8010	Z0225	FT10	R0054	G156	134	GD4E	134	GET114	238	GLA62A	Z0214
FA8011	Z0225	FT001	53	G157	134	GD5E	134	GET115	238	GLA62B	Z0214
FA8012	Z0225	FT002	53	G158	135	GD6E	134	GET116	238	GLA68	Z0215
FD13	R0091	FT003	53	G159	135	GD8E	135	GET120	238	GLA68A	Z0215
FS17-08	134	FT004	53	G198	135	GD11E	135	GET535	238	GLA68B	Z0215
FD23	R0092	FT004A	53	G199	135	GD12E	135	GET536	238	GLA82	Z0217
FD43	R0094	FT005	51	G200	135	GD13E	134	GET538	238	GLA82A	Z0217
FD63	R0096	FT006	51	G498	134	GD-25	134	GET581	625	GLA82B	Z0217
FD83	R0097	FT008	51	G504	R0130	GD-26	134	GET582	625	GLA91	Z0219
FD103	R0098	FT008A	51	G506	R0130	GD-29	135	GET583	232	GLA91A	Z0219
FD111	134	FT023	50	G510	R0130	GD-30	134	GET584	232	GLA91B	Z0219
FD222	134	FT024	50	G580	135	GD72E/3	135	GET691	638	GLA100	Z0220
FD1708	R0052	FT025	50	G700	135	GD72E/4	135	GET692	638	GLA100A	Z0220
FD1843	R0602	FT026	50	G701	135	GD72E/5	135	GET693	638	GLA100B	Z0220
FD1980	134	FT052	51	G702	135	GD73E/3	134	GET706	50	GLE300	P2002
FDH6229	R0052	FT709	56	G766	135	GD73E/4	134	GET708	S0004	GM12	R0056
FDZ10A	Z3512	FT0019M	57	G788	135	GD73E/5	134	GET870	632	GM290	3
FDZ10B	Z3536	FT1315	56	G789	135	GD74E/3	134	GET871	631	GM290A	3
FDZ12A	Z2516	FT1324B	56	G790	135	GD74E/4	134	GET872	631	GM378	3
FDZ15A	Z3516	FT1324C	56	G814	135	GD74E/5	134	GET873	631	GM378A	3
FDZ18A	Z3518	FT1341	52	G815	135	GD301	R2502	GET874	638	GM656A	3
FDZ22A	Z3520	FT1746	52	G816	135	GD400	135	GET875	632	GM770	56
FDZ27A	Z3522	FU-1M	R0054	G820	134	GD401	135	GET880	251	GME040-1	52
FDZ33A	Z3524	FU1N	R0054	G821	135	GD402	134	GET881	630	GME0404	52
FDZ56A	Z3530	FV-22	Z0408	G822	135	GD403	135	GET882	630	GME0404-2	52
FDZ82A	Z3534	FV-23	134	G823	135	GD404	135	GET883	631	GME1001	50
FE100	801	FV-24	Z0408	G824	135	GD405	135	GET884	632	GME1002	55
FE100A	801	FWB-20	176	G825	135	GD406	135	GET885	630	GME2001	50
FE102	801	FWB-40	177	G844	135	GD409	134</				

HEP Semiconductor Replacement Cross-References

DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
GME3001	56	GT2906	641	HA5014	641	HC720	R0055	H1B	R0092	HR-61	253
GME3002	56	GT3150	641	HA5016	641	HC730	R0056	H1B005	R0090	HR-62	54
GME4001	50	GT5116	635	HA5020	641	HC-772		H1B010	R0091	HR-63	54
GME4002	55	GT5117	635	HA5021	641	HC-784	56	HJ15		HR-64	54
GME4003	55	GT5148	635	HA5022	641	HC800	R0097	HJ15D	3	HR-65	243
GME6003	50	GT5149	635	HA5023	641	HC-828	728	HJ17	254	HR-67	243
GME9001	56	GT5151	253	HA5024	641	HC-829	50	HJ17P	50	HR-67F	243
GME9002	56	GT5153	635	HA5025	641	HC-838	728	HJ22	254	HR68	S3023
GME9021	56	GTE1	253	HA5026	641	HC-839	728	HJ22D	254	HR-68	S3023
GME9022	56	GTE2	253	HAM-1	254	HC-924	50	HJ23	254	HR-71	715
GMO290	3	GTV	253	HAR10	R0052	HC1000	R0098	HJ23D	254	HR100	R0091
GMO375	3	GV6063	54	HAR15	R0052	HC2520	R0253	HJ32	3	HR101	230
GMO376	3	GZ5.1	Z0405	HAR20	R0052	HC3004	R0104	HJ34	3	HR-101A	232
GMO377	3	GZ6.2	Z0408	HB-32	250	HC-00481	642	HJ34A	2	HR101C	232
GMO378	3	GZ9.1	Z0412	HB-33	250	HC-00644	55	HJ35	230/232	HR101D	232
GMO476B	637	GZ10A	Z3512	HB50	R0090	HC-00828	728	HJ37	3	HR101F	232
GP1622	232	GZ10B	Z3536	HB-54	633	HC-00829	50	HJ50	254	HR-102C	231
GPM1NA	135	GZ12A	Z3514	HB-56	632	HCV	R0050	HJ51	254	HR-106	240
GPM1NB	135	GZ15A	Z3516	HB-75	254	HD-187	641	HJ54	253	HR-107	241
GPM2NA	135	GZ18A	Z3518	HB-75C	254	HD6147	R0050	HJ55	3	HR-107H	241
GR16	R0090	GZ22A	Z3520	HB77	250	HD1000101	134	HJ56	3	HR200	R0092
GR17	R0091	GZ27	Z0424	HB-77	631	HD1000105	135	HJ57	3	HR400	R0094
GR18	R0092	GZ27A	Z3522	HB-77B	633	HD1000105-0	135	HJ60	253	HR600	R0096
GR19	R0094	GZ33A	Z3524	HB-77C	633	HD1000303	134	HJ60A	3	HR800	R0097
GR20	R0094	GZ56A	Z3530	HB100	R0091	HD1000303-0	135	HJ62	253	HR1000	R0098
GR21	R0096	GZ82A	Z3534	HB-156	253	HD2000108	R0050	HJ70	2	HR1220	R0132
GR22	R0096	H10	254	HB-156C	254	HD2000110	R0054	HJ71	253	HR-40336	3
GR23	R0097	H12	Z31/233	HB-172	254	HD2000301	R0054	HJ72	253	HR-40836	3
GR24	R0098	H12A	Z31/233	HB-173	254	HD2000301-0	R0050	HJ73	253	HR-40837	3
GS603	P0001	H50	R0050	HB-175	254	HD2000307	R0054	HJ74	253	HR-43835	3
GSR1	R0056	H087	135	HB-176	254	HD2000308	R0053	HJ226	253	HR-45838	3
GT11	253	H089	Z0415	HB-178	254	HD3000309	Z0215	HJ228	253	HR-45910	3
GT12	253	H091	135	HB-186	633	HD-3000309	Z0215	HJ230	253	HR-45913	3
GT13	253	H100	R0052	HB-187	254	HD3000409	Z0217	HJ315	254	HR-448636	3
GT14	254	H101	R9001	HB200	R0092	HD4000109	R2502	HJX2	253	HSS	254
GT15T5	Z0418	H109	R0054	HB-263	250	HE-1N60	135	HK040519B	238+641	HS10/1	Z0407
GT20	254	H200	R0052	HB-270	254	HE-1N60P	135	HKT-158	50	HS17D	254
GT20R	254	H300	R0053	HB300	R0094	HE-10001	134	HKT-161	50	HS-20	170
GT31	254	H316	135	HB-324	254	HE-10002	135	HM6.B	Z0215	HS22D	254
GT32	254	H400	R0053	HB-365	254	HE-10003	134	HM6.8A	Z0215	HS23D	254
GT33	254	H500	R0054	HB367	642	HE-10024	135	HM6.8B	Z0215	HS2033	Z0206
GT34	254	H585	R0054	HB-367	642	HE-10027	135	HMB.2	Z0217	HS2036	Z0402
GT40	3	H600	R0054	HB400	R0094	HE-0A90	135	HMB.2A	Z0217	HS2039	Z0208
GT41	253	H614	135	HB-415	238	HEP151	R0130	HMB.2B	Z0217	HS2047	Z0210
GT42	254	H615	R9001	HB459	251	HEP153	R0132	HM9.1	Z0219	HS2051	Z0211
GT43	635	H617	R0054	HB-459	251	HEP161	R0090	HM9.1A	Z0219	HS2056	Z0212
GT44	253	H618	R0054	HB-461	629	HEP162	R0092	HM9.1B	Z0219	HS2062	Z0214
GT45	253	H621	R0055	HB-475	254	HEP200	230	HM10	Z0220	HS2068	Z0215
GT46	635	H624	134	HB500	R0096	HEP201	231	HM10A	Z0220	HS2082	Z0217
GT47	635	H781	R9001	HB600	R0096	HEP280	250/253	HM10B	Z0220	HS2091	Z0219
GT74	254	H783	R0052	HB800	R0097	HEP281	251/254	HM12	Z0222	HS2100	Z0220
GT75	254	H800	R0055	HB1000	R0098	HEP622	R1222	HM12A	Z0222	HS2120	Z0222
GT81	254	H815	R0055	HB-00171	254	HESD-1	R0054	HM12B	Z0222	HS2150	Z0225
GT81HS	254	H889	R0050	HB-00172	254	HF-1	50	HM15	Z0225	HS2180	Z0228
GT81R	254	H890	R0054	HB-00175	254	HF-1S334	Z0412	HM15A	Z0225	HS2200	Z0230
GT82	254	H931	56	HB-00176	254	HF-2	54	HM15B	Z0225	HS2220	Z0231
GT109	254	H932	712	HB-00324	254	HF-3	54	HM18	Z0228	HS2270	Z0234
GT109R	254	H933	712	HC30	R0090	HF3H	250	HM18A	Z0228	HS2330	Z0426
GT122	254	H934	S3001	HC-30	R0054	HF3M	250	HM18B	Z0228	HS7033	Z0206
GT123	254	H0300	235	HC35	R0130	HF-4	54	HM20	Z0230	HS7036	Z0402
GT132	254	H1000	R0056	HC-39	R0052	HF-5	50	HM20A	Z0230	HS7039	Z0208
GT167	641	H10174	R0050	HC50	R0080	HF-6	50	HM20B	Z0230	HS7047	Z0210
GT222	253	HA-12	253	HC-56	50	HF6M	251	HM22	Z0231	HS7051	Z0211
GT229	641	HA-15	639	HC65	R0130	HF6M	250	HM22A	Z0231	HS7056	Z0212
GT364	641	HA-30	637	HC67	R0050	HF-7	54	HM22B	Z0231	HS7062	Z0214
GT365	641	HA-49	639	HC68	R0052	HF-8	54	HM27	Z0234	HS7068	Z0215
GT366	641	HA50	R0050	HC69	R0052	HF12H	251	HM27A	Z0234	HS7082	Z0217
GT751	254	HA-52	639	HC71	R0054	HF12M	250	HM27B	Z0234	HS7091	Z0219
GT758	253	HA-53	639	HC72	R0055	HF12N	254	HM100	247	HS7100	Z0220
GT759	254	HA100	R0052	HC73	R0056	HF19D	235	HM150	704	HS7120	Z0222
GT759R	254	HA-101	638	HC80	R0052	HF-19D	234	HO300	235	HS7150	Z0225
GT760	254	HA-102	639	HC100	R0091	HF20H	251	HP205	R0054	HS7180	Z0228
GT760R	254	HA-104	639	HC125	R0130	HF20M	250	HR1	253	HS7200	Z0230
GT761	254	HA200	R0052	HC-183	56	HF35	635	HR2	253	HS7220	Z0231
GT761R	254	HA-201	253	HC200	R0092	HF50	635	HR-2A	R0054	HS7270	Z0234
GT762	254	HA-202	253	HC255	R0250	HF50H	2	HR4	253	HS7330	Z0426
GT762R	254	HA234	637	HC300	R0094	HF50M	2	HR5A	R0053	HS-40021	55
GT763	254	HA-235	637	HC320	R0132	HF75	636	HR-5A	R0054	HS-40022	54
GT766	254	HA-235A	637	HC371	50	HF-10024	135	HR-5AX2	R0054	HS-40023	54
GT766A	254	HA-235C	637	HC372	55	HF-20005	R2502	HR-5B	R0050	HS-40024	54
GT792	641	HA-240	3	HC-373	55	HF-20011	Z0412	HR6	253	HS-40025	54
GT832	3	HA-267	639	HC-380	56	HF-20032	R0053	HR7	253	HS-40026	721
GT904	641	HA-268	639	HC-381	50	HF-20033	Z0409	HR8	253	HT100	52
GT905R	641	HA-269	639	HC-394	709	HF-20034	R0602	HR9	253	HT101	52
GT948	641	HA300	R0053	HC400	R0094	HF-20052	R0054	HR-10	R0054	HT400	50
GT949	641	HA-350	639	HC454	53	HFSD-1A	R0056	HR13	54	HT401	50
GT949R	641	HA-350A	639	HC458	53	HFSD-1A	R0054	HR-15	53	HT040519C	641+254
GT1202	641	HA353	639	HC458	53	HFSD1Z	R0054	HR-16	54	HT040519C-D	238+641
GT1223	254	HA-353	639	HC460	53	HFSD-1Z	R0052	HR17	53	HT101011X	638
GT1604	253	HA-353C	639	HC460	53	HG1007	134	HR-17	53	HT101021A	638
GT1605	253	HA-354	640	HC461	53	HG1008	134	HR-17A	53	HT102341B	637
GT1606	635	HA-354B	640	HC461	53	HG1009	134	HR-18	53	HT102341C	637
GT1607	635	HA400	R0053	HC495	245	HG1010	134	HR-19	53	HT102351B	637
GT1608	641	HA-471	639	HC500	R0096	HG1011	134	HR-19E	234	HT103501A	639
GT1609	641	HA500	R0054	HC-535	56	HG1012	134	HR-28	243	HT104951B	52
GT1644	51	HA-505	246	HC-535A	56	HG1090	135	HR-29	243	HT104951B-0	52
GT1665	254	HA-525	52	HC-535B	56	HG5002	134	HR-30	254	HT104951C	52
GT2693	253	HA600	R0054	HC-537	723	HG5004	134	HR-36	54	HT200540A	633
GT2694	254	HA800	R0055	HC-539	55	HG5006	134	HR-37	54	HT200541B	633
GT2695	253	HA1000	R0056	HC-545	56	HG5007	134	HR-38	243	HT200541B-0	633
GT2696	254	HA2001	801	HC-561	50	HG5008	134	HR-40	3	HT200561C	632
GT2765	641	HA2010	801	HC600	R0096	HG5009	134	HR-43	3	HT200561C-0	632
GT2766	641	HA5001	641	HC620	R0132	HG5078	134	HR-44	3	HT200751B	254
GT2768	641	HA5002	641	HC-645	56	HG5079	135	HR-45	3	HT200770B	632
GT2883	254	HA5003	641	HC-668	56	HG5085	135	HR-47	53	HT200771B	633
GT2884	641	HA5005	641	HC670	R0050	HG5808	135	HR-48	53	HT201721A	254
GT2885	254	HA5009	641	HC680	R0052	HGR1	R0050	HR-50	253	HT201721D	254
GT2886	641	HA5010	641	HC690	R0092	HGR2	R0052	HR-58	50	HT203701B	254
GT2887	254	HA5011	641	HC700	R0053	HGR3	R0052	HR-59	50	HT204051E	238
GT2888	641	HA5012	641	HC710	R0054	HGR4	R0053	HR-60			

HEP Semiconductor Replacement Cross-References

DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
HT204053B	238	HX-50004	243	IRT R60	244	JR30	635	KG41054	S3001	KS2033A	Z2026
HT204071D	230	HX-SE4010	55	IRT R61	707	JR30X	636	KG41055	55	KS2033B	Z2026
HT204671O	642	HZ7	Z0409	IRT R62	75	JR40	230/232	KG41061	S3020	KS2039A	Z2028
HT204736	642	HZ-7B	Z0409	IRT R63	75	JR100	1	KGS1000	253	KS2039B	Z2028
HT204736A	642	HZ11A	Z0413	IRT R64	S3008	JR200	1	KH3400	450	KS2047A	Z2020
HT303620B	55	I9631	721	IRT R65	S3001	K1A5	R0050	KH3401	452	KS2047B	Z2020
HT303711A	50	IC-5 (Elcom)	C6001	IRT R66	S3006	K1B5	R0052	KH3402	455	KS2051A	Z0211
HT303711B	50	IC-5 (Philco)	C6077P	IRT R67	740	K1C5	R0052	KH3405	454	KS2051B	Z0211
HT303711B-0	50	IC-6 (Philco)	C6069G	IRT R69	S9100	K1D5	R0053	KH3406	451	KS2056A	Z0212
HT303721O	55	IC-8 (Elcom)	591	IRT R70	S0004	K1E5	R0053	KH3407	453	KS2056B	Z0212
HT303721O-0	55	IC-8 (Philco)	C6060P	IRT R71	S0004	K1F5	R0054	KN2	R9001	KS2062A	Z0214
HT303801A	56	IC-12 (Philco)	C6070P	IRT R72	S3020	K1G5	R0054	KD4774	230/232	KS2062B	Z0214
HT303801B	56	IC-13 (Philco)	C6071P	IRT R73	S3031	K1H5	R0055	KR50	Z3516	KS2068A	Z0215
HT303801B-0	56	IC-14 (Philco)	C6072P	IRT R74	S3021	K1K5	R0055	KR52	Z3520	KS2068B	Z0215
HT303801C	56	IC-15 (Philco)	C6063P	IRT R75	S3021	K1M5	R0056	KR53	Z3522	KS2082A	Z0217
HT304580B	53	IC-16 (Elcom)	592	IRT R76	245	K2A5	R0050	KR54	Z3524	KS2082B	Z0217
HT304580K	738	IC-16 (Philco)	C6069G	IRT R77	246	K2B5	R0052	KR57	Z3530	KS2091A	Z0219
HT304581B	53	IC-17 (Elcom)	594	IRT R78	706	K2C5	R0052	KR59	Z3534	KS2091B	Z0219
HT304581C	53	IC-17 (Philco)	C6059P	IRT R79	S3021	K2D5	R0053	KR60	Z3536	KS2100A	Z0220
HT306441B	55	IC-1B (Elcom)	595	ISB F1	254	K2E5	R0053	KR602AA	R0130	KS2100B	Z0220
HT306451A	56	IC-1B (Philco)	C6079P	IT23	135	K2F5	R0053	KR602BA	R0131	KS2120A	Z0222
HT307720B	56	IC-19 (Philco)	C6081P	IT23G	135	K2G5	R0054	KR602CA	R0132	KS2120B	Z0222
HT307721C	56	IC-20 (Elcom)	590	J100	R0052	K2H5	R0055	KR602DA	R0132	KS2150A	Z0225
HT307721D	56	IC-21 (Elcom)	C6003	J107	56	K2K5	R0055	KR602EA	R0134	KS2150B	Z0225
HT308281B	72B	IC-21 (Philco)	C6077P	J108	55	K2M5	R0056	KR602FA	R0134	KSKE12C500	R0055
HT308281D	72B	IC-22 (Elcom)	593	J139	55	K3B5	R0052	KR602HA	R0134	KSKE40C200	R0053
HT308281O	72B	IC-26 (Elcom)	C6060P	J139A	55	K3C5	R0052	KR602KA	R0136	KSKE40C500	R0053
HT308291A	50	IC-30 (Elcom)	C1030P	J187	55	K3D5	R0053	KR602MA	R0136	KSKE125C200	R0055
HT308291A-0	50	IC-31 (Elcom)	C1036P	J685	135	K3F5	R0054	KR602PA	R0137	KV1	254
HT308291B	50	IC-32 (Elcom)	C1046P	J961B	721	K3G5	R0054	KR602RA	R0137	KV4	254
HT308291B-0	50	IC-33 (Elcom)	C1053P	J24458	53	K3H5	R0055	KR602VA	R0138	KVR10	Z0220
HT308291C	50	IC-34 (Elcom)	C1062P	J24561	56	K3K5	R0050	KR-00005	134	KZ6	Z0210
HT309301D	56	IC-51 (Elcom)	553	J24562	53	K3M5	R0056	KR-01010	632	KZ6A	Z0410
HT309680B	243	IC-52 (Elcom)	554	J24563	53	K4-500	254	KR-01011	633	L-417-29BLK	232
HT400721D	641	IC-53 (Elcom)	556	J24564	50	K4-501	641	KR-01012	632	L-417-29GRN	232
HT400721E	641	IC-54 (Elcom)	558	J24565	53	K4-505	52	KR-01013	56	L-417-29WHT	232
HT400723A	641	IC-55 (Elcom)	570	J24566	240	K4-506	53	KS-05	R0050	L-417-60	232
HT400723B	641	IC-56 (Elcom)	571	J24567	135	K4-507	53	KS30A	20206	LS021	254
HT400770B	641	IC-57 (Elcom)	572	J24569	R2502	K4-510	56	KS30AF	20206	LS022	254
HT402352B	701	IC-58 (Elcom)	580	J24570	R0052	K4-520	230	KS30B	20206	LS022A	254
HT600011F	52	IC-59 (Elcom)	581	J24620	3	K4-521	230	KS30BF	20206	LS025	254
HT600011H	242	IC-60 (Elcom)	582	J24621	637	K4-525	247	KS31A	20402	LS025A	254
HT600021O	52	IC-61 (Elcom)	583	J24622	637	K4-550	134	KS32A	20208	LS108	2
HTB00010I	712	IC-62 (Elcom)	584	J24623	637	K4-555	R0050	KS32AF	20208	LS121	2
HTB00011F	54	IC-65 (Elcom)	573	J24624	719	K4-557	R0053	KS32B	20208	LS122	2
HTB00011G	736	IC-71 (Elcom)	C3030P	J24625	719	K4A5	R0050	KS32BF	20208	LA300	R0052
HTB00011H	54	IC-74 (Elcom)	C3001P	J24626	630	K4B5	R0052	KS34A	20210	LA600	R0053
HTB00011K	54	IC-80 (Elcom)	C3000P	J24628	two 135	K4C5	R0052	KS34AF	20210	LA800	R0054
HTB00071D	135	IC-82 (Elcom)	C3002P	J24629	135	K4D5	R0053	KS34B	20210	LAA300	R0052
HTB00121O	736	IC-84 (Elcom)	C3004P	J24630	R0053	K4E5	R0053	KS34BF	20210	LAA600	R0053
HTB00131O	243	IC-86 (Elcom)	C3010P	J24631	Z0408	K4F5	R0054	KS35A	20211	LA800	R0054
HTB00161O	709	IC-87 (Elcom)	C3020P	J24632	Z0412	K4G5	R0054	KS35AF	20211	LAB200	R0092
HTB00171O	709	IC-88 (Elcom)	C3040P	J24635	50	K4H5	R0055	KS36A	20212	LAB300	R0092
HTB00181O	54	IC-95 (Elcom)	C3073P	J24636	54	K4M5	R0056	KS36AF	20212	LAB400	R0094
HTB00191H	243	IC-96 (Elcom)	C3075P	J24637	54	K5/2	134	KS36B	20212	LAB500	R0094
HT303621O	56	IC-201 (Elcom)	C6056P	J24639	632	K5A5	R0050	KS36BF	20212	LAB600	R0094
HT303701O	50	IC-209 (Elcom)	C6050G	J24640	242	K5B5	R0052	KS37A	20214	LABB00	R0096
HT3037201	55	IC-213 (Elcom)	C6010	J24641	54	K5C5	R0052	KS37AF	20214	LAB1000	R0097
HT303721O	55	IC500	C6001	J24642	238	K5D5	R0053	KS38A	20215	LAC200	R0092
HT303731O	55	IC501	591	J24643	134	K5E5	R0053	KS3BAF	20215	LAC300	R0092
HTB00071O	135	IC503	C6067G	J24645	R0050	K5F5	R0054	KS38B	20215	LAC400	R0094
HV12	254	IC505	C6062P	J24646	55	K5G5	R0054	KS38BF	20215	LAC500	R0094
HV15	254	IC507	C6063P	J24647	R0053	K5H5	R0055	KS40A	20217	LAC600	R0094
HV-15	254	IC508	C6057P	J24752	55	K5K5	R0055	KS40AF	20217	LAC800	R0096
HV16	254	IC509	C6070P	J24753	51	K5M5	R0056	KS40B	20217	LAC1000	R0097
HV17	253	IC510	C6071P	J24754	245+246	K6A5	R0090	KS40BF	20217	LM304H	C6054G
HV17B	254	IC-724	570	J24832	52	K6B5	R0092	KS41A	20219	LM741CN	C6052P
HV19	254	IC-1303P	592	J24833	633	K7A5	R0090	KS41AF	20219	LM746N	C6057P
HV-23	R0050	ICS-16	453	J24834	632	K7B5	R0092	KS42A	20220	LM1303N	C6055L
HV-25	R0602	IF65	254	J24835	254+641	K7C5	R0092	KS42AF	20220	LM1304N	594
HV26	R0050	INC616B4	R0050	J24836	254	K8A5	R0090	KS42B	20220	LM1305N	595
HV 46	R0602	INJ61224	135	J24837	R0054	K8B5	R0092	KS42BF	20220	LM1307N	C6056P
HV 80	R0052	INJ61225	Z0408	J24838	134	K8C5	R0092	KS44A	20222	LM1351N	C6060P
HV0000405-0	254	INJ61227	R0052	J24840	R2502	K112	R9001	KS44AF	20222	LM1496H	C6050G
HW9 1	Z0412	IR106A1	R1221	J24841	Z0215	K112C	R9001	KS44B	20222	LM1596H	C6050G
HW9 1A	Z0412	IR106B1	R1221	J24842	731	K115J510-1	R9001	KS44BF	20222	LM2111N	C6062P
HW9 1B	Z0412	IR106C1	R1222	J24843	731	K115J510-2	R9001	KS46	20418	LM3064H	C6069G
HW11	Z0414	IR106F1	R1220	J24844	56	K117J460-1	R9001	KS46AF	20225	LM3065N	C6063P
HW11A	Z0414	IR106Y1	R1220	J24845	50	K117J460-2	R9001	KS46F	20225	LM3070N	C6070P
HW11B	Z0414	IR682	R1301	J24846	55	K118J966-2	R9002	KS4BAF	20228	LM3071N	C6071P
HW12	Z0415	IR683	R1302	J24868	641	K118J966-3	R9002	KS4BBF	20228	LMX2B.2	Z0411
HW12A	Z0415	IR685	R1304	J24869	633	K118J966-4	R9002	KS033A	20206	LM23.9	Z2502
HW12B	Z0415	IR688	R1307	J24870	254	K122	R9001	KS033B	20206	LM24.7	Z2504
HW13	Z0416	IR1600	R1241	J24871	R0054	K122C	R9001	KS039A	20208	LM25.6	Z2506
HW13A	Z0416	IR1601	R1242	JA1150	56	K200	R0052	KS039B	20208	LM26.2	Z2508
HW13B	Z0416	IR1602	R1243	JB-BB1A	175	K1615 (Elcom)	R9001	KS047A	20210	LM27.5	Z2510
HW15	Z0418	IR1604	R1245	JC-1001	R0052	K1616 (ITT)	R9001	KS047B	20210	LM29.1	Z2513
HW15A	Z0418	IR1771	R1241	JC-00012	R0052	K1617 (Elcom)	R9002	KS051A	20211	LM210	Z2514
HW15B	Z0418	IR1772	R1242	JC-00017	R0052	K2001	56	KS056A	20212	LM212	Z2516
HW27	Z0424	IR1774	R1243	JC-00028	R0050	K2501	56	KS056B	20212	LM215	Z2519
HW27A	Z0424	IR1777	R1245	JCN1	R0052	K2502	56	KS062A	20214	LM21B	Z2522
HW27B	Z0424	IR1778	R1246	JCN2	R0052	K2507	56	KS068A	20215	LM227	Z2525
HW33	Z0426	IR1843A	R1241	JCN3	R0053	K4002	56	KS068B	20215	LM222	Z2528
HW33A	Z0426	IR1844A	R1242	JCN4	R0053	K4A559	B02	KS0B2A	20217	LM233	Z2531
HW33B	Z0426	IR1846A	R1243	JCN5	R0054	KB-162	R0054	KS0B2B	20217	LM256	Z2537
HW56	Z0432	IR1849A	R1245	JCN6	R0054	KB162N	R0602	KS091A	20219	LM2B2	Z2542
HW56A	Z0432	IR1850A	R1246	JCN7	R0055	KB262	R0602	KS100A	20220	LM2100	Z2545
HW56B	Z0432	IR2160	310	JC-SD-1Z	R0052	KC0.8C22/1A	R0054	KS100B	20220	LM2120	Z2547
HW62	Z0433	IRC5	R1221	JC-V03C	R0054	KC1.3C22/1	R0054	KS120A	20222	LPA1H	R0052
HW62A	Z0433	IRFE100	801	JD-SD1D	R0052	KC2022/1	R0050	KS120B	20222	LPM3.6	Z0402
HW62B	Z0433	IRT R50	642	JEM1	233	KC20P12/1	R0054	KS150A	20225	LPM3.6A	Z0402
HW82	Z0436	IRT R51	S0001	JEM2	233	KC20P22/1	R0054	KS150B	20225	LPM4.7	Z0405
HW82A	Z0436	IRT R52	715	JEM3	233	KC2G	R0054	KS180A	20228	LPM4.7A	Z0405
HWB2B	Z0436	IRT R53	S0001	JEM4</							

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HEP Semiconductor Replacement Cross-References

DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
LPM12A	Z0415	M3A9	R0090	M4Z10	Z0220	M848	625	M4363WHT	639	M4722VIO	624
LPM13	Z0416	M3B1	R0091	M4Z10-20	Z0220	M84C01	244	M4364	639	M4722YEL	624
LPM13A	Z0416	M3B5	R0091	M4Z10A	Z0220	M81	723	M4365	639	M4727	230
LPM15	Z0418	M3B9	R0091	M4Z12	Z0222	M91A	723	M4366	638	M4728	Z0439
LPM15A	Z0418	M3C1	R0092	M4Z12-20	Z0222	M91A01	R0054	M4367	638	M4729	236
LPM27	Z0424	M3C5	R0092	M4Z12A	Z0222	M91A02	R0053	M4398	632	M4730	627
LPM27A	Z0424	M3C9	R0092	M4Z15	Z0225	M91A03	R0054	M4442	708	M4732	730
LPM33	Z0426	M3D1	R0094	M4Z15-20	Z0225	M91A06	R0055	M4450	630	M4733	733
LPM33A	Z0426	M3D5	R0094	M4Z15A	Z0225	M918	724	M4454	638	M4734	728
LPM56	Z0432	M3D9	R0094	M4Z18	Z0228	M918GRN	724	M4456	638	M4735	600
LPM56A	Z0432	M3E1	R0094	M4Z18-20	Z0228	M91C	725	M4457	638	M4736	601
LPM62	Z0433	M3E5	R0094	M4Z18A	Z0228	M91D	726	M4459	235	M4737	53
LPM62A	Z0433	M3E9	R0094	M4Z20	Z0230	M91E	726	M4462	631	M4739	54
LPM82	Z0436	M3F1	R0096	M4Z20-20	Z0230	M91F	726	M4463	230	M4745	708
LPM82A	Z0436	M3F5	R0096	M4Z20A	Z0230	M102	709	M4464	53	M4756	709
LPM110	Z0439	M3F9	R0096	M4Z22	Z0231	M024	709	M4465	53	M4765	53
LPM110A	Z0439	M3G1	R0096	M4Z22-20	Z0231	M100	801	M4466ORN	629	M4768	728
LPZT12	Z0415	M3G5	R0096	M4Z22A	Z0231	M101	801	M4467	R0162	M4771	620
LPZT15	Z0418	M3G9	R0096	M4Z27	Z0234	M102	R0056	M4468BRN	629	M4789	731
LPZT27	Z0424	M3H1	R0097	M4Z27-20	Z0234	M108	254	M4469RED	629	M4790	601
LPZT33	Z0426	M3H5	R0097	M4Z27A	Z0234	M150-1	R0600	M4470ORN	629	M4792	310
LR33H	Z0206	M3H9	R0097	M4Z33	Z0426	M430	736	M4471YEL	629	M4815	715
LR39CH	Z0208	M3K1	R0097	M4Z62	Z0433	M433	730	M4472GRN	629	M4819	712
LR47CH	Z0210	M3K5	R0097	M4Z62A	Z0433	M500	R0054	M4473	629	M4820	720
LR50	R0090	M3K9	R0097	M4Z82	Z0436	M500A	R0054	M4474YEL	629	M4821	729
LR51CH	Z0211	M3M1	R0098	M4Z110	Z0439	M5008	R0054	M4475GRN	629	M4825	732
LR56CH	Z0212	M3M5	R0098	M6HZ	R0054	M500C	R0054	M4476BLU	630	M4826	727
LR62CH	Z0214	M3M9	R0098	M8HZ	R0055	M546	56	M4477VIO	630	M4837	718
LR68CH	Z0215	M3Z7.5	Z2510	M9Z	Z0219	M604	175	M4478	710	M4838	713
LR82CH	Z0217	M3Z7.5A	Z2510	M10Z	Z0220	M612	56	M4484	637	M4839	726
LR91CH	Z0219	M3Z9.1	Z2513	M12	R0052	M613	56	M4485	637	M4840	728
LR100CH	Z0220	M3Z9.1A	Z2513	M12Z	Z0222	M614	56	M4486	637	M4841	728
LR120CH	Z0222	M3Z10	Z2514	M14	R0052	M670	R0050	M4501	638	M4842	728
LR150CH	Z0225	M3Z10A	Z2514	M15Z	Z0225	M670A	R0050	M4509	638	M4843	712
LR180CH	Z0228	M3Z12	Z2516	M18Z	Z0228	M6708	R0050	M4510	630	M4844	53
LR200CH	Z0230	M3Z12A	Z2516	M20Z	Z0230	M670C	R0050	M4521	636	M4845	733
LR203	R0092	M3Z15	Z2519	M22	R0052	M680	R0052	M4545	640	M4850	Z0414
LR403	R0094	M3Z15A	Z2519	M22Z	Z0231	M680A	R0052	M4545BLU	640	M4851	Z0414
LR603	R0096	M3Z18	Z2522	M24A	724	M6808	R0052	M4545WHT	640	M4852	712
LS52	Z30/232	M3Z18A	Z2522	M248	725	M680C	R0052	M4548	636	M4853	712
LS5485	802	M3Z22	Z2525	M25	723	M690	R0052	M4552	Z0417	M4854	725
LTE1016	709	M3Z22A	Z2525	M25A	722	M690A	R0052	M4553BLU	632	M4855	723
LTH1016	709	M3Z27	Z2528	M258	723	M6908	R0052	M4553BRN	631	M4857	718
LZ4.7	Z0210	M3Z27A	Z2528	M27Z	Z0234	M690C	R0052	M4553GRN	632	M4858	Z0426
LZ5.6	Z0212	M3Z33	Z2531	M42	R0053	M700	R0053	M4553ORN	631	M4872	240
LZ6.8	Z0215	M3Z33A	Z2531	M48S1 34779	724	M700A	R0053	M4553RED	631	M4882	704
LZ8.2	Z0217	M3Z56	Z2537	M54	724	M7008	R0053	M4553VIO	233	M4885	240
LZ10	Z0220	M3Z56A	Z2537	M54A	724	M700C	R0053	M4553YEL	632	M4886	600
M1A1	R0090	M3Z82	Z2542	M548	725	M7018	R0054	M4562	629	M4887	601
M1A5	R0090	M3Z82A	Z2542	M548LK	722	M710	R0054	M4563	630	M4888A	232
M1A9	R0090	M3Z100	Z2545	M548LU	726	M710A	R0054	M4564	630	M48888	232
M1B1	R0091	M3Z100A	Z2545	M548RN	722	M710C	R0054	M4565	631	M4998	244
M1B5	R0091	M3Z120	Z2547	M54	725	M720	R0055	M4567	632	M5010	716
M1B9	R0091	M3Z120A	Z2547	M54D	726	M720A	R0055	M4570	230	M5113T	591
M1C1	R0092	M4A1	R0090	M54E	724	M7208	R0055	M4573	633	M5288	232
M1C5	R0092	M4A5	R0090	M54GRN	725	M720C	R0055	M4576	638	M8014	253
M1C9	R0092	M4A9	R0090	M54ORN	724	M730	R0056	M4577	638	M8124	3
M1D1	R0094	M4B1	R0091	M54RED	723	M730A	R0056	M4578	638	M8482	R0700
M1D5	R0094	M4B5	R0091	M54WHT	726	M7308	R0056	M4582BRN	628	M-8513	135
M1D9	R0094	M4B9	R0091	M54YEL	724	M730C	R0056	M4583RED	628	M8513A	135
M1E1	R0094	M4C1	R0092	M62	R0054	M773RED	722	M4584GRN	628	M8513A	135
M1E5	R0094	M4C5	R0092	M65	57	M774ORN	1	M4586	638	M8513R	135
M1E9	R0094	M4C9	R0092	M65A	57	M775BRN	723	M4589	708	M8513R	135
M1F1	R0096	M4D1	R0094	M658	57	M776GRN	725	M4590	708	M8640	254
M1F5	R0096	M4D5	R0094	M65C	57	M7798LU	724	M4594	53	M8640A	254
M1F9	R0096	M4D9	R0094	M65D	57	M780WHT	724	M4595	250	M8640E	R0602
M1G1	R0096	M4E1	R0094	M65E	57	M783RED	723	M4596	632	M9032	53
M1G5	R0096	M4E5	R0094	M65F	57	M784ORN	724	M4597	633	M9307	52
M1G9	R0096	M4E9	R0094	M67	R0050	M785YEL	725	M4597GRN	633	M9344	248
M1H1	R0097	M4F1	R0096	M67A	R0050	M786	722	M4597RED	633	M9348	702
M1H5	R0097	M4F5	R0096	M678	R0050	M7878LU	723	M4603	638	M9359	248
M1H9	R0097	M4F9	R0096	M67C	R0050	M791	721	M4604	638	M9408	707
M1K1	R0097	M4G1	R0096	M68	R0052	M818WHT	724	M4605	639	M9440	53
M1K5	R0097	M4G5	R0096	M68A	R0052	M822	726	M4605RED	639	M9443	715
M1K9	R0097	M4G9	R0096	M68C	R0052	M822A	730	M4606	236	M9459	51
M1M1	R0098	M4H1	R0097	M688	R0052	M822A8LU	730	M4607	632	M9481	56
M1M5	R0098	M4H5	R0097	M69	R0052	M8228	730	M4608	628	M9482	718
M1M9	R0098	M4H9	R0097	M69A	R0052	M823WHT	730	M4619RED	628	M9484	705
M2A1	R0090	M4HZ	R0053	M698	R0052	M8238	730	M4620GRN	628	M9491	53
M2A5	R0090	M4K1	R0097	M69C	R0052	M824	S0004	M4621	639	M9514	717
M2A9	R0090	M4K5	R0097	M70	R0053	M8278RN	723	M4622	231	M9531	716
M2B1	R0091	M4K9	R0097	M70A	R0053	M828GRN	724	M4623	234	M9532	724
M2B5	R0091	M4M1	R0098	M708	R0053	M829A	57	M4624	53	M9539	725
M2B9	R0091	M4M5	R0098	M70C	R0053	M8298	57	M4627	632	M9540	240
M2C1	R0092	M4M9	R0098	M71	R0054	M829C	57	M4630	53	M9556	701
M2C5	R0092	M4Z3.3	Z0206	M71A	R0054	M829D	57	M4632	639	M9570	724
M2C9	R0092	M4Z3.3A	Z0206	M718	R0054	M829E	57	M4640	236	M9571	715
M2D1	R0094	M4Z3.9	Z0208	M71C	R0054	M829F	57	M4640P	236	M9582	701
M2D5	R0094	M4Z3.9A	Z0208	M72	R0055	M833	716	M4648	712	M13298	704
M2D9	R0094	M4Z4.7	Z0210	M72A	R0055	M836	724	M4649	630	M109474	R9001
M2E1	R0094	M4Z4.7-20	Z0210	M728	R0055	M844	53	M4652	234	MA1	3
M2E5	R0094	M4Z4.7A	Z0210	M72C	R0055	M844-84C01	S5000	M4653	736	MA5	R0130
M2E9	R0094	M4Z5.1	Z0211	M72D	R0055	M844-8503	736	M4549	Z0412	MA10	R0131
M2F1	R0096	M4Z5.1-20	Z0211	M73	R0056	M8478LK	725	M4663	Z0426	MA20	R0132
M2F5	R0096	M4Z5.1A	Z0211	M73A	R0056	M912	244	M4697	2	MA23	641
M2F9	R0096	M4Z5.6	Z0212	M73C	R0056	M936	S5001	M4699	Z0436	MA238	254
M2G1	R0096	M4Z5.6-20	Z0212	M738	R0056	M1400-1	54	M4700	641	MA26	R0602
M2G5	R0096	M4Z5.6A	Z0212	M738	637	M1400-9	50	M4701	704	MA26A	R0602
M2G9	R0096	M4Z6.2	Z0214	M77	637	M2009	C6016	M4702	236	MA30	R0134
M2H1	R0097	M4Z6.2-20	Z0214	M78	3	M2028	C6002	M4704	Z0436	MA40	R0134
M2H5	R0097	M4Z6.2A	Z0214	M78A	637	M3519	737	M4705	53	MA50	R0136
M2H9	R0097	M4Z6.8	Z0215	M788	637	M3567-2	245	M4709	56	MA60	R0136
M2K1	R0097	M4Z6.8-20	Z0215	M788LK	637	M4225	F0021	M4712	601	MA70	R0137
M2K5	R0097	M4Z6.8A	Z0215	M78C	637	M4313	630	M4714	53	MA90	135
M2K9	R0097	M4Z8.2	Z0217	M78D	637	M4315	632	M4715	704	MA100	R0138
M2M1	R0098	M4Z8.2-20	Z0217	M78GRN	637	M4331	625	M4722	232	MA112	253
M2M5	R0098	M4Z8.2A	Z0217	M78RED	637	M4363	639	M4722BLU	624	MA113	254
M2M9	R0098	M4Z9.1	Z0219	M78YEL	637	M43638LU	639	M4722GRN	624	MA114	254
M3A1	R0090	M4Z9.1-20	Z0219	M82	R0055	M4363GRN	639	M4722ORN	623	MA115	253
M3A5	R0090	M4Z9.1A	Z0219	M84	230	M4363ORN	639	M4722RED	623	MA116	254

HEP Semiconductor Replacement Cross-References

DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
MA117	254	MC353G	553	MC4016P	C3804P	MCR2604-5	621	MEZ5 6T10	Z0407	MJ480	247
MA203 (rectifier)	R0053	MC354G	554	MC4024P	C3805P	MCR2604-6	621	MEZ12T15	Z0415	MJ481	247
MA215	R0053	MC356G	556	MC4039P	C3802P	MCR2614L-4	621	MEZ12T10	Z0415	MJ490	248
MA232	R0162	MC358G	558	MC4044P	C3806P	MCR2614L-5	621	MEZ15T15	Z0418	MJ491	248
MA240	R0222R	MC661P	C0905P	MC5321	R0602	MCR2614L-6	621	MEZ15T10	Z0418	MJ802	S7000
MA242	R0052	MC662P	C0900P	MC6007	Z0212	MCR3918-1	R1300	MEZ27T15	Z0424	MJ900	S9141
MA286	253	MC663P	C0901P	MC6007A	Z0212	MCR3918-2	R1301	MEZ27T10	Z0424	MJ1000	S9140
MA287	253	MC664P	C0906P	MC6008	Z0214	MCR3918-3	R1302	MF3304	52	MJ1800	740
MA288	254	MC665P	C0910P	MC6010	Z0215	MCR3918-4	R1304	MFC4000	C6003	MJ2249	241
MA393	639	MC667P	C0911P	MC6010A	Z0215	MCR3918-5	R1306	MFC4000A	C6003	MJ2250	241
MA393A	639	MC668P	C0902P	MC6012	Z0217	MCR3918-6	R1307	MFC4010	C6010	MJ2251	240
MA393B	639	MC669P	C0903P	MC6012A	Z0217	MCR3935-1	R1300	MFC4010A	C6010	MJ2252	240
MA393C	639	MC670P	C0904P	MC6013	Z0219	MCR3935-2	R1301	MFC4040	C6007	MJ2253	702
MA393E	639	MC672P	C0909P	MC6013A	Z0219	MCR3935-3	R1302	MFC4050	C6013	MJ2254	702
MA393G	639	MC673P	C0912P	MC6014	Z0220	MCR3935-4	R1304	MFC4052	C6013	MJ2267	248
MA393R	639	MC681P	C0908P	MC6014A	Z0220	MCR3935-5	R1306	MFC4060	C6014	MJ2268	248
MA815	254	MC682P	C0907P	MC6016	Z0222	MCR3935-6	R1307	MFC4060A	C6014	MJ2801	247
MA881	629	MC693P	C0912P	MC6016A	Z0222	MCT492P	C3801P	MFC6010	C6001	MJ2802	247
MA882	629	MC710G	580	MC6018	Z0225	MCV	R0050	MFC6020	C6011	MJ2840	247
MA883	630	MC711G	581	MC6018A	Z0225	MD34	134	MFC6030	C6012	MJ2841	247
MA884	630	MC714G	584	MC6020	Z0228	MD60	135	MFC6030A	C6012	MJ2901	248
MA885	629	MC717P	C2502P	MC6020A	Z0228	MD 60	135	MF C6040	C6009	MJ2940	248
MA886	629	MC724P	570	MC6021	Z0230	MD60A	135	MFC6050	C6015	MJ2941	S5005
MA887	629	MC770P	C2501P	MC6021A	Z0230	MD 60A	135	MF C6070	C6008	MJ3010	707
MA888	630	MC781G	582	MC6022	Z0231	MD 134	R0054	MFC8010	C6004	MJ3026	740
MA889	630	MC782G	583	MC6022A	Z0231	MD420	3	MF C8021	C6016	MJ3027	740
MA890	253	MC785P	C2001P	MC6024	Z0234	MD501	3	MF C8021A	C6016	MJ3028	740
MA891	254	MC786P	C2500P	MC6024A	Z0234	MC501B	3	MF C8030	C6017	MJ3029	707
MA892	254	MC787P	C2503P	MC6026	Z0426	MD752	Z0407	MF C8040	C6002	MJ3030	740
MA893	254	MC789P	573	MC6026A	Z0426	MD752A	Z0407	MFC9000	C6006	MJ3101	241
MA894	253	MC790P	572	MC6107	Z0407	MD753	Z0408	MFC9010	C6005	MJ3201	240
MA895	253	MC791P	572	MC6107A	Z0407	MD753A	Z0408	MFC3002	F2005	MJ3202	240
MA896	254	MC799P	C2002P	MC6108	Z0408	MD757	Z0412	MFE3004	F2005	MJ3430	707
MA897	254	MC810G	581	MC6108A	Z0408	MD757A	Z0412	MFE4001	803	MJ3701	702
MA898	253	MC811G	581	MC6116	Z0415	MD759	Z0415	MFE4008	803	MJ3771	S7000
MA899	253	MC814G	584	MC6116A	Z0415	MD759A	Z0415	MFE4009	803	MJ3772	S7000
MA900	254	MC817P	570	MC6118	Z0418	MDA920-1	175	MFE4010	803	MJ4000	S9140
MA901	253	MC824P	570	MC6118A	Z0418	MDA920-2	175	MFE4011	803	MJ4001	S9141
MA902	253	MC830P	C1030P	MC6124	Z0424	MDA920-3	176	MGLA399	Z0208	MJ4101	703
MA903	253	MC832P	C1032P	MC6124A	Z0424	MDA920-4	176	MGLA39A	Z0208	MJ4102	703
MA904	254	MC833P	C1033P	MC6126	Z0426	MDA920-5	177	MGLA39B	Z0208	MJ4502	S7001
MA909	253	MC835P	C1035P	MC6126A	Z0426	MDA920-6	177	MGLA47	Z0210	MJ5200	240
MA910	253	MC836P	C1036P	MC7400P	C3000P	MDA920-7	178	MGLA47A	Z0210	MJ5203	240
MA1700	630	MC838P	C1038P	MC7401P	C3001P	MDA922-1	R0841	MGLA47B	Z0210	MJ5204	240
MA1702	634	MC839P	C1039P	MC7402P	C3002P	MDA922-2	R0841	MGLA51	Z0211	MJ8100	S3003
MA1703	633	MC844P	C1044P	MC7404P	C3004P	MDA922-3	R0842	MGLA51A	Z0211	MJ8101	S3003
MA1704	634	MC845P	C1045P	MC7410P	C3010P	MDA922-4	R0843	MGLA51B	Z0211	MJE101	S5009
MA1705	633	MC846P	C1046P	MC7420P	C3020P	MDA922-5	R0845	MGLA56	Z0212	MJE105	S5008
MA1706	633	MC852P	C1052P	MC7430P	C3030P	MDA922-6	R0845	MGLA56A	Z0212	MJE170	700
MA1707	634	MC853P	C1053P	MC7440P	C3040P	MDA922-7	R0846	MGLA56B	Z0212	MJE171	S5007
MA1708	633	MC857P	C1057P	MC7441AP	C3041P	MDA980-1	R0875	MGLA62	Z0214	MJE172	S5006
MA4670	232	MC858P	C1058P	MC7450P	C3050P	MDA980-2	R0876	MGLA62A	Z0214	MJE180	701
MAC1-4	620	MC862P	C1062P	MC7473P	C3073P	MDA980-3	R0877	MGLA62B	Z0214	MJE181	S5003
MAC1-6	620	MC876P	572	MC7475P	C3075P	MDA980-4	R0878	MGLA68	Z0215	MJE182	S5000
MAC2-2	R1241	MC881G	582	MC7490P	C3800P	MDA980-5	R0878	MGLA68A	Z0215	MJE200	701
MAC2-4	R1243	MC882G	583	MC7492P	C3801P	MDA980-6	R0879	MGLA68B	Z0215	MJE205	S5001
MAC2-6	R1245	MC885P	C2001P	MC8601P	C3803P	MDA990-1	R0880	MGLA82	Z0217	MJE210	700
MAC3-4	621	MC889P	573	MCR101	R1001	MDA990-2	R0881	MGLA82A	Z0217	MJE240	S5000
MAC3-6	621	MC890P	572	MCR102	R1001	MDA990-3	R0882	MGLA82B	Z0217	MJE241	S5000
MAC5-2	R1750	MC891P	572	MCR103	R1002	MDA990-4	R0883	MGLA91	Z0219	MJE242	S5000
MAC5-4	R1751	MC899P	C2002P	MCR104	R1003	MDA990-5	R0883	MGLA91A	Z0219	MJE250	S5006
MAC5-6	R1752	MC910G	580	MCR106-1	R1215	MDA990-6	R0884	MGLA91B	Z0219	MJE251	S5006
MAC11-2	R1721	MC911G	581	MCF106-2	R1216	MDP173	R0602	MGLA100	Z0220	MJE252	S5006
MAC11-3	R1722	MC914G	584	MCR106-3	R1217	MDS31	3	MGLA100A	Z0220	MJE340	244
MAC11-4	R1723	MC981G	582	MCR106-4	R1218	MDS32	3	MGLA100B	Z0220	MJE341	244
MAC11-6	R1725	MC982G	583	MCR107-1	R1220	MDS33	3	MH67	R0050	MJE344	244
MAC36-2	R1781	MC1013P	C3400P	MCR107-2	R1221	MDS33A	3	MH68	R0052	MJE370	700
MAC36-3	R1782	MC1027P	C3401P	MCR107-3	R1221	MDS33C	3	MH69	R0092	MJE371	246
MAC36-4	R1783	MC1302G	592	MCR107-4	R1221	MDS33D	3	MH70	R0053	MJE423	707
MAC36-6	R1785	MC1303L	C6055L	MCR107-5	R1222	MDS34	3	MH71	R0054	MJE520	245
MAN3A	P2501	MC1304P	594	MCR107-6	R1222	MDS35	639	MH72	R0055	MJE521	245
MAS20	639	MC1304PQ	C6074P	MCR107-7	R1223	MDS36	3	MH500	R0054	MJE700	S9121
MAS21	639	MC1305P	595	MCR107-8	R1223	MDS37	3	MH670	R0050	MJE701	S9121
MAS22	639	MC1307P	C6056P	MCR115	R1004	MDS38	3	MH680	R0052	MJE710	700
MAS23	639	MC1307PQ	C6068P	MCR120	R1005	MDS39	3	MH690	R0092	MJE711	246
MB228	R0091	MC1314G	591	MCR406-1	R1215	MDS40	3	MH700	R0053	MJE712	S5006
MB229	R0092	MC1316P	C6073P	MCR406-2	R1216	ME60	P2002	MH710	R0054	MJE720	701
MB230	R0094	MC1326P	C6072P	MCR406-3	R1217	ME102	P2001	MH720	R0055	MJE721	245
MB231	R0094	MC1328G	C6067G	MCR406-4	R1218	ME112	P2001	MH730	R0056	MJE722	S5000
MB232	R0096	MC1328P	C6057P	MCR407-1	R1220	ME213	57	MH745	456	MJE800	S9101
MB233	R0096	MC1330P	C6079P	MCR407-2	R1221	ME213A	52	MH746	457	MJE801	S9101
MB234	R0097	MC1339P	C6080P	MCR407-3	R1221	ME216	52	MHT180	231/233	MJE1090	S9122
MB235	R0098	MC1345P	C6081P	MCR407-4	R1221	ME217	52	MHT181	231/233	MJE1100	S9102
MB236	R0091	MC1350P	C6059P	MCR846-1	R1241	ME900	52	MHT230	231/233	MJE2010	S5002
MB237	R0092	MC1351P	C6060P	MCR846-2	R1241	ME900A	52	MHT1802	233	MJE2011	S5002
MB238	R0094	MC1352P	C6076P	MCR846-3	R1242	ME901	57	MHT1803	233	MJE2020	S5001
MB239	R0094	MC1355P	C6061P	MCR846-4	R1243	ME901A	57	MHT1804	233	MJE2021	S5001
MB240	R0096	MC1357P	C6062P	MCR1308-1	R1300	ME0404	716	MHT1807	233	MJE2370	S5008
MB241	R0096	MC1357PQ	C6082P	MCR1308-2	R1301	ME0404-1	52	MHT1810	G6002	MJE2371	S5002
MB242	R0097	MC1358P	C6063P	MCR1308-3	R1302	ME0404-2	57	MHT2002	641	MJE2480	S5001
MB243	R0098	MC1358PQ	C6083P	MCR1308-4	R1304	ME1001	50	MHT2003	641	MJE2481	S5001
MB244	R0052	MC1364G	C6069G	MCR1308-5	R1306	ME1002	50	MHT2004	641	MJE2482	S5001
MB257	R0052	MC1370P	C6070P	MCR1308-6	R1307	ME2001	50	MHT2008	641	MJE2483	S5001
MB258	R0052	MC1371P	C6071P	MCR1906-1	R1101	ME2002	50	MHT2009	641	MJE2490	S5002
MB269	R0050	MC1380P	C6064P	MCR1906-2	R1101	ME3001	56	MHT2010	641	MJE2491	S5002
MB270	R0052	MC1398P	C6075P	MCR1906-3	R1102	ME3002	56	MHT4483	243	MJE2520	S5001
MB376	R0094	MC1437L	C6051L	MCR1906-4	R1103	ME4001	50	MHT7401	243	MJE2521	S5001
MBD101	R0700	MC1439G	C6053G	MCR2304-6	620	ME4002	55	MHT7411	243	MJE2522	S5001
MBS4991	R2001	MC1439L	C6053L	MCR2305-2	R1241	ME4003	55	MHT7414	243	MJE2523	S5001
MC30	R0090	MC1454G	593	MCR2305-3	R1242	ME5001	56	MHT7417	243	MJE2801	S5004
MC010	R0052	MC1463G	C6054G	MCR2305-4	R1243	ME6001	50	MJ400	240	MJE2901	S5005
MC015	R0052	MC1463R	C6054R	MCR2305-5	R1244	ME6002	50	MJ410	707	MJE2955	S5002
MC025	R0053	MC1469G	C6049G	MCR2305-6	R1245	ME6003	50	MJ411	707	MJE3054	S5004
MC035	R0053	MC1469R	C6049R	MCR2315-1	R1241	ME8201	56	M			

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DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
MJE4922	245	MN194	628	MPS6539	56	MR200C-H	Z0230	MST7502	50	MZ500-10	Z0212
MJE4923	245	MP100	R0052	MPS6540	56	MR201	R0052	MT5	R0160	MZ500-11	Z0214
MJE5190	S5003	MP110	232	MPS6541	720	MR322	R0220	MT10	R0052	MZ500-12	Z0215
MJE5191	S5003	MP225	R0052	MPS6542	56	MR324	R0222	MT14	R0162	MZ500-14	Z0217
MJE5192	S5000	MP300	R0053	MPS6543	56	MR301	R0053	MT20	R0052	MZ500-15	Z0219
MJE5193	S5007	MP400	R0053	MPS6544	734	MR601	R0054	MT24	R0052	MZ500-16	Z0220
MJE5194	S5007	MP500	G6002	MPS6545	734	MR750	R0100	MT30	R0134	MZ500-17	Z0214
MJE5195	S5006	MP504	G6002	MPS6546	56	MR751	R0101	MT40	R0134	MZ500-18	Z0222
MJE5655	244	MP600	G6001	MPS6547	56	MR752	R0102	MT44	R0053	MZ500-20	Z0225
MJE5656	244	MP601	G6001	MPS6548	56	MR754	R0104	MT50	R0136	MZ500-22	Z0228
MJE5974	S5002	MP602	G6001	MPS6552	54	MR756	R0106	MT60	R0136	MZ500-23	Z0230
MJE5975	S5005	MP603	G6001	MPS6553	54	MR801	R0055	MT64	R0054	MZ500-24	Z0231
MJE5976	S5005	MP1509-1	232	MPS6554	54	MR990	R0056	MT80	R0137	MZ500-26	Z0234
MJE5977	S5001	MP1509-2	232	MPS6555	54	MR1001	R0056	MT84	R0055	MZ500-28	Z0426
MJE5978	S5004	MP1509-3	232	MPS6560	S0002	MR1030A	R0090	MT021	R0050	MZ500-35	Z0433
MJE5979	S5004	MP1552	625	MPS6561	S0002	MR1030B	R0080	MT021A	R0050	MZ500-38	Z0436
MJE5980	S5002	MP1612	236	MPS6562	716	MR1031A	R0091	MT022	R0052	MZ605	Z0214
MJE5981	S5005	MP1613	625	MPS6563	716	MR1031B	R0081	MT022A	R0052	MZ610	Z0214
MJE5982	S5005	MP2060	230/232	MPS6565	736	MR1032A	R0092	MT100	R0138	MZ620	Z0214
MJE5983	S5001	MP2061	232	MPS6566	735	MR1032B	R0082	MT101	56	MZ640	Z0214
MJE5984	S5004	MP2062	232	MPS6567	729	MR1033A	R0094	MT102	56	MZ707	Z2510
MJE5985	S5004	MP2076	232	MPS6568	56	MR1033B	R0084	MT1060	56	MZ709	Z2513
MK 10	802	MP2200A	236	MPS6568A	56	MR134A	R0094	MT102351A	637	MZ710	Z2514
MK-10-2	802	MP2300A	236	MPS6569	736	MR1034B	R0084	MTZ607	2012	MZ712	Z2516
MK-15	450	MP3730	234	MPS6570	730	MR1035A	R0096	MTZ607A	2012	MZ715	Z2519
MK-25	452	MP3731	235	MPS6571	730	MR1035B	R0086	MTZ608	2014	MZ718	Z2522
MK-30	455	MPF102	802	MPS6573	54	MR1036A	R0096	MTZ608A	2014	MZ722	Z2525
MLED50	P2001	MPF103	801	MPS6574	54	MR1036B	R0086	MTZ610	2015	MZ727	Z2528
MLED55	P2004	MPF104	801	MPS6575	54	MR1038A	R0097	MTZ610A	2015	MZ733	Z2531
MLED600	P2000	MPF105	801	MPS6576	54	MR1040A	R0098	MTZ612	2017	MZ756	Z2537
MLED900	P2002	MPF106	802	MPS9616J	243	MR1120	R0130	MTZ612A	2017	MZ782	Z2542
MM0	R0050	MPF107	802	MPS-A05	736	MR1121	R0131	MTZ613	2019	MZ807	Z2510
MM2	R0052	MPF109	F0021	MPS-A09	728	MR1122	R0132	MTZ613A	2019	MZ809	Z2513
MM3	R0053	MPF121	F2007	MPS-A10	728	MR1123	R0134	MTZ614	2020	MZ810	Z2514
MM4	R0053	MPF151	803	MPS-A12	S9100	MR1124	R0134	MTZ614A	2020	MZ812	Z2516
MM5	R0054	MPF161	F1035	MPS-A13	S9100	MR1125	R0136	MTZ616	2022	MZ815	Z2519
MM6	R0054	MPS404	739	MPS-A14	S9100	MR1126	R0136	MTZ616A	2022	MZ818	Z2522
MM7	R0055	MPS404A	739	MPS-A16	738	MR1128	R0137	MTZ618	2022	MZ822	Z2525
MM8	R0055	MPS706	727	MPS-A17	738	MR1130	R0138	MTZ618A	2022	MZ827	Z2528
MM9	R0056	MPS706A	727	MPS-A18	737	MR1137-1	R0050	MTZ620	2022	MZ833	Z2531
MM10	R0056	MPS834	S0004	MPS-A20	728	MR1137-2	R0052	MTZ620A	2022	MZ856	Z2537
MM709	56	MPS918	720	MPS-A43	S0005	MR1137-3	R0052	MTZ613	2030	MZ882	Z2542
MM1105	G6002	MPS2369	S0004	MPS-A55	708	MR1137-4	R0053	MTZ621A	2030	MZ907	Z2510
MM1139	3	MPS2711	722	MPS-A65	S9120	MR1137-5	R0053	MTZ622	2031	MZ909	Z2513
MM1361	51	MPS2712	723	MPS-A66	S9120	MR2064	R0052	MTZ622A	2031	MZ910	Z2514
MM1387	720	MPS2713	S0004-722	MPS-A70	715	MR2065	R0052	MTZ624	2034	MZ912	Z2516
MM1601	S3005	MPS2714	724	MPS-H02	56	MR2069	R0090	MTZ624A	2034	MZ915	Z2519
MM1602	S3006	MPS2715	722	MPS-H07	S0004	MR2070	R0091	MU739	706	MZ918	Z2522
MM1603	S3007	MPS2716	723	MPS-H08	S0004	MR2071	R0092	MUS4987	R2021	MZ922	Z2525
MM1612	S3001	MPS2923	724	MPS-H10	56	MR2072	R0094	MV-1	R0602	MZ927	Z2528
MM1742	253	MPS2924	725	MPS-H11	56	MR2073	R0094	MV3	R0054	MZ933	Z2531
MM1755	50	MPS2925	726	MPS-H19	56	MR2074	R0096	MV-3	R0600	MZ956	Z2537
MM1757	50	MPS2926	724	MPS-H20	56	MR2075	R0096	MV-13	R0600	MZ982	Z2542
MM1809	53	MPS2926BRN	722	MPS-H24	56	MR2261	R0220	MV50	P2003	MZ1000	Z2508
MM1941	56	MPS2926GRN	725	MPS-H30	56	MR2261R	R0220R	MV55	P2004	MZ1000-5	Z2504
MM2258	714	MPS2926ORN	724	MPS-H31	734	MR2262	R0220	MV2101	R2500	MZ1000-7	Z2506
MM2259	714	MPS2926RED	723	MPS-H32	734	MR2262R	R0220R	MV2103	R2501	MZ1000-10	Z2510
MM2260	714	MPS2926VEL	724	MPS-H37	734	MR2263	R0220	MV2105	R2502	MZ1000-12	Z2513
MM2503	3	MPS3392	725	MPS-H83	720	MR2263R	R0220R	MV2109	R2503	MZ1000-13	Z2514
MM2550	3	MPS3393	724	MPS-L01	S0001	MR2264	R0220	MV2112	R2504	MZ1000-15	Z2516
MM2552	3	MPS3394	723	MPS-L07	720	MR2264R	R0220R	MV2115	R2505	MZ1000-17	Z2519
MM2554	3	MPS3395	725	MPS-L08	720	MR2265	R0220	MV9602	R2502	MZ1000-19	Z2522
MM3000	71	MPS3396	726	MPS-L51	S0001	MR2265R	R0220R	MV-A.05A	R9001	MZ1000-21	Z2525
MM3002	712	MPS3397	728	MPS-U01	S3023	MR2266	R0055	MZ5A	2012	MZ1000-23	Z2528
MM3005	243	MPS3398	728	MPS-U01A	S3023	MR2272	R0053	MZ5.1T5	20405	MZ1000-25	Z2531
MM3014	714	MPS3563	720	MPS-U02	S3020	MR2273	R0052	MZ6A	2015	MZ1000-31	Z2537
MM3053	S3011	MPS3568	736	MPS-U03	714	MR2279	R0090	MZ6.2	20408	MZ1000-37	Z2545
MM3100	713	MPS3638	716	MPS-U04	714	MRD148	P1001	MZ6.2A	20408	MZ1005	Z0211
MM3101	712	MPS3638A	716	MPS-U05	S3020	MRD150	P0002	MZ6.2B	20408	MZ1010	Z0220
MM3905	52	MPS3640	722	MPS-U06	714	MRD450	312	MZ6.2T5	20408	MZ1012	Z0222
MM3906	52	MPS3642	736	MPS-U07	714	MRD3056	P0001	MZ8A	20217	MZ1014	Z0417
MM4005	S3001	MPS3646	53	MPS-U10	S3021	MRFB004	S3001	MZ10A	20220	MZ1018	Z0228
MM4006	714	MPS3693	738	MPS-U51	S3027	M55	R0130	MZ12	20415	MZ1020	Z0230
MM4007	714	MPS3694	738	MPS-U51A	S3027	M510	R0162	MZ12A	20222	MZ1022	Z0231
MM4008	708	MPS3702	715	MPS-U52	S3031	M5.15	501	MZ128	20415	MZ4620	Z0206
MM5000	637	MPS3703	716	MPS-U55	S3031	M520	R0132	MZ15A	20225	MZ4622	Z0208
MM5001	637	MPS3704	721	MPS-U56	S3031	M530	R0134	MZ15T20	20418	MZ4624	Z0210
MM5002	637	MPS3705	721	MPS-U57	S3031	M540	R0134	MZ18A	20228	MZ4625	Z0211
MM5005	242	MPS3706	721	MPT28	311	M550	R0136	MZ22A	20231	MZ4626	Z0212
MM7087	713	MPS3707	728	MPU131	S9001	M560	R0136	MZ27A	20234	MZ4627	Z0214
MM7088	713	MPS3708	729	MR5	R0130	M580	R0137	MZ33A	20426	MZ5110	Z2545
MM8003	S3005	MPS3709	729	MR10	R0131	M5100	R0138	MZ82A	20436	MZ5112	Z2547
MM8004	S3001	MPS3710	729	MR20	R0132	M51500	R2502	MZ92-3.3A	20206	MZ5210	Z2545
MN13-8	250	MPS3711	728	MR30	R0134	M57500	R2502	MZ92-3.9A	20208	MZ5212	Z2547
MN22	230	MPS3721	726	MR33C-H	Z0206	M57501S	55	MZ92-4.7A	20210	MZ5310	Z2545
MN23	230	MPS3826	50	MR36H	Z0402	M57501T	55	MZ92-5.1A	20211	MZ5312	Z2547
MN24	232	MPS3827	50	MR39C-H	Z0208	M57502R	50	MZ92-5.6A	20212	MZ5707	Z2510
MN25	232	MPS5172	726	MR40	R0134	M57502S	50	MZ92-6.2A	20214	MZ5709	Z2513
MN26	232	MPS6507	720	MR47C-H	Z0210	M57502T	50	MZ92-6.8A	20215	MZ5710	Z2514
MN29	628	MPS6511	720	MR50	R0136	M57503R	54	MZ92-8.2A	20217	MZ5712	Z2516
MN298LK	623	MPS6512	729	MR50 (Semtron)	R0050	M57504	243	MZ92-9.1A	20219	MZ5715	Z2519
MN29GRN	628	MPS6513	728	MR51C-H	Z0211	M57505J	242	MZ92-10A	20220	MZ5718	Z2522
MN29PUR	624	MPS6514	728	MR51E-H	Z0211	M57506G	243	MZ92-12A	20222	MZ5722	Z2525
MN29WHT	623	MPS6515	728	MR56C-H	Z0212	M57506H	243	MZ92-15A	20225	MZ5727	Z2528
MN32	232	MPS6516	715	MR60	R0136	M57507T	243	MZ92-18A	20228	MZ5733	Z2531
MN46	230	MPS6517	715	MR62C-H	Z0214	M57508T	242	MZ92-20A	20230	MZ5756	Z2537
MN48	232	MPS6518	57	MR62E-H	Z0214	MSD6102	R9001	MZ92-22A	20231	MZ5807	Z2510
MN52	630	MPS6519	57	MR62H	Z0408	MSD6150	R9002	MZ92-27A	20234	MZ5809	Z2513
MN53	254	MPS6520	728	MR68C-H	Z0215	MSD7000	R9003	MZ110	22545	MZ5810	Z2514
MN538LU	633	MPS6521	55	MR80	R0137	MSG7506	243	MZ112	22547	MZ5812	Z2516
MN53GRN	630	MPS6522	57	MR82C-H	Z0217	MSJ7505	MZ207	MZ5815	20409	MZ5815	Z2519
MN53RED	630	MPS6523	57	MR91C-H	Z0219	MSK5405	243	MZ210	22545	MZ5818	Z2522
MN60	632	MPS6528	734	MR91E-H	Z0219	MSR500	R0054	MZ212	22547	MZ5822	Z2525
MN61	625	MPS6529	734	MR100	R0138	MSR7502	50	MZ310	22545	MZ5827	Z2528
MN63	625	MPS6530	736	MR100C-H	Z0220	MSR7503	54	MZ312	22547	MZ5833	Z2531
MN64	625	MPS6531	736								

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DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
MZ5915	Z2519	NKT123	254	NP50A	R0054	OAZ228	Z3512	OC307	253	P1F	235
MZ5918	Z2522	NKT124	2	NP60A	R0054	OAZ230	Z3514	OC307-1	253	P1G	232
MZ5922	Z2525	NKT125	2	NPC0010	R0050	OAZ232	Z3516	OC307-2	254	P1H	52
MZ5927	Z2528	NKT126	254	NPC0050	R0050	OAZ234	Z3518	OC307-3	254	P1J	716
MZ5933	Z2531	NKT127	2	NPC0100	R0052	OAZ236	Z3520	OC308	253	P1KBLK	628
MZ5956	Z2537	NKT128	2	NPS6518	246	OAZ240	Z0210	OC309	253	P1KBLU	624
MZX9.1	Z0412	NKT131	2	NR5	641	OAZ241	Z0211	OC309-1	253	P1KBRN	628
NO20	639	NKT132	253	NR10	641	OAZ242	Z0212	OC309-2	253	P1KGRN	624
N0.20	639	NKT133	253	NR700	641	OAZ243	Z0214	OC309-3	254	P1KORN	623
NS0708	C6070P	NKT141	253	NR7916	802	OAZ244	Z0215	OC318	254	P1KRED	623
NS071A	C6071P	NKT142	253	NS404	51	OAZ246	Z0217	OC320	638	P1KYEL	624
NS072A	C6057P	NKT143	253	NS475	50	OAZ247	Z0219	OC330	254	P1L	251
NS111	C6062P	NKT144	253	NS476	50	OAZ269	Z0211	OC331	3	P1M	710
NS596K	C6050G	NKT151	254	NS477	55	OAZ270	Z0214	OC340	254	P1N	716
NS741V	C6052P	NKT152	254	NS478	50	OAZ272	Z0219	OC341	3	P1N-1	716
N7400A	C3000P	NKT153/25	254	NS479	50	OAZ273	Z0222	OC342	3	P1N-2	716
N7401A	C3001P	NKT154/25	254	NS480	55	OAZ290	Z3505	OC343	3	P1N-3	716
N7402A	C3002P	NKT162	254	NS661	51	OAZ291	Z3507	OC350	254	P1P	717
N7410A	C3010P	NKT163	254	NS662	51	OAZ292	Z3511	OC351	3	P1P-1	717
N7420A	C3020P	NKT163/25	254	NS663	51	OC16	Z30/232	OC360	254	P1R	230
N7430A	C3030P	NKT164	254	NS664	51	OC20	644	OC361	3	P1T	625
N7440A	C3040P	NKT164/25	254	NS665	52	OC22	Z30/232	OC362	3	P1V	700
N7441A	C3041P	NKT202	254	NS666	52	OC23	Z30/232	OC363	3	P1V-2	700
N7450A	C3050P	NKT203	254	NS667	52	OC24	Z30/232	OC364	254	P1V-3	700
N7473A	C3073P	NKT204	253	NS668	52	OC25	Z30/232	OC390	3	P1V-4	700
N74758	C3075P	NKT205	253	NS731	50	OC26	Z30/232	OC400	635	P1W	716
N8808A	C3030P	NKT206	254	NS731A	50	OC27	Z30/232	OC410	2	P1Y	235
N8840A	C3050P	NKT207	254	NS732	52	OC28	Z30/232	OC430	52	P2A	57
N8881A	C3001P	NKT208	254	NS732A	52	OC29	Z30/232	OC430K	52	P2A5	R0050
NA1	R0160	NKT211	254	NS733	50	OC30	642	OC440	52	P28	253
NA11	R0162	NKT212	254	NS733A	50	OC30A	642	OC440K	52	P285	R0050
NA12	R0162	NKT213	254	NS734	50	OC32	631	OC443	52	P2C	230
NA13	R0052	NKT214	254	NS734A	50	OC33	638	OC443K	52	P2C5	R0052
NA20	641	NKT215	253	NS1000	51	OC34	254	OC445	52	P2D5	R0052
NA21	R0162	NKT216	254	NS1001	51	OC35	Z30/232	OC445K	52	P2D8LU	624
NA30	641	NKT217	254	NS1500	50	OC36	Z30/232	OC449	51	P2DBRN	623
NA603	R0160	NKT218	254	NS1510	50	OC38	254	OC449K	52	P2DGRN	624
NA615	R0162	NKT221	253	NS1672	52	OC40	635	OC450	51	P2DORN	623
NA0305	R0160	NKT222	254	NS1673	52	OC41	253	OC460	51	P2DRED	623
NA0505	R0160	NKT222S1	253	NS1674	52	OC41N	638	OC460K	52	P2DYEL	624
NA1005	R0162	NKT222S2	253	NS1675	52	OC42	640	OC463	52	P2E	715
NA1022-1001	639	NKT223	254	NS1861	51	OC42N	638	OC463K	52	P2F	238
NA1022-1007	250	NKT224	253	NS1862	51	OC43	640	OC465	52	P2G	715
NA-1114-1001	637	NKT225	253	NS1863	52	OC43N	638	OC465K	52	P2H	716
NA-1114-1002	639	NKT226	254	NS1864	52	OC44	640	OC466	52	P2J	S7001
NA-1114-1004	253	NKT227	254	NS1972	50	OC44N	639	OC466K	52	P2K	S5006
NA-1114-1005	250	NKT228	253	NS1973	50	OC45	640	OC467	52	P2L	715
NA-1114-1006	250	NKT231	254	NS1974	50	OC45N	639	OC467K	52	P2M-1	52
NA-1114-1007	250	NKT232	254	NS1975	50	OC46	640	OC468	52	P2M-2	52
NA-1114-1008	250	NKT242	253	NS6062	52	OC46N	635	OC468K	52	P2M-3	52
NA-1114-1009	250	NKT243	254	NS6063	52	OC47	254	OC469	52	P2N	S3003
NA-1114-1010	250	NKT244	254	NS6064	52	OC47N	635	OC469K	52	P2P	716
NA-1114-1011	250	NKT246	254	NS6065	52	OC50	636	OC470	52	P2R	230
NA1505	R0162	NKT247	254	NS9710	56	OC53	639	OC470K	52	P2S	715
NA2005	R0162	NKT249	254	NS12006	R0136	OC54	639	OC602	254	P2T	700
NA5018-1001	637	NKT251	254	NT3C10	Z3512	OC55	639	OC602SP	253	P2T-1	700
NA5018-1002	640	NKT252	253	NT3C12	Z3514	OC56	639	OC603	254	P2T-2	700
NA5018-1003	640	NKT253	253	NT3C15	Z3516	OC57	253	OC604	254	P2T-3	700
NA5018-1004	640	NKT254	254	NT3C18	Z3518	OC58	254	OC604SP	253	P2T-4	700
NA5018-1005	640	NKT255	253	NT3C22	Z3520	OC59	254	OC612	2	P2U	S3027
NA5018-1006	640	NKT261	253	NT3C27	Z3522	OC60	254	OC613	2	P2U-1	S3028
NA5018-1007	640	NKT262	253	NT3C33	Z3524	OC65	253	OC614	639	P2U-2	S3029
NA5018-1008	640	NKT263	253	NT3C56	Z3530	OC66	253	OC615	639	P2U-3	S3030
NA5018-1009	638	NKT264	254	NT3C82	Z3534	OC70	253	OC700	739	P2V	S3027
NA5018-1010	638	NKT265	253	NT3C100	Z3536	OC71	253	OC700A	739	P2W	716
NA5018-1011	638	NKT270	254	OA6	134	OC71A	254	OC7008	739	P2Y	715
NA5018-1012	638	NKT271	254	OA7	135	OC71N	254	OC702	739	P2Z	644
NA5018-1013	250	NKT272	253	OA9	135	OC72	254	OC702A	52	P3A	S5008
NA5018-1014	250	NKT273	254	OA10	R0050	OC73	254	OC7028	52	P3A5	R0050
NA5018-1015	250	NKT274	253	OA47	135	OC74	254	OC704	52	P38	254
NA5018-1016	250	NKT275	253	OA70	135	OC74N	254	OC740	739	P385	R0050
NA5018-1219	638	NKT275A	253	OA71	134	OC75	254	OC742	739	P3C	715
NA5018-1220	638	NKT275E	254	OA72	134	OC75N	254	OC975	638	P3C5	R0052
NC29	134	NKT275J	254	OA73	135	OC76	253	OF66	R0602	P3D	250
NC30	254	NKT278	254	OA79	134	OC77	253	OF160	R0054	P3D5	R0052
NC32	238	NKT401	232	OA90	135	OC77M	253	OF162	R0602	P3E8LK	230
NC33	641	NKT402	232	OA91	135	OC79	253	OF173	134	P3E8LU	230
NC34	238	NKT403	232	OA92	135	OC80	254	ON174	636	P3EGRN	230
NGP3002	135	NKT404	232	OA95	R0052	OC81	254	ON271	728	P3ERED	230
NGP3003	R0052	NKT405	232	OA126/5	Z0405	OC83	253	ON274	55	P3H	235
NGP5002	Z0408	NKT415	230	OA126/10	Z0220	OC84	254	OP100	P2002	P3J	234
NGP5007	Z0412	NKT416	232	OA126/12	Z0415	OC122	254	OS70	134	P3K	S3031
NGP5010	Z0415	NKT450	230/232	OA126/14	Z0417	OC123	254	OSS-16308	R0054	P3M	700
NKT4	635	NKT451	230/232	OA129	R0052	OC130	640	OSS-16685	135	P3N-1	246
NKT5	635	NKT452	230/232	OA130	R0052	OC139	641	OSS-36885	R0054	P3N-2	246
NKT24	635	NKT452-S1	232	OA132	R0053	OC140	641	OSS-36885	R0054	P3N-3	246
NKT25	635	NKT453	230/232	OA134Q	134	OC141	641	P1A	230	P3N-4	246
NKT32	635	NKT454	232	OA172	135	OC169	637	P1A5	R0050	P3N-5	S5010
NKT33	254	NKT618	3	OA174	134	OC170	637	P18	715	P3P-1	S5007
NKT42	635	NKT675	639	OA180	135	OC171	637	P185	R0050	P3P-2	S5007
NKT43	254	NKT676	639	OA200	R0050	OC200	52	P1C	716	P3P-3	S5007
NKT52	254	NKT677	639	OA202	R0052	OC201	52	P1C5	R0052	P3P-4	S5007
NKT53	254	NKT713	641	OA210	R0094	OC202	52	P1D	716	P3P-5	S5007
NKT54	254	NKT717	641	OA211	R0087	OC203	52	P1D5	R0052	P3R	642
NKT62	254	NKT734	641	OA214	R0054	OC204	52	P1E	705	P3R-1	642
NKT63	254	NKT736	641	OA2200	Z0210	OC205	52	P1E-18LK	705	P3R-2	642
NKT64	253	NKT753	641	OA2201	Z0211	OC206	52	P1E-18LU	705	P3R-3	643
NKT72	253	NKT773	641	OA2202	Z0212	OC207	52	P1E-1GRN	705	P3R-4	643
NKT73	253	NKT781	641	OA2203	Z0214	OC303	253	P1E-1RED	705	P3S	246
NKT74	253	NL5	R0050	OA2204	Z0215	OC304	253	P1E-1VIO	705	P3T	642
NKT102	635	NL10	R0052	OA2206	Z0217	OC304/1	253	P1E-28LK	705	P3T-1	642
NKT103	254	NL15	R0052	OA2207	Z0219	OC304/2	254	P1E-28LU	705	P3T-2	642
NKT104	254	NL20	R0052	OA2209	Z0211	OC304/3	254	P1E-2GRN	705	P3U	S5005
NKT105	254	NL25	R0053	OA2210	Z0214	OC305	254	P1E-2RED	705	P3V	S5007
NKT106	254	NL30	R0053	OA2212	Z0219	OC305/1	254	P1E-2VIO	705	P3W	248
NKT107	254	NL40	R0053	OA2213	Z0222	OC305/2	254	P1E-38LK	705	P3Y	S3031
NKT108	254	NL50	R0054	OA2222	Z3504	OC306	2	P1E-38LU	705	P3Z	716
NKT109	254	NL60	R0054	OA2223	Z3505	OC306/1	253	P1E-3GRN	705	P4A5	R0050
NKT121	2	NN50	R0054	OA2225	Z3507	OC306/2	254	P1E-3RED	705	P48	716
NKT122	2	NO400	707	OA2227	Z3511	OC306/3	254	P1E-3VIO	705	P485	R0050

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DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
P4C	715	PA1001	52	PH108	R0054	PT2S	3	PTC204	170	QZ12T10	Z0415
P4C5	R0052	PA7601	590	PH109	R0056	PT3	R0053	PTC205	170	QZ14T5	Z0417
P4D	230	PA7703	C6001	PH204	R0054	PT5	R0053	PTC206	134	QZ14T10	Z0417
P4D5	R0052	PA7703X	C6001	PH208	R0054	PT5B	R0054	PTC207	134	QZ15T5	Z0418
P4E	S5008	PA10889-1	254	PH1021	R0053	PT6	230	PTC214	R0602	QZ15T10	Z0418
P4E-1	S5008	PA10889-2	254	PL991021	580	PT6D22/1	178	PTC215	two R0602	QZ27T5	Z0424
P4E-2	S5009	PA10890	230/232	PL991023	580	PT112	230	PTC406	R9003	QZ27T10	Z0424
P4E-3	S5009	PADT20	3	PL991029	580	PT25	230	PTC407	R9001	R-1	R0053
P4E-4	S5010	PADT21	3	PL991121	581	PT30	232	PTC501	Z0402	R-1A	R0052
P4F	235	PADT22	2	PL991123	581	PT32	642	PTC502	Z0407	R-1B	R0052
P4G	716	PADT23	3	PL991129	581	PT40	232	PTC503	Z0408	R-2A	R0162
P4H	235	PADT24	3	PL991429	584	PT50	625	PTC504	Z0410	R-2B	R0162
P4J	700	PADT25	3	PM194	56	PT150	625	PTC505	Z0412	R-3A	R0162
P4K	716	PADT27	2	PM195	56	PT155	232	PTC506	Z0413	R-3B	R0162
P4L	230	PADT28	3	PMT1767	56	PT176	232	PTC507	Z0415	R-4A	R0053
P4M	232	PADT30	3	PN26	703	PT201	231	PTC508	Z0416	R4HZ	R0255
P4N	230	PADT31	3	PN350	704	PT234	232	PTC509	Z0418	R-5	R0055
P4P	716	PAR12	232	POWER 12	230	PT235	232	PTC510	Z0420	R-5B	R0052
P4R	715	PB110	232	POWER 25	230/232	PT235A	230/232	PTC511	Z0424	R-5C	R0052
P4S	246	PBE3014-1	254	POWER 40	231	PT236	230/232	PTC512	Z0426	R6	R0054
P4T	S5005	PBE3014-2	254	POWER 60	233	PT236A	230/232	PTC513	Z0432	R-6A	R0162
P4U	S5006	PBE3020-1	254	POWER 80	233	PT236B	232	PTC514	Z0433	R-6B	R0162
P4V	S5008	PBE3020-2	641	POWER 99	232	PT236C	232	PTC515	Z0436	R6HZ	R0257
P4V-1	S5009	PBE3162	254	POWER 299	232	PT242	232	PTC516	Z0439	R8	R0055
P4V-2	S5010	PBE3322	135	POWER 500	231	PT250	236	PTC517	Z0428	R16	254
P4W	700	PC1879-004	Z0413	PQ27	3	PT255	232	PTC518	Z0430	R24-1001	635
P4W-1	700	PD-1567	R0846	PQ28	254	PT256	232	PTC703	C6062P	R24-1002	635
P4W-2	700	PD6002	Z0206	PQ29	254	PT285	232	PTC705	C6057P	R24-1003	254
P4Y	716	PD6002A	Z0206	PQ30	3	PT285A	232	PTC707	C6067G	R24-1004	254
P4Z	736	PD6003	Z0402	PQ31	230/232	PT301	232	PTC715	C6070P	R35	641
P5A5	R0050	PD6003A	Z0402	PR515	Z0405	PT301A	232	PTC719	C6071P	R43HZ	R0255
P5B5	R0050	PD6004	Z0208	PR605	Z0405	PT307	232	PTC726	C6063P	R52	632
P5C5	R0052	PD6004A	Z0208	PR617	Z0415	PT307A	232	PZ10A	Z3512	R56	254
P5D5	R0052	PD6006	Z0210	PR620	Z0418	PT501	233	PZ18A	Z3518	R60-1001	1
P6A5	R0050	PD6006A	Z0210	PR804	Z0405	PT505	R0050	PZ22A	Z3520	R60-1002	1
P6B5	R0050	PD6007	Z0211	PRC2A	R1241	PT510	R0052	PZT18	Z3518	R60-1003	1
P6C5	R0052	PD6007A	Z0211	PRC5A	R1241	PT515	R0052	PZT22	Z3520	R60-1004	254
P6D5	R0052	PD6008	Z0212	PRC10A	R1243	PT515 (Semtron)	237	PZT27	Z3522	R60-1005	254
P6RP8	R0055	PD6008A	Z0212	PRC15A	R1243	PT520	R0052	PZT33	Z3524	R60-1006	254
P6RP10	R0056	PD6009	Z0214	PRC20A	R1243	PT525	R0053	Q1	253	R60-1007	135
P7A5	R0050	PD6009A	Z0214	PRS3017	Z0405	PT530	R0053	Q-1A	251	R63HZ	R0257
P7B5	R0050	PD6010	Z0215	PRT101	706	PT530A	254	Q4	253	R64	254
P7C5	R0052	PD6010A	Z0215	PRT-104-3	706	PT540	R0053	Q-5	641	R65	254
P7D5	R0052	PD6012	Z0217	PS1	232	PT550	R0054	Q6	254	R66	254
P15	R9001	PD6012A	Z0217	PS005	R0050	PT554	230/232	Q7	254	R67	254
P17	R9002	PD6013	Z0219	PS010	R0052	PT555	232	Q8	254	R79	641
P100	R0052	PD6013A	Z0219	PS015	R0052	PT560	R0054	Q-9	641	R80	641
P100A	R0090	PD6014	Z0220	PS020	R0052	PT580	R0055	Q16	254	R87	254
P100B	R0091	PD6014A	Z0220	PS025	R0053	PT703	50	Q-35	54	R98	631
P100D	R0092	PD6016	Z0222	PS030	R0053	PT855	75	Q-36	708	R119	253
P100G	R0094	PD6016A	Z0222	PS035	R0053	PT856	75	Q49	135	R120	254
P100J	R0096	PD6018	Z0225	PS040	R0053	PT886	53	Q50	135	R122C	R9001
P150A	R0090	PD6018A	Z0225	PS050	R0054	PT887	53	Q51	135	R123	243
P150B	R0091	PD6020	Z0228	PS060	R0054	PT888	53	Q2001MS2	R1722	R152	254
P150D	R0092	PD6020A	Z0228	PS105	R0050	PT896	243	Q-00169C	802	R154B	175
P150G	R0094	PD6043	Z0206	PS110	R0052	PT897	53	Q-00184R	802	R-154B	R0054
P150J	R0096	PD6044	Z0402	PS120	R0052	PT898	53	Q-00269C	728	R163	253
P200	R0052	PD6045	Z0208	PS125	R0053	PT0139	254	Q-00284R	56	R164	254
P218-1	245	PD6047	Z0210	PS130	R0053	PT1835	50	Q-00369C	728	R177	641
P218-2	246	PD6048	Z0211	PS135	R0053	PT1836	50	Q-00384R	53	R186	253
P346	56	PD6049	Z0407	PS140	R0053	PT2677C	S3006	Q-00469C	728	R217	170
P400	R0053	PD6049c	Z0212	PS150	R0054	PT-2677C	S3006	Q-00484R	53	R227	253
P504	R0160	PD6050	Z0214	PS160	R0054	PT2760	50	Q-00569C	728	R242	254
P506	R0160	PD6051	Z0215	PS405	R0050	PT3151A	54	Q-00584R	53	R244	253
P600	R0054	PD6053	Z0217	PS410	R0052	PT3151B	54	Q-00669C	50	R250	170
P800	R0055	PD6054	Z0219	PS415	R0052	PT3151C	S3001	Q-00684R	728	R255	254
P1000	R0056	PD6055	Z0220	PS420	R0052	PT3540	S3005	Q-00769C	703	R265A	232
P1004	R0162	PD6057	Z0222	PS425	R0053	PT6022/1	178	Q-00784R	53	R290	254
P1006	R0162	PD6059	Z0225	PS430	R0053	PT31961	S3001	Q-00869C	729	R291	254
P2004	R0162	PD6061	Z0228	PS435	R0053	PT-31961	75	Q-00969C	S3001	R324	631
P2006	R0162	PE401	R0052	PS440	R0053	PT31962	S3005	Q-00984R	52	R336	636
P2010	R0162	PE402	R0052	PS450	R0054	PT-31962	S3005	Q-01069C	S3002	R337	636
P3139	247	PE403	R0053	PS460	R0054	PT31963	S3006	Q-01084R	642	R338	636
P10115	R0050	PE404	R0053	PS1140	R0056	PT-31963	S3006	Q-01169C	243	R339	636
P10155	134	PE405	R0054	PS1325	Z0214	PTC101	736	Q-01184R	729	R341	170
P10156	R0052	PE406	R0054	PS1511	Z0220	PTC102	254	Q-01269C	703	R350	2
P21309	R0700	PE408	R0055	PS1512	Z0220	PTC103	736	Q-01284R	S3002	R393	238
P21316	R0050	PE410	R0056	PS1513	Z0220	PTC105	232	Q-01384R	S3001	R424	2
P21317	R0053	PE502	R0052	PS1514	Z0220	PTC106	231	Q40359	2	R424-1	2
P21344	Z0412	PE504	R0053	PS1515	Z0220	PTC107	3	QA-8	722	R425	2
P633024G	243	PE506	R0054	PS1516	Z0220	PTC108	641	QA-9	242	R428	254
PA3	R0053	PE508	R0055	PS1517	Z0220	PTC109	632	QA-10	243	R440	238
PA069	R0052	PE510	R0056	PS2411	R0050	PTC110	245	QA-11	242	R488	253
PA070	R0053	PE3001	55	PS2412	R0052	PTC111	246	QA-14	724	R497	2
PA071	R0054	PE9093	C1053P	PS2413	R0052	PTC112	703	QA-15	725	R506	253
PA200	R0052	PE9099	C1052P	PS2415	R0054	PTC113	702	QA-16	713	R515	636
PA300	R0056	PE9930	C1030P	PS2416	R0055	PTC114	200	QA-17	242	R516	636
PA305	R0050	PE9932	C1032P	PS2417	R0056	PTC115	S0004	QA-18	802	R530	636
PA305A	R0050	PE9933	C1033P	PS6325	Z0436	PTC116	247	QA-20	801	R539	2
PA310	R0052	PE9944	C1044P	PS6468	Z0405	PTC117	706	QP-8	704	R558	254
PA310A	R0052	PE9945	C1045P	PS8901	Z0206	PTC118	707	QP-8-1	704	R563	2
PA315	R0052	PE9946	C1046P	PS8903	Z0208	PTC119	704	QP-8-P	704	R564	2
PA315A	R0052	PE9962	C1062P	PS8905	Z0210	PTC120	642	QP-12	704	R565	2
PA320	R0052	PEP2	50	PS8906	Z0211	PTC121	738	QP-13	700	R579	2
PA320A	R0052	PEP5	50	PS8907	Z0212	PTC122	707	QP-14	701	R581	639
PA325	R0053	PEP6	50	PS8908	Z0214	PTC123	S0001	QRF3	802	R592	736
PA325A	R0053	PEP7	50	PS8909	Z0215	PTC124	244	GSE1001	738	R593	2
PA330	R0053	PEP8	50	PS8911	Z0217	PTC125	S0001	GSE3001	720	R608A	254
PA330A	R0053	PEP9	50	PS8912	Z0219	PTC126	709	GSE5020	709	R621-1	245
PA340	R0053	PET1002	729	PS8913	Z0220	PTC127	S0001	QZ3-6T5	Z0402	R623-1	245
PA340A	R0053	PET4001	724	PS8915	Z0222	PTC128	S3006	QZ3-6T10	Z0402	R714	632
PA350	R0054	PET4002	725	PS8917	Z0225	PTC129	740	QZ5-1T5	Z0405	R715	632
PA350A	R0054	PET4003	726	PS8919	Z0228	PTC131	715	QZ5-1T10	Z0405	R2003	232
PA360	R0054	PET8000	728	PS10019B	Z0412	PTC132	719	QZ5-6T5	Z0407	R2096	241
PA360A	R0054	PET8001	738	PS100228	Z0415	PTC151	802	QZ5-6T10	Z0407	R2445-1	C6069G
PA380	R0055	PET8002	735	PS10024B	Z0418	PTC152	F0021	QZ6-2T5	Z0408	R3502	591
PA400	R0053	PET8003	738	PS10063	Z0412	PTC153	S9100	QZ6-2T10	Z0408	R3508	243
PA600	R0054	PET8004	738	PS10066	Z0415	PTC201	R0053	QZ10T5	Z0220	R3514-1	235
PA713	590	PF50	R0220	PS100							

HEP Semiconductor Replacement Cross-References

DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
R3608-2	243	RS-2006	230	RS5207	3	RS7138	50	RT5217	R0602	RZ26.2	Z0214
R109328	R9001	RS-2007	254	RS5209	253	RS7140	55	RT5379	135	RZ26.8	Z0215
R109474	R9001	RS-2008	706	RS5301	3	RS7143	55	RT5385	R9002	RZ28.2	Z0217
RA132AA	R0050	RS-2009	S0004	RS5302	253	RS7174	56	RT5435	55	RZ29.1	Z0219
RA132BA	R0052	RS-2010	S0007	RS5303	253	RS7175	56	RT5464	50	RZ210	Z0220
RA132DA	R0052	RS-2011	709	RS5305	253	RS7176	56	RT5465	50	RZ212	Z0222
RC080	R0055	RS-2013	735	RS5306	3	RS7201	50	RT5466	638	RZ215	Z0225
RCA35953	254	RS-2014	736	RS5311	3	RS7202	56	RT5467	638	RZ215A	Z0418
RCC-7022	R0054	RS-2015	723	RS5312	3	RS7210	54	RT5468	632	RZ218	Z0228
RD4AM	Z0402	RS-2016	S0004	RS5313	3	RS7212	56	RT5470	135	RZ222	Z0231
RD5A	Z0405	RS-2017	701	RS5401	3	RS7217	55	RT5471	Z0215	RZ227	Z0234
RD5B	Z0405	RS-2018	S3023	RS5402	253	RS7218	55	RT5472	R0602	RZ27A	Z0424
RD6A	Z0407	RS-2019	S5001	RS5403	253	RS7219	50	RT5520	639	RZ33A	Z0426
RD 6A	Z0407	RS-2020	S5004	RS5406	254	RS7220	56	RT5521	250	RZ82A	Z0436
RD-7A	Z0215	RS-2021	52	RS5502	254	RS7223	254	RT5522	250	RZ23.6	Z0402
RD-9A	Z0412	RS-2022	52	RS5503	254	RS7224	55	RT5551	55	RZ23.9	Z0208
RD9A-N	Z0412	RS-2023	716	RS5504	254	RS7225	55	RT5637	254	RZ24.7	Z0210
RD11A	Z0414	RS-2024	715	RS5505	254	RS7232	55	RT5793	Z0408	RZ25.1	Z0211
RD13A	Z0418	RS-2025	700	RS5506	254	RS7233	55	RT5900	728	RZ25.6	Z0212
RD-13A	Z0416	RS-2026	S3027	RS5507	254	RS7234	56	RT5901	728	RZ26.2	Z0214
RD-13AK	Z0416	RS-2027	S5002	RS5511	253	RS7235	55	RT5902	728	RZ26.8	Z0215
RD13B	Z0416	RS-2028	802	RS5530	254	RS7236	55	RT5903	728	RZ28.2	Z0217
RD13C	Z0416	RS-2029	310	RS5532	254	RS7238	55	RT5904	728	RZ29.1	Z0219
RD13D	Z0416	RS2350	254	RS5533	254	RS7310	240	RT5905	243	RZ210	Z0220
RD16A	Z0225	RS2351	254	RS5534	254	RS7311	240	RT5906	243	RZ212	Z0222
RE504	R0053	RS2352	254	RS5535	254	RS7312	240	RT5907	243	RZ215	Z0225
REDLIT-50	P2001	RS2353	254	RS5536	254	RS7327	240	RT5908	135	RZ218	Z0228
REJ70148	R0001	RS2354	254	RS5542	254	RS7328	240	RT5909	R0050	RZ222	Z0231
REJ70931	R0054	RS2355	254	RS5543	254	RS7329	240	RT5911	R0050	RZ227	Z0234
REJ-023	R9001	RS2367	254	RS5544	254	RS7330	240	RT6105	Z0411	S1-1	R0052
RF5465	R9001	RS2373	254	RS5545	254	RS7333	55	RT6119	135	S1A	R0053
RF5465-1P	R9001	RS2675	254	RS5563	254	RS7334	55	RT6157	56	S1A06	R0052
RF26235-1	R0054	RS2677	254	RS5564	254	RS7511	54	RT6158	56	S1AN6	R0131
RF26235-2	R0054	RS2679	2	RS5565	254	RS7512	54	RT6159	56	S1AN12	R0131
RF26235-5	R0054	RS2680	2	RS5566	254	RS7514	243	RT6160	56	S1AR1	R0052
RF32101-9	R0054	RS2683	2	RS5567	254	RS7515	54	RT6178	R2502	S1AR2	R0052
RF32421-2-3	R0054	RS2684	2	RS5568	254	RS7516	721	RT6179	135	S1B	R0054
RF32426-7	R9001	RS2685	2	RS5569	254	RS7517	54	RT6180	135	S1B01-01	R0050
RF33550-1	135	RS2686	2	RS5602	254	RS7518	243	RT6181	135	S1B01-02	R0050
RF33976	R0054	RS2687	2	RS5603	254	RS7519	54	RT6182	135	S1B02	R0050
RF34661	134	RS2688	2	RS5607	254	RS7520	54	RT6183	134	S1B02-C	R0054
RF61197	R0050	RS2689	254	RS5608	254	RS7527	50	RT6184	135	S1B02-CR	R9002
RFJ70147	R0053	RS2694	2	RS5610	254	RS7609	54	RT6201	56	S1B02-CR1	R9002
RFJ70148	R9001	RS2695	2	RS5612	232	RS7610	54	RT6202	53	S1B0102	R0054
RFJ70149	R0055	RS2696	2	RS5613	232	RS7611	54	RT6203	53	S1B0201CR	R0054
RFJ70431	R9001	RS2697	254	RS5614	232	RS7612	54	RT6205	254	S1BR5	R0162
RFJ70432	R0094	RS2801	135	RS5704	254	RS7613	54	RT6600	720	S1C	R0055
RFJ70931	R0054	RS3211	254	RS5704-2	254	RS7614	54	RT6619	135	S1CN1	R0091
RG1004	R0054	RS3275	254	RS5708	254	RS7623	54	RT6728	135	S1CR5	R0162
RG1127	R0052	RS3276	254	RS5708-2	254	RS7624	54	RT6729	R0050	S1D	R0056
RL31	134	RS3277	2	RS5709	254	RS7625	54	RT6731	R2502	S1D153	245
RL32	134	RS3278	2	RS5717	254	RS7626	54	RT6732	50	S1DR5	R0162
RL32G	134	RS3279	2	RS5717-1	254	RS7627	54	RT6733	50	S1ER5	R0162
RL34	134	RS3280	254	RS5717-3	254	RS7628	54	RT6734	254	S1GR2	R0091
RL34G	134	RS3281	253	RS5717-6	254	RS7637	721	RT6735	254	S1M1	R0090
RL41	135	RS3282	254	RS5720	254	RS7639	721	RT6736	632	S1M2	R0052
RL41G	135	RS3283	254	RS5733	254	RS7916	802	RT6787	56	S2A10	R0091
RL42	135	RS3285	254	RS5734	254	RS8424	254	RT6789	R2502	S2A20	R0092
RL52	135	RS3286	254	RS5735	254	RS8441	641	RT6791	R0091	S2A30	R0094
RL232G	134	RS3288	2	RS5736	254	RS8442	632	RT6988	638	S2A40	R0094
RL246	134	RS3289	254	RS5737	254	RS8443	641	RT6989	56	S2A50	R0096
RL252	135	RS3293	254	RS5740-1	254	RS8444	253	RT6990	254	S2A60	R0096
RN515	R0160	RS3299	254	RS5742	254	RS8446	254	RT6991	56	S2A80	R0097
RN1015	R0161	RS3301	254	RS5743	254	RS9510	55	RT7400	641	S2A100	R0098
RN1120	R0251	RS3309	2	RS5743-1	254	RS9512	55	RT7401	631	S2AN6	R0132
RN2015	R0162	RS3316	254	RS5743-2	254	RS57042	254	RT7402	175	S2AN12	R0132
RN3015	R0164	RS3322	2	RS5743-3	254	RS57062	254	RT7557	243	S2A06	R0052
RN4015	R0164	RS3323	2	RS5746	254	RT929H	54	RT7558	254	S2AR1	R0052
RN5015	R0166	RS3324	2	RS5747	254	RT930H	54	RT7634	R9002	S2AR2	R0052
RN6015	R0166	RS3726	254	RS5748	254	RT1184	135	RT7636	135	S2CN1	R0092
RS-05	R0050	RS3857	254	RS5749	254	RT1306	Z0407	RT7689	134	S2E20	R0052
RS-101	3	RS3858-1	232	RS5752	254	RT1667	135	RT7703	56	S2E60	R0054
RS-102	254	RS3862	3	RS5753	254	RT1686	R0602	RT7704	56	S2E100	R0056
RS-103	2	RS3863	3	RS5753-2	254	RT1689	135	RT7845	55	S2GR2	R0092
RS-104	641	RS3864	3	RS5754	254	RT1840	R0052	RT7846	254	S2M1	R0091
RS-105	230	RS3866	254	RS5755	254	RT2016	135	RT7848	R0054	S2M2	R0052
RS-106	231	RS3867	254	RS5756	254	RT2230	633	RT7849	R0054	S3A1	R0091
RS-107	53	RS3868	3	RS5761	253	RT2329	632	RT7850	R0054	S3A2	R0092
RS-108	54	RS3880	254	RS5765	254	RT2330	633	RT7851	135	S3A3	R0094
RS-109	56	RS3897	254	RS5766	254	RT2331	632	RT8333	56	S3A4	R0094
RS-110	52	RS3898	3	RS5767	254	RT2334	54	RT8895	52	S3A5	R0096
RS128	54	RS3900	3	RS5768	254	RT2451	135	RT-61012	135	S3A6	R0096
RS132	243	RS3902	3	RS5802	3	RT2694	135	RT-61014	638	S3A8	R0097
RS136	54	RS3903	3	RS5818	3	RT3230	633	RT-61015	254	S3A05	R0090
RS406	254	RS3904	254	RS5852	254	RT3336	134	RT-61016	254	S3A06	R0053
RS593	2	RS3905	2	RS5853	254	RT3466	637	RV6.2	Z0214	S3A10	R0098
RS684	2	RS3906	2	RS5854	254	RT3467	253	RV1467	709	S3AN6	R0134
RS685	2	RS3907	3	RS5855	232	RT3468	632	RV1468	709	S3AN12	R0134
RS686	2	RS3911	3	RS5857	54	RT3564	254	RV1469	709	S3AR1	R0053
RS687	2	RS3912	3	RS6471	R0050	RT3565	S0002	RT1470	709	S3CN1	R0094
RS1192	254	RS3913	254	RS7101	56	RT3566	254	RV1471	738	S3G4	R0056
RS1264	R0054	RS3914	253	RS7102	56	RT3567	S0002	RV1472	242	S3GR2	R0094
RS1539	2	RS3915	253	RS7104	56	RT3568	254	RV1473	721	S3M1	R0092
RS1540	254	RS3925	254	RS7105	56	RT3858	R0053	RV1474	721	S4A06	R0053
RS1541	254	RS3929	3	RS7106	56	RT4232	R0054	RV1475	632	S4AN6	R0134
RS1542	254	RS3959-1	230/232	RS7107	56	RT4293	135	RV1476	R0053	S4AN12	R0134
RS1543	254	RS5008	254	RS7108	56	RT4525	636	RV1477	R2502	S4AR1	R0053
RS1544	254	RS5101	3	RS7111	50	RT4624	633	RV1478	R0054	S4AR2	R0053
RS1546	254	RS5102	254	RS7112	54	RT4625	238	RV1479	135	S4C	R0054
RS1548	254	RS5103	254	RS7113	50	RT4644	54	RVDD2P22/1B	R0054	S4CN1	R0094
RS1550	2	RS5104	253	RS7114	55	RT4760	54	RVDD124B	R0054	S4GR2	R0094
RS1554	2	RS5105	2	RS7115	54	RT4761	55	RVDS-15	R2502	S4M1	R0094
RS1555	254	RS5106	2	RS7116	55	RT4762	643	RVDS-1Y	R0054	SSAN6	R0136
RS1805	R0053	RS5109	3	RS7117	55	RT4764	R0050	RV25C645	56	SSAN12	R0136
RS1811	135	RS5201	3	RS7118	56	RT4880	135	RZ3.3	Z0206	SSAR1	R0054
RS-2001	641	RS5202	254	RS7123	54	RT5061	56	RZ3.6	Z0402	SSAR2	R0054
RS-2002	637	RS5203	254	RS7125	50	RT5063	638	RZ3.9	Z0208	SSCN1	R0094
RS-2003	639	RS5204	3	RS7126	54	RT5070	R0050	RZ4.7	Z0210	SSGR2	R0096
RS-2004	632	RS5205	3	RS7127	50	RT5212</					

HEP Semiconductor Replacement Cross-References

DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
S6AN6	R0136	S91H	R0052	S1230	R0094	SA205RED	630	SC1294H	51	SD-16A	R0053
S6AN12	R0136	S92	R0052	S1240	R0094	SA205VIO	632	SC1724G	556	SD-16D	R0050
S6AR1	R0054	S92A	R0052	S1250	R0096	SA205WHT	633	SC1940G	591	SD-18	R0050
S6AR2	R0054	S92H	R0052	S1260	R0096	SA205YEL	631	SC2906	590	SD19	R2502
S6GR2	R0096	S93	R0053	S1270	R0097	SA240	631	SC2914	C6055L	SD-20	R2502
S6M1	R0096	S93A	R0053	S1280	R0097	SA310	51	SC3288PK	572	SD21A	134
S7AN6	R0137	S93H	R0053	S1286	709	SA311	51	SC3289PK	570	SD24	R2502
S7AN12	R0137	S94	R0053	S1290	R0098	SA312	51	SC4004	240	SD-27	Z0412
S7AR1	R0055	S95	R0054	S1310	57	SA313	51	SC4044	54	SD31	Z0230
S8-01	R0161	S025	254	S1313	56	SA314	51	SC-4131	245	SD32	Z0212
S8AN6	R0137	S031A	728	S-1316	56	SA315	51	SC5118P	595	SD-33	Z0222
S8AN12	R0137	S037	55	S1318	719	SA316	51	SC5150P	C6088P	SD34	134
S8AR2	R0055	S065	253	S1331	53	SA318-2	253	SC5172P	C6065P	SD39	R2502
S8CN1	R0097	S065A	3	S1361	728	SA318-3	254	SC5204P	C6086P	SD46	134
S8GR2	R0097	S088	254	S1362	720	SA410	52	SC5221P	C6085P	SD-46	134
S8M1	R0096	S101	R0052	S1363	729	SA411	52	SC5718P	C6087P	SD-46.2	135
S9AN6	R0138	S102	R0053	S1364	728	SA412	52	SC8707P	C6077P	SD46R	134
S9AN12	R0138	S103	R0053	S1366	712	SA413	52	SC17063L	C6055L	SD51	R0700
S01	3	S104	R0053	S1367	716	SA414	52	SCA1	R0052	SD56	134
S02	3	S105	R0090	S1368	736	SA415	52	SCA2	R0052	SD60	134
S03	3	S105A	R0090	S1369	727	SA416	52	SCA3	R0053	SD 60	135
S-05	R0054	S106	R0053	S1642	736	SA495	52	SCA4	R0053	SD82A	R0700
S-05-01	R0054	S107	R0054	S-1682	56	SA495A	52	SCA5	R0054	SD-82A	R0700
S-05-005	R0050	S108	R0053	S1835	728	SA496	52	SCA6	R0054	SD91	R0052
S10	R0052	S110A	R0098	S1897	721	SA496A	52	SCA8	R0055	SD91A	R0052
S10A	R0052	S115	R0052	S1978	S3001	SA496B	52	SCA05	R0050	SD91S	R0052
S10AN6	R0138	S130-138	709	S2003L	R1218	SA529	251	SCA10	R0056	SD92	R0052
S10AN12	R0138	S130-251	709	S2020	56	SA537	52	SCE1	R0052	SD92A	R0052
S10AR1	R0056	S200	R0050	S2038	56	SA538	52	SCE2	R0052	SD92S	R0052
S10AR2	R0056	S201	R0052	S2041	242	SA539	52	SCE4	R0053	SD93	R0053
S10CN1	R0097	S202	R0052	S2045	736	SA540	52	SCE6	R0054	SD93A	R0053
S10GR2	R0098	S203	R0053	S2059	240	SA565	250	SCE8	R0055	SD94	R0053
S10M1	R0097	S204	R0053	S-2172	56	SA646	250	SC10E	R0056	SD94A	R0053
S11A	R0091	S205	R0054	S2617	56	SA681	253	SC05	R0050	SD94S	R0053
S12	R0092	S206	R0054	S-2617	56	SA821	Z0214	SC05E	R0050	SD95	R0054
S12A	R0092	S208	R0055	S3004-1715	Z0408	SA821A	Z0214	SC0515	R0160	SD95A	R0054
S12CN1	R0098	S210	R0056	S3004-1718	Z0408	SA823	Z0214	SCP5E	R0050	SD96	R0054
S12M1	R0098	S217	R0052	S3016R	R0600	SA823A	Z0214	SCR-01	R1241	SD96A	R0054
S13	R0094	S218	R0054	S5021	709	SA825	Z0214	SCR01C	R1241	SD96S	R0054
S13A	R0094	S219	R0053	S5089-A	R0052	SA825A	Z0214	SCR-02	R1243	SD98S	R0055
S14	R0094	S220	R0050	S5327E	56	SA827	Z0214	SCR02C	R1243	SD020	135
S14A	R0094	S221	R0052	S5328E	56	SA827A	Z0214	SCR-03	R1301	SD101	R0053
S15	R0054	S222	R0052	S5596K	C6050G	SA829	Z0214	SCR03C	R1301	SD102	R0054
S15A	R0096	S223	R0053	S5670E	245	SA829A	Z0214	SCR-04	R1304	SD470	R0054
S16	R0096	S224	R0053	S10153	245	SA81044	709	SCR04C	R1304	SD500	R0053
S16A	R0096	S229	R0092	S12100	R0098	SA83469	709	SCR15	R1002	SD500C	R0053
S16B	R0053	S230	R0054	S15657	56	SB12	R0050	SCR55	R1241	SD600	R0054
S17	R0052	S231	R0094	S15658	56	SB-2	R0054	SCR102	R1302	SD600C	R0054
S17A	R0052	S232	R0054	S20445	S3001	SB-2B	R0054	SCR104	R1221	SD630	R0600
S18	R0097	S233	R0056	S20446	S3001	SB2C	R0056	SCR108	R1003	SD 630	R0600
S18A	R0097	S234	R0055	S-20446	S3001	SB-2T	R0090	SCR109	620	SD632	Z0412
S18B	R0054	S235	R0053	S-21271	135	SB-3	R0050	SCR118	R1304	SD701-02	R0054
S19	R0053	S236	R0092	S21520	241	SB-3N	R0054	SCR200	R1005	SD800	R0055
S19A	R0054	S238	R0053	S24612	717	SB100	2	SCR202	R1304	SD910	R0056
S20	R0055	S239	R0054	S25805	56	SB168	254	SCR204	R1221	SD910A	R0056
S21	R0050	S240	R0052	S33886	51	SB169	254	SCR207	R1304	SD910S	R0056
S22	R0050	S241	R0050	S34540	723	SB200	2	SCR208	R1304	SD3720	584
S22A	R0050	S243	R0053	S95101	3	SB821	Z0214	SCR209	620	SD3730	580
S23	R0054	S250	R0050	S95102	3	SB821A	Z0214	SCR218	R1005	SD3745	C2502P
S23A	R0054	S251	R0052	S95103	3	SB823	Z0214	SCR255	R1471	SDA445	S5006
S24	R0056	S252	R0052	S95201	253	SB823A	Z0214	SCR401	621	SDA44	R9001
S26	R0053	S253	R0053	S95202	54	SB825	Z0214	SCR402	R1307	SD6	R9002
S28	R0055	S254	R0053	S95203	254	SB825A	Z0214	SCR408	R1307	SDD420	53
S30	R0054	S255	R0054	S95204	254	SB827	Z0214	SCR409	620	SDD421	53
S31	R0053	S256	R0054	S95214	254	SB827A	Z0214	SCR414	601	SDD821	50
S32	R0130	S257	R0055	S-95218	254	SB829	Z0214	SCR502	R1301	SDI1220	53
S33	R0050	S258	R0055	S-95252	244	SB829A	Z0214	SCR505	R1246	SDI3000	53
S34	R0050	S260	R0056	S99101	3	SB5122	2	SCR508	R1301	SDH-2	135
S35	R0132	S262	R0700	S99102	3	SBR-260	R0054	SCR520	R1243	SDT-3048	232
S36	R0054	S300	R0134	S99103	3	SC1	R0052	SCR538	R1221	SDT6901	241
S37	R0130	S400	R0134	S99201	254	SC2	R0052	SCR613	R1221	SDT6905	241
S38	R0130	S410	R0131	S99203	254	SC4	R0053	SCR2520	R1473	SDT9261	247
S39	R0131	S411	R0132	S-99218	254	SC6	R0054	SD1	R0053	SE0	R0056
S40	R0050	S413	R0134	S-99252	244	SC8	R0055	SD-1	R0050	SE-0.5A	R0053
S40A	R0050	S415	R0136	SA1M1	R0091	SC8A	R0055	SD1-211B	R0053	SEOS-01	R0054
S43	R0050	S417	R0137	SA2	R0094	SC05	R0050	SD1-211C	R0054	SE-5-0819	253
S44	R0052	S420	R0131	SA2B	R0054	SC05E	R0050	SD1A	R0054	SE6	R0054
S46	R0052	S421	R0132	SA-2B	R0054	SC10	R0056	SD-1A	R0054	SE-05	R0050
S47	R0050	S423	R0134	SA2M1	R0092	SC10A	R0056	SD-1AHF	R0053	SE05A	R0053
S48	R0050	S425	R0136	SA3M1	R0094	SC12	254	SD-1AUF	R0050	SE05B	R0054
S49	R0050	S427	R0137	SA4M1	R0094	SC15	R2502	SD1B	R0055	SE05D	R0056
S50	R0137	S500	R0136	SA5M1	R0096	SC35D	R1785	SD-1B	R0054	SE05S	R0052
S51	R0131	S500B	R0053	SA6M1	R0096	SC40A	R1751	SD1C	R0056	SE05SS	R0052
S52	R0132	S500C	R0053	SA7	641	SC40B	R1751	SD-1CUF	R0054	SE1001	738
S53	R0134	S600	R0136	SA8M1	R0097	SC40D	R1752	SD-1LA	R0054	SE1001-1	727
S54	R0134	S750	R0053	SA10M1	R0098	SC40F	R1750	SD-1VHF	R0054	SE1001-2	727
S55	R0136	S750C	R0053	SA29	630	SC46	134	SD1X	R0050	SE1002	738
S56	R0136	S800	R0137	SA33	250	SC50B	R1783	SD1Y	R0050	SE1002-1	728
S57	R0137	S1000	R0138	SA33BRN	250	SC50D	R1785	SD-1Y	R0050	SE1002-2	728
S58	R0137	S1010	R0052	SA33RED	250	SC60B	R1783	SD1Z	R0052	SE1010	720
S59	R0138	S1019	56	SA50	52	SC60D	R1785	SD-1Z	R0050	SE1019	56
S60	R0138	S-1019	56	SA51	52	SC66	254	SD2	R0053	SE1044	56
S61	R0056	S1037	56	SA52	52	SC115	R0162	SD2A	R0054	SE1730	R0056
S62	R0056	S1041	720	SA52A	52	SC141B	R1723	SD2C	R0056	SE2001	729
S63	R0055	S1044	56	SA52B	52	SC141D	R1725	SD4	R0053	SE2002	728
S72	R0050	S1058	55	SA53	52	SC1468	R1723	SD4 (dual)	R9001	SE3001	720
S73	R0050	S1059	56	SA54	52	SC146D	R1725	SD6	R0054	SE3002	720
S77	R0050	S1060	56	SA55	52	SC215	R0162	SD6 (dual)	R9002	SE3003	709
S79	R0050	S1061	54	SA56	52	SC821	Z0214	SD-7	R0055	SE3005	720
S81	R0052	S1062	55	SA70	52	SC821A	Z0214	SD8	R0055	SE3030	707
S82	R0052	S1065	54	SA128-1	629	SC823	Z0214	SD-8	R0055	SE3031	707
S83	R0053	S1069	54	SA197	631	SC823A	Z0214	SD05	R0050	SE3032	247
S84	R0053	S1078	56	SA197-1	631	SC825	Z0214	SD-12	134	SE3033	247
S85	R0054	S1079	50	SA197-2	631	SC825A	Z0214	SD12B	134	SE3034	247
S-85	245	S1080	50	SA197-3	631	SC827	Z0214	SD12E	134	SE3035	247
S86	R0054	S1143	54	SA204	631	SC827A	Z0214	SD12M	134	SE3036	247
S-86	245	S1153	55	SA205BLU	632	SC829	Z0214	SD13	134	SE3040	703
S91	R0052	S1210	R0091	SA205BRN	629	SC829A	Z0214	SD14	134	SE3041	241
S91A	R0052	S1220	R0092	SA205GRN	632	SC832	54	SD15	134	SE3646	729
S91B	R0091	S1227	55	SA205ORN	630	SC1229G	53	SD16	135	SE4001	729

HEP Semiconductor Replacement Cross-References

DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
SE4002	728	SFT184	641	SI801-02	R0054	SJ3423	707	SK-1W55	Z0432	SL-5	R0052
SE4010	55	SFT212	230	SI802-CR1	R9002	SJ3447	241	SK7	641	SL10	R0138
SE4020	S0007	SFT213	230/232	SID2A-1	R9001	SJ3464	704	SK1320	56	SL50	R0130
SE4172	50	SFT214	232	SID2A-3	R9001	SJ3477	707	SK1856	57	SL91	R0052
SE5001	719	SFT221	253	SID3B-3	R9002	SJ3478	707	SK2604	57	SL92	R0052
SE5002	719	SFT222	253	SID01E	R0053	SJ3507	248	SK3003	250	SL93	R0053
SE5003	719	SFT223	254	SID01K	R0056	SJ3519	247	SK3004	254	SL-030T	two R0054
SE5006	56	SFT226	253	SID01L	R0054	SJ3520	248	SK3005	633	SL051A	R0160
SE5010	56	SFT227	635	SID02E	R0053	SJ3604	704	SK3006	635	SL100	R0131
SE5015	56	SFT228	635	SID02K	R0056	SJ3636	S7000	SK3007	635	SL200	R0132
SE5020	709	SFT229	635	SID02L	R0054	SJ3637	S7001	SK3008	636	SL300	R0134
SE5021	709	SFT237	254	SIDA0.5K	R0096	SJ3678	247	SK3009	230	SL400	R0134
SE5022	709	SFT238	230/232	SIDA0.5N	R0097	SJ3679	248	SK3010	641	SL500	R0136
SE5023	709	SFT239	232	SIDA0.5P	R0098	SJ5196	707	SK3011	641	SL600	R0136
SE-5023	709	SFT240	232	SiG1/100	R0052	SJ8701	247	SK3012	231	SL608	R0055
SE5024	709	SFT241	253	SiG1/200	R0052	SJ9110	704	SK3013	two 230	SL610	R0056
SE5025	720	SFT243	254	SiG1/400	R0053	SJ942	701	SK3014	232	SL708	R0055
SE-5025	719	SFT250	232	SiG1/600	R0054	SJE100	245	SK3015	two 232	SL710	R0056
SE5029	56	SFT251	253	SiG1/800	R0055	SJE106	245	SK3016	R0054	SL800	R0137
SE5030A	729	SFT252	253	SIRECT-2	R0054	SJE108	246	SK3017	R0054	SL800X	R0137
SE5030B	S0004	SFT253	254	SI-RECT-27	R0054	SJE111	246	SK3017A	R0054	SL1000	R0138
SE5031	56	SFT259	641	SI-RECT-33	R0052	SJE112	246	SK3018	728	SL1000X	R0138
SE5036	56	SFT260	641	SIRECT-36	R0054	SJE113	245	SK3019	709	SLA01	R0056
SE5040	56	SFT261	641	SI-RECT-39	R0054	SJE114	246	SK3020	736	SLA11AB	R0050
SE5050	709	SFT264	231	SIRECT-48	R0054	SJE133	245	SK3021	240	SLA11C	R0050
SE5051	709	SFT265	231/233	SI-RECT-59	R0054	SJE202	246	SK3022	591	SLA12AB	R0052
SE5052	709	SFT266	233	SI-RECT-69	R0054	SJE203	245	SK3023	591	SLA12AB	R0052
SE5055	50	SFT267	233	SIRECT-92	R0054	SJE205	244	SK3024	243	SLA13AB	R0052
SE5056	56	SFT268	233	SIRECT-102	R0054	SJE210	246	SK3025	242	SLA13C	R0052
SE6001	721	SFT288	635	SI-RECT-152	R0054	SJE211	245	SK3026	241	SLA14AB	R0053
SE6002	721	SFT298	641	SI-RECT-122	R0602	SJE218	244	SK3027	247	SLA14C	R0053
SE6010	50	SFT306	253	SI-RECT-204	R0056	SJE220	701	SK3028	two 241	SLA15AB	R0053
SE6020	S3001	SFT307	253	SISD-1	R0054	SJE221	246	SK3029	two 247	SLA15C	R0053
SE6021	714	SFT308	639	SISD-1HF	R0056	SJE222	245	SK3030	R0052	SLA16AB	R0054
SE6022	S3001	SFT315	637	SISD-1X	R0054	SJE227	246	SK3031	R0053	SLA16C	R0054
SE6023	714	SFT316	637	SJ051A	R0160	SJE228	245	SK3032	R0055	SLA17AB	R0054
SE7001	713	SFT317	640	SJ051F	R0050	SJE229	245	SK3033	R0056	SLA17C	R0054
SE7002	713	SFT318	2	SJ052A	R0160	SJE231	700	SK3034	234	SLA18AB	R0055
SE7005	712	SFT319	639	SJ052F	R0050	SJE232	244	SK3035	235	SLA18C	R0055
SE7006	240	SFT320	639	SJ053E	R0160	SJE237	245	SK3036	704	SLA19AB	R0056
SE7010	712	SFT321	253	SJ053EK	R0130	SJE241	246	SK3037	two 704	SLA19C	R0056
SE7020	240	SFT322	254	SJ053F	R0090	SJE242	245	SK3038	50	SLA21A	R0090
SE8001	736	SFT323	253	SJ053K	R0160	SJE243	246	SK3039	709	SLA21B	R0090
SE8002	736	SFT325	254	SJ054E	R0160	SJE244	245	SK3040	713	SLA21C	R0090
SE8010	S0005	SFT337	253	SJ054EK	R0130	SJE245	246	SK3041	S5001	SLA22A	R0091
SE8012	S0001	SFT351	253	SJ054K	R0160	SJE246	245	SK3042	R1223	SLA22B	R0091
SE8040	S3001	SFT352	253	SJ101A	R0162	SJE247	246	SK3043	R0054	SLA22C	R0091
SE8041	S3001	SFT353	254	SJ101F	R0052	SJE248	245	SK3044	S3021	SLA23A	R0092
SE8042	S3001	SFT354	637	SJ102A	R0162	SJE253	245	SK3045	244	SLA23B	R0092
SE8540	716	SFT357	637	SJ102F	R0052	SJE254	701	SK3046	75	SLA23C	R0092
SE9020	707	SFT357P	637	SJ103E	R0162	SJE255	701	SK3047	75	SLA24A	R0094
SE9060	241	SFT358	637	SJ103EK	R0131	SJE256	700	SK3048	243	SLA24B	R0094
SE9061	241	SFT377	641	SJ103F	R0091	SJE257	246	SK3049	245	SLA24C	R0094
SE9062	241	SFT526	253	SJ103K	R0162	SJE261	245	SK3050	F2004	SLA25A	R0094
SE9063	241	SFT713	50	SJ104E	R0162	SJE262	245	SK3051	170	SLA25B	R0094
SE9560	702	SFT714	50	SJ104EK	R0131	SJE265	246	SK3052	642	SLA25C	R0094
SE9561	702	SFZ708	Z0407	SJ104K	R0162	SJE267	246	SK3054	S5004	SLA26A	R0096
SE9562	702	SFZ716	Z0415	SJ130	240	SJE271	245	SK3055	Z0402	SLA26B	R0096
SE9563	702	SG40P	C3020P	SJ201A	R0162	SJE272	245	SK3057	Z0407	SLA26C	R0096
SE9570	S5007	SG41P	C3020P	SJ201F	R0052	SJE273	246	SK3058	Z0408	SLA27A	R0096
SE9571	S5007	SG42P	C3020P	SJ202A	R0162	SJE274	245	SK3060	Z0412	SLA27B	R0096
SE9572	S5006	SG43P	C3020P	SJ202F	R0052	SJE275	246	SK3062	Z0415	SLA27C	R0096
SE9573	S5006	SG60P	C3030P	SJ203E	R0162	SJE276	246	SK3063	Z0418	SLA28A	R0097
SELEN-26	R9001	SG61P	C3030P	SJ203EK	R0132	SJE277	246	SK3064	Z0424	SLA28B	R0097
SELEN-42	R0054	SG62P	C3030P	SJ203F	R0092	SJE278	245	SK3065	F2004	SLA28C	R0097
SELEN-44	R0054	SG005	R0053	SJ203K	R0162	SJE279	246	SK3072	C6063P	SLA29A	R0098
SE5632	704	SG-005	R0053	SJ204E	R0162	SJE280	245	SK3076	C6071P	SLA29B	R0098
SF1	R0056	SG105	R0052	SJ204EK	R0132	SJE283	700	SK3079	707	SLA29C	R0098
SF1R-3B41	R1221	SG130P	C3040P	SJ204K	R0162	SJE284	701	SK3080	R0056	SLA440	R0052
SF100P	C3073P	SG131P	C3040P	SJ301F	R0053	SJE288	700	SK3081	170	SLA440B	R0052
SF101P	C3073P	SG132P	C3040P	SJ302F	R0053	SJE289	701	SK3082	642	SLA441	R0052
SF102P	C3073P	SG133P	C3040P	SJ303F	R0094	SJE290	244	SK3083	S5006	SLA441B	R0052
SF103P	C3073P	SG140P	C3000P	SJ304EK	R0134	SJE305	245	SK3084	S5008	SLA442	R0053
SF1713	53	SG141P	C3000P	SJ401F	R0053	SJE320	701	SK3085	700	SLA442B	R0053
SF1714	53	SG142P	C3000P	SJ402F	R0053	SJE340	245	SK3086	two 642	SLA443	R0053
SF1726	53	SG143P	C3000P	SJ403F	R0094	SJE400	244	SK3087	134	SLA443B	R0053
SF1730	53	SG190P	C3010P	SJ404EK	R0134	SJE401	701	SK3088	134	SLA444	R0054
SFC4050	C6018	SG191P	C3010P	SJ501F	R0054	SJE402	701	SK3089	R0700	SLA444B	R0054
SFC4052	C6088P	SG192P	C3010P	SJ601F	R0054	SJE403	700	SK3091	135	SLA445	R0054
SFC6050	C6015	SG193P	C3010P	SJ603EK	R0136	SJE404	701	SK3092	Z0414	SLA445B	R0054
SFD107	135	SG205	R0052	SJ603F	R0096	SJE405	701	SK3093	Z0416	SLA536	R0050
SFD112	134	SG305	R0053	SJ604EK	R0136	SJE407	701	SK3094	Z0417	SLA537	R0052
SFR151	R0052	SG333	C3001P	SJ619	247	SJE408	246	SK3095	Z0426	SLA538	R0052
SFR152	R0052	SG383	C3004P	SJ619-1	247	SJE527	245	SK3096	Z0432	SLA539	R0053
SFR153	R0052	SG505	R0054	SJ652	702	SJE583	245	SK3097	Z0433	SLA540	R0053
SFR154	R0053	SG805	R0055	SJ803F	R0097	SJE584	246	SK3098	Z0436	SLA547	R0054
SFR155	R0054	SGR100	R0052	SJ805	240	SJE721	245	SK3099	Z0439	SLA560	R0055
SFR156	R0054	SH1	R0053	SJ806	240	SJE723	700	SK3104	S3021	SLA561	R0056
SFR164	R0053	SH-1	R0054	SJ811	703	SJE724	701	SK3112	801	SLA599	R0050
SFR251	R0052	SH1A	R0054	SJ820	247	SJE736	246	SK3114	716	SLA599A	R0050
SFR252	R0052	SH18	R0055	SJ821	248	SJE737	245	SK3116	F2004	SLA600	R0052
SFR253	R0053	SH1C	R0056	SJ822	702	SJE743	701	SK3117	718	SLA600A	R0052
SFR254	R0053	SH1S	R0052	SJ1000F	R0098	SJE764	248	SK3118	716	SLA601	R0052
SFR255	R0054	SH4D1	R0052	SJ1003EK	R0138	SJE768	700	SK3119	R9001	SLA601A	R0052
SFR256	R0054	SH4D2	R0052	SJ1106	704	SJE769	245	SK3121	R9002	SLA602	R0052
SFR258	R0055	SH4D3	R0053	SJ1152	702	SJE781	701	SK3122	736	SLA602A	R0052
SFR264	R0053	SH4D4	R0053	SJ1165	240	SJE783	701	SK3500	R0136	SLA603	R0053
SFR266	R0054	SH4D6	R0054	SJ1171	702	SJE784	701	SK3501	R0257	SLA603A	R0053
SFR268	R0055	SH4D05	R0050	SJ1172	241	SJE785	701	SK3502	R1223	SLA604	R0053
SFT124	253	SH17910L	580	SJ1201	240	SJE797	246	SK3507	R1725	SLA604A	R0053
SFT125	254	SH1	R0091	SJ1272	S7001	SJE799	246	SK3508	R1785	SLA605	R0054
SFT125P	254	SH1A	R0092	SJ1284	240	SJE1518	246	SK3510	704	SLA605A	R0054
SFT143	253	SH5	R0096	SJ1286	702	SJE1519	245	SK3511	704	SLA606	R0054
SFT144	254	SH05	R0090	SJ1470	704	SJE1520	245	SK3515	R0056	SLA606A	R0054
SFT162	637	SH05A	R0090	SJ2001	248	SJE3754	244	SK3516	R0138R	SLA1095	R0054
SFT163	637	SH10	R0098	SJ2023	S7001	SJE5018	S5001	SK7181	56	SLA1096	R0054
SFT171	3	SH150E	R0050	SJ2024	S700						

HEP Semiconductor Replacement Cross-References

DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
SLA1104	R0054	SM1507	52	SP485B	623	SPC40	50	SPSA041	729	SR1EM-4	R0098
SLA1105	R0054	SM1600	2	SP485BLK	628	SPC42	721	SPSA042	721	SR1FM	R0050
SLA1487	R0052	SM2492	3	SP485BLU	628	SPC50	50	SPSA043	56	SR1FM2	R0051
SLA1488	R0052	SM2700	53	SP485BRN	628	SPC51	50	SPSA044	737	SR1FM4	R0052
SLA1489	R0053	SM2701	53	SP485W	623	SPC52	50	SPSA045	728	SR1FM6	R0053
SLA1490	R0053	SM3014	637	SP485WHT	628	SPF024	801	SPSA049	736	SR1FM8	R0053
SLA1491	R0054	SM3104	53	SP486	230/232	SPF215	803	SPSA050	56	SR1FM10	R0054
SLA1492	R0054	SM3505	53	SP486W	623	SPF274	F2007	SPSA051	56	SR1FM12	R0054
SLA1692	R0052	SM3986	53	SP486WHT	628	SPS4	722	SPSA052	724	SR1FM16	R0055
SLA1693	R0052	SM3987	51	SP634	232	SPS12	52	SPSA053	723	SR1FM20	R0056
SLA1694	R0053	SM4547	52	SP649-1	232	SPS20	729	SPSA054	716	SR1HM-2	R0053
SLA1695	R0053	SM4719	52	SP744	232	SPS22	52	SPSA055	721	SR1K	R0052
SLA1696	R0054	SM5379	50	SP777	230	SPS38	729	SPSA056	715	SR-1K-2	R0054
SLA1697	R0054	SM5380	S0007	SP819R	628	SPS40	732	SPSA059	737	SR3AM1	R0090
SLA2610	R0052	SM5564	641	SP834	232	SPS41	726	SPSA060	725	SR3AM2	R0091
SLA2611	R0052	SM5643	54	SP838	236	SPS42	715	SPSA061	721	SR3AM4	R0092
SLA2612	R0053	SM7545	53	SP875	230	SPS43-1	732	SPSA062	735	SR3AM6	R0094
SLA2613	R0053	SM-7991	S3001	SP880	230/232	SPS47	715	SPSA063	726	SR3AM8	R0094
SLA2614	R0054	SM9253	726	SP880-1	232	SPS91	628	SPSA064	717	SR3AM10	R0096
SLA2615	R0054	SN-1	R0054	SP880-3	232	SPS401K	715	SPSA066	725	SR3AM10	R0050
SLA2616	R0055	SN-1Z	R0052	SP891	230/232	SPS428	56	SPSA067	725	SR6	R9001
SLA2617	R0056	SN60	50	SP891B	623	SPS514	715	SPSA068	719	SR10	R0052
SLA3193	R0052	SN80	736	SP891BLU	623	SPS817	720	SPSA069	726	SR10D1	R0160
SLA3194	R0053	SN7400N	C3000P	SP891G	628	SPS837	S3031	SPSA072	715	SR10D2	R0162
SLA3195	R0054	SN7401N	C3001P	SP891GRN	628	SPS868	729	SPSA073	716	SR10D4	R0162
SLA3196	R0055	SN7402N	C3002P	SP891R	628	SPS0121	242	SPSA074	721	SR10F1S	R0220
SLA5197	R0090	SN7404N	C3004P	SP891W	624	SPS0122	243	SPSA075	737	SR10F4S	R0222
SLA5198	R0091	SN7410N	C3010P	SP891WHT	624	SPS-1351	56	SPSA076	715	SR10J1S	R0220
SLA5199	R0092	SN7420N	C3020P	SP1013B	720	SPS-1352	56	SPSA077	715	SR10J2S	R0222
SLA5200	R0094	SN7430N	C3030P	SP1081	237	SPS-1353	56	SPSA078	717	SR10J4S	R0222
SLA5201	R0096	SN7440N	C3040P	SP1105	237	SPS1523	716	SPSA079	722	SR-13	R9001
SLA5202	R0097	SN7441N	C3041P	SP1108	624	SPS2110	S0008	SPSA080	719	SR14	R0053
SLA5203	R0098	SN7450N	C3050P	SP1118	232	SPS2111	56	SPSA081	726	SR20	R0052
SM4	R0050	SN7473N	C3073P	SP1271	232	SPS2224	56	SPSA082	715	SR-20	R9001
SM5	R0050	SN7475N	C3075P	SP1323	230	SPS2225	721	SPSA083	737	SR20F1S	R0220
SM10	R0052	SN7490N	C3000P	SP1378	625	SPS2265-1	56	SPSA084	737	SR20F2S	R0222
SM11	R0052	SN7492N	C3801P	SP1403	623	SPS2265-2	56	SPSA085	724	SR29	R9001
SM20	R0052	SN15830N	C1030P	SP1481	620	SPS2269	717	SPSA086	716	SR30	R0053
SM30	R0053	SN15832N	C1032P	SP1481-2	628	SPS2270	S0003	SPSA087	717	SR40	R0053
SM31	R0053	SN15833N	C1033P	SP1481-3	623	SPS2271	737	SPSA088	725	SR50	R0054
SM40	R0053	SN15836N	C1036P	SP1481-4	624	SPS2272	715	SPSA089	736	SR60	R0054
SM50	R0054	SN15844N	C1044P	SP1481-5	624	SPS2274	717	SPSA090	716	SR-100	R0052
SM51	R0054	SN15845N	C1045P	SP1482-2	628	SPS2320	S0009	SPSA091	722	SR105	R0052
SM60	R0054	SN15846N	C1046P	SP1482-3	623	SPS3003	719	SPSA092	S3027	SR106	R0221R
SM63	C3075P	SN15862N	C1062P	SP1482-4	624	SPS3015	724	SPSA095	738	SR106-1	R0221R
SM70	R0055	SN17810L	580	SP1482-5	624	SPS3329	717	SPSA145	734	SR107	R0221
SM71	R0055	SN17811L	581	SP1482-6	624	SPS3370	56	SPSA167	56	SR107-1	R0221
SM73	C3075P	SN17910L	580	SP1482-7	624	SPS3724	57	SPSA168	720	SR-114	R0052
SM80	R0055	SN72741P	C6052P	SP1483-1	623	SPS3735	721	SPSA169	738	SR120	R0054
SM81	R0055	SN76104N	594	SP1483-2	624	SPS3786	716	SPSA199	S0007	SR-120	R0054
SM83	R0055	SN76105N	595	SP1483-3	624	SPS3787	734	SPSA300	721	SR-120-1	R0052
SM100	R0056	SN76107N	C6056P	SP1484-1	236	SPS3900	724	SPSA301	716	SR-130-1	R0050
SM101	R0056	SN76242N	C6070P	SP1484-2	236	SPS3907	728	SPSA302	728	SR130-1	R0054
SM103	R0056	SN76243N	C6071P	SP1484-3	236	SPS3908	728	SPSA303	725	SR-131-1	R0050
SM105	R0050	SN76246N	C6057P	SP1484-4	236	SPS3909	721	SPSA309	54	SR132-1	R0050
SM110	R0052	SN76530P	C6079P	SP1484-5	236	SPS3912	736	SPSA310	716	SR135-1	R0054
SM120	R0052	SN76600	C6059P	SP1556	628	SPS3914	736	SPSA311	53	SR136	R0050
SM130	R0053	SN76642N	C6059P	SP1556-1	623	SPS3915	53	SPSA312	716	SR144	R0050
SM140	R0053	SN76650	C6076P	SP1556-2	623	SPS3923	728	SPSA313	737	SR145	R0052
SM150	R0054	SN76650N	C6076P	SP1556-3	624	SPS3924	715	SPSA314	715	SR150	R0055
SM-150	R0054	SN76651N	C6060P	SP1556-4	624	SPS3925	726	SPSA345	729	SR151	R0052
SM-150 005	134	SN76665N	C6063P	SP1563-2	624	SPS3926	724	SPSA354	57	SR152	R0050
SM150A	R0054	SN158093N	C1053P	SP1595BLK	623	SPS3927	715	SPSA355	717	SR153	R0160
SM150B	R0054	SN158099N	C1052P	SP1595BLU	624	SPS3929	719	SPSA356	737	SR154	R0002
SM150C	R0055	SN10G	R0056	SP1595GRN	624	SPS3930	728	SPSA359	736	SR200	R0053
SM150D	R0056	SOD20AS	R0162	SP1595RED	623	SPS3931	716	SPSA363	737	SR200B	R0053
SM150S	R0052	SOD30AL	R0090	SP1596BLK	623	SPS3936	725	SPSA365	716	SR205	R0052
SM150SS	R0052	SOD30AS	R0160	SP1596BLU	624	SPS3937	723	SPSA367	738	SR210	R0092
SM160	R0054	SOD30BL	R0090	SP1596GRN	624	SPS3938	721	SPSA368	736	SR220	R0092
SM170	R0055	SOD30BS	R0160	SP1596RED	623	SPS3940	721	SPSA382	730	SR390	R0054
SM180	R0055	SOD30CS	R0160	SP1600	230	SPS3948	723	SPSA446	736	SR-390	R0054
SM200	R0056	SOD30DL	R0090	SP1603-1	623	SPS3951	728	SPSA450	737	SR390-2	R0052
SM205	R0050	SOD30DS	R0160	SP1603-2	624	SPS3952	723	SPSA451	735	SR405	R0053
SM210	R0052	SOD50AL	R0090	SP1603-3	624	SPS3957C	724	SPSA452	716	SR453	R0220
SM217	1	SOD50AS	R0160	SP1619	230	SPS3967	726	SPSA453	729	SR454	R0220R
SM220	R0052	SOD50BL	R0090	SP1650	236	SPS3968	722	SPSA455	736	SR475	R0050
SM230	R0053	SOD50BS	R0160	SP1651	230	SPS3971	722	SPSA456	729	SR499	601
SM240	R0053	SOD50CL	R0090	SP1657	623	SPS3972	724	SPSA457	736	SR500	R0053
SM250	R0054	SOD50DL	R0090	SP1742	625	SPS3973	724	SPSA458	716	SR500B	R0053
SM260	R0054	SOD50DS	R0160	SP1775	625	SPS3987	715	SPSA459	728	SR507	R0052
SM270	R0055	SOD100AL	R0092	SP1801	232	SPS3988	715	SPSA460	715	SR605	R0054
SM280	R0055	SOD100AS	R0162	SP1817	236	SPS3990	715	SPSA472	737	SR0004	R9001
SM300	R0056	SOD100BL	R0092	SP1844	232	SPS3999	726	SPSA473	715	SR1000	R0220
SM505	R0050	SOD100BS	R0162	SP1927	230	SPS4002	718	SPSA476	738	SR1001	R0220R
SM510	R0052	SOD100CL	R0092	SP1938	232	SPS4003	721	SPSA480	715	SR1024	R0052
SM512	R0052	SOD100CS	R0162	SP1950	232	SPS4004	725	SPSA410	722	SR1104	R0050
SM513	R0053	SOD100DS	R0092	SP1994	237	SPS4005	723	SPSA413	715	SR1210	R0092
SM514	R0053	SOD200AL	R0092	SP2072	232	SPS4006	736	SPSA414	726	SR1266	R0054
SM515	R0054	SOD200BL	R0092	SP2076	232	SPS4007	715	SPSA415	716	SR1378-1	R0054
SM516	R0054	SOD200BS	R0162	SP2094	624	SPS4008	722	SPSA420	729	SR1378-2	R0053
SM517	R0055	SOD200CL	R0092	SP2155	232	SPS4009	726	SPS5006	737	SR1378.3	R0054
SM518	R0055	SOD200CS	R0162	SP2234	230	SPS4013	737	SPS5006-1	716	SR1422	R0050
SM520	R0056	SOD200DL	R0092	SP2247	230	SPS4014	715	SPS5006-2	737	SR1493	R0053
SM576-1	53	SOD200DS	R0162	SP2341	232	SPS4016	723	SPS5007	717	SR1549	R0054
SM576-2	53	SP-1.5A	R0050	SP2358	232	SPS4017	737	SPS5007-1	717	SR1598	R0050
SM705	R0050	SP26	230	SP2361	628	SPS4018	715	SPS5007-2	717	SR1643A	R0090
SM710	R0052	SP39	625	SP2361BLU	624	SPS4019	715	SPS5008	715	SR1650	R0055
SM-716	53	SP47	230	SP2361BRN	628	SPS4020	724	SPS5809	736	SR1668	R0054
SM720	R0052	SP62	625	SP2361GRN	624	SPS4025	716	SPS6109	57	SR-1668	R0054
SM730	R0053	SP70	716	SP2361ORN	623	SPS4026	715	SPS6111	738	SR1692	R0052
SM740	R0053	SP90	52	SP2361RED	628	SPS4027	715	SPS6112	738	SR1693	R0052
SM750	R0054	SP230	230	SP2361YEL	623	SPS4028	739	SPS6113	721	SR1694	R0053
SM760	R0054	SP334	G6001	SP2395	232	SPS4029	725	SPS7652	724	SR1695	R0053
SM770	R0055	SP404	623	SP2426	231	SPS4030	56	SQ7	641	SR1731-1	R0054
SM780	R0055	SP404T									

HEP Semiconductor Replacement Cross-References

DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	
SR1766	R0052	ST80	56	STX0264	631	SYL1608	253	T21G	135	T1041	230/232	
SR1984	R0052	ST82	56	STX0265	634	SYL1617	641	T22	135	T1042	254	
SR3010	R0052	ST106	231/233	STX0268	633	SYL1655	635	T22G	135	T1043	254	
SR3582	R0052	ST107	231/233	STX0269	634	SYL1665	254	T23	253	T1046	254	
SR3943	R0052	ST108	231/233	SU44	310	SYL1668	254	T23G	134	T1047	254	
SR6134	R0052	ST109	233	SU112	R0222	SYL1690	254	T24G	135	T1166	2	
SR6324	R0052	ST110	233	SU212	R0222	SYL1697	253	T26G	135	T1167	232	
SR6325	R0052	ST111	233	SUC650	Z0408	SYL1717	254	T27G	135	T1168	232	
SR6385	R0052	ST112	231/233	SUM6010	Z0408	SYL1750	641	T39	253	T1202	253	
SR6415	R0052	ST122	254	SUM6011	Z0408	SYL2189	3	T45	254	T1203	254	
SR6560	R0052	ST123	254	SUM6020	Z0408	SYL2248	254	T46	253	T1224	3	
SR6567	R0052	ST150	53	SUM6021	Z0408	SYL2249	254	T47	253	T1225	3	
SR6617	R0052	ST151	53	SV-9	R0602	SYL2250	254	T48	253	T1232	2	
SR-9001	R0055	ST152	53	SV-01A	R0051	SYL2300	254	T61	254	T1233	2	
SR9002	R9001	ST153	53	SV03	R0052	SYL3613	3	T72	254	T1250	3	
SR-9005	R0052	ST154	53	SV-04	R0602	SYL4131	56	T74	254	T1298	2	
SR75844	726	ST155	53	SV30	134	SYL4280	243	T78	253	T1299	2	
SS24	712	ST156	53	SV31	254	SYL4315	641	T82	254	T1300	254	
SS0001	254	ST157	53	SV-31	135	SYL4339	641	T83	253	T1305	2	
SS0002	254	ST160	53	SV122	Z0211	SZ3.6	Z0402	T84	253	T1306	2	
SS0003	254	ST161	53	SV123	Z0212	SZ4.7	Z0405	T87	253	T1310	254	
SS0004	254	ST162	53	SV133	Z0220	SZ5	Z0211	T95	253	T1314	2	
SS0005	632	ST163	53	SV135	Z0222	SZ5.6	Z0407	T99	253	T1326	253	
SS0007	135	ST280	R0137	SV137	Z0417	SZ6.2	Z0408	T100	253	T1327	253	
SS0008	135	ST301	254	SV138	Z0225	SZ6.2A	Z0408	T101	253	T1328	253	
SS0009	R0050	ST302	254	SV142	Z0228	SZ7	Z0215	T102A	253	T1334	253	
SS1122	S3012	ST303	254	SV144	Z0230	SZ-7	Z0409	T108	253	T1346	253	
SS1123	S3020	ST304	254	SV168	Z0231	SZ-9	Z0412	T109	253	T1352	254	
SS1606	708	ST332	254	SV1017	Z0415	SZ9.1	Z0412	T116	253	T1363	253	
SS1805	S3002	ST370	253	SV1019	Z0417	SZ10	Z0220	T126	253	T1364	253	
SS1806	S3003	ST382	254	SV1020	Z0418	SZ10C	Z2514	T127	253	T1387	3	
SS1906	708	ST501	50	SV4012	Z0415	SZ11	Z0414	T129	253	T1388	3	
SS1912	712	ST502	50	SV4012A	Z0415	SZ11.0	Z0414	T130	253	T1389	3	
SS2308	50	ST503	50	SV4014	Z0417	SZ12	Z0222	T131	253	T1390	3	
SS2409	237	ST504	50	SV4014A	Z0417	SZ12.0	Z0415	T-131	253	T1391	3	
SS2503	52	ST1242	51	SV4015	Z0418	SZ12C	Z2516	T139	232	T1400	3	
SS2504	50	ST1243	51	SV4015A	Z0418	SZ13	Z0416	T163	3	T1401	3	
SS3519	75	ST1244	51	SV4018	Z0228	SZ13.0	Z0417	T-163	3	T1402	3	
SS3526	75	ST1290	51	SV4018A	Z0228	SZ14	Z0416	T-203	734	T1403	3	
SS3534.4	802	ST1506	50	SV4027	Z0424	SZ15	Z0225	T222	707	T1416	54	
SS3586	801	ST1607	50	SV4027A	Z0424	SZ15.0	Z0418	T225	707	T1454	2	
SS3588	75	ST6110	52	SV4033	Z0426	SZ15C	Z2519	T-235	623	T1459	2	
SS3672	801	ST8014	51	SV4033A	Z0426	SZ18	Z0228	T-246	716	T1495	54	
SS3917	S3008	ST8033	51	SV4055	Z0432	SZ18C	Z2522	T-251	715	T15248RN	639	
SS3935	S3001	ST8034	51	SV4055A	Z0432	SZ20	Z0230	T255	54	T15248RN/RED	639	
SS4042	709	ST8035	52	SV4062	Z0433	SZ22C	Z2525	T-255	54	T1546	254	
SS6111	713	ST8036	52	SV4062A	Z0433	SZ22C	Z2528	T257	240	T1548	2	
SS9327	714	ST8065	51	SV4082	Z0436	SZ23C	Z2531	T261	240	T1573	254	
SS00010	R0050	ST8500	51	SV4082A	Z0436	SZ26A	Z2506	T271	241	T1574	254	
SSA43	52	ST8509	51	SV6255	Z0214	SZ62A	Z2508	T277	721	T1577	254	
SSA43A	52	STC1080	247	SV650	Z0214	SZ75A	Z2510	T278	3	T1583	254	
SSA46	52	STC1081	247	SV61125	Z0414	SZ91A	Z2513	T-278	3	T1618	3	
SSA48	52	STC1083	247	SV61150	Z0414	SZ119	Z0423	T-279	3	T1654	637	
SSiC0810	R0092	STC1084	247	SVM61	Z0214	SZ200-5	Z0211	T-279	3	T16548LU	637	
SSiC0820	R0094	STC4252	247	SVM111	Z0414	SZ200-8.2	Z0217	T287	244	T1657	3	
SSiC0840	R0096	STC4253	247	SVM601	Z0408	SZ-200-9V	Z0412	T-291	736	T1690	3	
SSiC0860	R0098	STC4401	241	SVM602	Z0408	SZ-200-15	Z0418	T-339	243	T1691	3	
SSiC0880	R0098	STC5610	242	SVM605	Z0214	SZ671-8	Z0415	T-340	242	T1692	3	
SSiC1110	R0092	STC5611	242	SVM1105	Z0414	SZ671-G	Z0415	T-342	243	T1737	3	
SSiC1120	R0094	STC5612	242	SVM6010	Z0214	SZ671-O	Z0414	T344	245	T1738	3	
SSiC1140	R0096	STPT15	P0002	SVM6011	Z0214	SZ671-W	Z0414	T-344	245	T1740	254	
SSiC1160	R0098	STPT45	312	SVM6020	Z0214	SZ961-8	Z0418	T-345	246	T1788	2	
SSiC1180	R0098	STPT53	P0001	SVM6021	Z0214	SZ961-R	Z0417	T348	638	T1814	3	
SSiC1210	R0092	STPT54	P0001	SVM11020	Z0414	SZ961-V	Z0416	T-348	638	T1831	3	
SSiC1220	R0094	STR106	R1751	SVM11021	Z0414	SZ961-Y	Z0417	T370	235	T1904	253	
SSiC1240	R0096	STR117	R1782	SW-1-101	R0052	SZ1200	Z0432	T381	719	T1909	54	
SSiC1260	R0098	STR125	R1782	SW05	R0052	SZ11763	Z0439	T386	50	T1961	253	
SSiC1280	R0098	STR130	R1751	SW-05	R0050	SZ79	Z0412	T-396	246	T2015	3	
SSiC1660A	R0098	STR206	R1751	SW-05-01	R0050	T1A	591	T399	54	T2016	3	
SSiC1960A	R0098	STR208	R1751	SW05A	R0053	T18	C6001	T-399	54	T2017	3	
SSiE1102	R0220	STR217	R1783	SW058	R0054	T1E	C6056P	T417	54	T2019	3	
SSiE1105	R0222	STR225	R1783	SW05C	R0055	T1F	C6060P	T422	S3023	T2020	2	
SSiE1110	R0222	STR230	R1751	SW05D	R0056	T1G	diode 134	T423	S3027	T2021	3	
SSiE1202	R0220	STR406	R1752	SW05S	R0052	T1J	594	T457-16	53	T2022	3	
SSiE1205	R0222	STR408	R1752	SW05SS	R0052	T1N	594	T458-16	53	T2024	2	
SSiE1210	R0222	STR417	R1785	SW303T	T	553	T1P31	701	51	T2025	2	
ST2 (GE)	311	STR425	R1785	SW304T	T	554	T1P31A	245	53	T2026	2	
ST01	50	STR430	R1752	SW306T	T	556	T1P33	S5003	53	T2159	253	
ST02	50	STX0010	241	SW308T	T	558	T1S18	56	53	T2172	253	
ST03	50	STX0011	242	SW353T	T	553	T1W	C6004	T464	F2007	253	
ST04	50	STX0013	245	SW354T	T	554	T1XM15	56	T472	53	T2322	2
ST05	50	STX0014	247	SW356T	T	556	T1XM17	56	T475	51	T2323	2
ST12	R0052	STX0015	240	SW358T	T	558	T1Z	C6056P	T576-1	719	T2324	2
ST14	R0053	STX0016	241	SW1013M	C3400P	T2A	R0131	C6068P	T611-1 (RCA)	245	T2364	253
ST16	R0054	STX0020	246	SW55	50	T2C	R0132	C6056P	T612-1 (RCA)	245	T2379	3
ST18	R0055	STX0022	248	SW751	R0131	T2E	C6010	T800X	R0055	3	T2384	3
ST28A	253	STX0026	701	SW752	R0132	T2G	134	T811	3	T2439	253	
ST28B	253	STX0027	704	SW753	R0134	T2J	C6062P	T814	254	T2440	253	
ST28C	253	STX0028	706	SW754	R0134	T2K	C6087P	T815	254	T2441	253	
ST37C	253	STX0029	702	SW3001	56	T2L	C6016	T1000	254	T2788	635	
ST37D	253	STX0030	702	SW3702	716	T3G	134	T1000X	R0056	T2878	253	
ST37E	253	STX0032	704	SW3709	729	T7	134	T1001	254	T2896	3	
ST41	Z0206	STX0033	640	SW3711	728	T8G	134	T1003	254	T2945	3	
ST50	50	STX0034	639	SW3825	50	T9	134	T1004	254	T2946	3	
ST51	50	STX0036	635	SW3826	738	T9G	134	T1005	254	T3005	253	
ST53	50	STX0085	636	SYL105	253	T01-101	725	T1006	254	T3536	714	
ST54	50	STX0087	635	SYL106	253	T01-104	54	T1007	254	T3539	721	
ST55	50	STX0089	635	SYL107	254	T01-105	724	T1007 (Zenith)	730	T3568 (RCA)	718	
ST56	50	STX0090	636	SYL108	254	T11	135	T1008	254	T3601 (RCA)	721	
ST57	50	STX0096	633	SYL109	232	T12	134	T1008-834	55	T6028	253	
ST58	50	STX0099	634	SYL152	54	T12G	134	T1010	254	T6029	253	
ST59	50	STX0104	634	SYL160	253	T13	135	T1011	2	T6030	253	
ST60	56	STX0105	633	SYL1326	641	T13G	135	T1012	2	T6031	253	
ST61	56	STX0110	633	SYL1327	641	T14	135	T1013	254	T6032	253	
ST62	56	STX0114	631	SYL1380	641	T14G	135	T1023	254	T10010	254	
ST63	50	STX0121	630	SYL1408	641	T17A	Z0410	T1028	2	T11618	253	
ST64	50	STX0123	632	SYL1454	641	T18	134	T1033	2	T13000	254	
ST70	56	STX0224	630	SYL1468	641	T20	134	T1034	2	T21237	134	
ST71	56	STX0260	631	SYL1583	254	T20G	134	T1038	2	T21238	135	
ST72	56	STX0263	631	SYL1591	641	T21	135	T1040	230/232	T21333	R0050	

HEP Semiconductor Replacement Cross-References

DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
T21334	Z0412	TC3123036900	55	TH400	R0053	TIP32C	S5005	TIX810	two 729	TM17	R0162
T21601	R2502	TC3123037111	50	TH600	R0054	TIP33	S5001	TIX811	two 729	TM18	R0162
T30155-1	R0052	TC3123037222	55	TH800	R0055	TIP33A	S5001	TIX812	two 716	TM19	R0162
T42692-1R	R9002	TC3123037412	55	TH801	R0052	TIP33B	S5004	TIX813	two 716	TM21	R0132
T42692-001	R9001	TC3123041557	254	TH802	R0052	TIP33C	S5004	TIX814	two 716	TM22	R0132
T50339A	254	TCR3	R1241	TH803	R0053	TIP34	S5002	TIX876	56	TM23	R0162
T50631	632	TCR8	R1241	TH804	R0053	TIP34A	S5002	TIX880	56	TM24	R0162
T50818	639	TCR13	R1243	TH805	R0054	TIP34B	S5005	TIX888	S3001	TM27	R0162
T50931B	632	TCR18	R1242	TH806	R0054	TIP34C	S5005	TIX890	52	TM28	R0162
T509338	254	TCR23	R1243	TH808	R0055	TIP41	S5001	TIX891	52	TM29	R0162
T51304	238	TCR28	R1243	TH810	R0056	TIP41A	S5001	TIX896	641	TM31	R0134
T51573A	632	TCR38	R1244	TH1000	R0056	TIP41B	S5004	TIX1392	S3001	TM41	R0134
T52054	635	TCR48	R1245	TI24A	724	TIP41C	S5004	TIX1393	S3001	TM42	R0134
T52159	254	TCR50	R1241	TI24B	725	TIP42	S5008	TIX3032	3	TM51	R0136
T59235A	54	TCR51	R1242	TI25A	722	TIP42A	S5002	TIX3033	S3002	TM52	R0136
T59247	254	TCR52	R1243	TI25B	723	TIP42B	S5005	TIX3035	S3002	TM55	R0136
T59249	254	TCR53	R1243	TI40A0	R1241	TIP42C	S5005	TIXA01	254	TM61	R0136
T59276	641	TCR54	R1244	TI40A1	R1242	TIR01	R0052	TIXA02	254	TM62	R0136
T59277	641	TCR55	R1244	TI40A2	R1243	TIR02	R0052	TIXA03	635	TM65	R0136
T1003521	718	TCR56	R1245	TI40A3	R1244	TIR03	R0053	TIXA04	635	TM84	R0097
T1004671	736	TCR70	R1241	TI40A4	R1245	TIR04	R0053	TIXA05	635	TM86	R0055
T1008834	55	TCR71	R1242	TI42	311	TIR05	R0054	TIXD747	Z0402	TM104	R0098
TA50	R0050	TCR72	R1243	TI54A	724	TIR06	R0054	TIXD753	Z0408	TM01	Z0211
TA100	R0052	TCR73	R1243	TI54B	725	TIR07	R0055	TIXD758	Z0220	TM01A	Z0211
TA200	R0052	TCR74	R1244	TI54C	725	TIR08	R0055	TIXM01	3	TM02	Z0212
TA300	R0053	TCR75	R1244	TI54D	726	TIR09	R0056	TIXM02	3	TM02A	Z0212
TA400	R0053	TCR76	R1245	TI54E	724	TIR10	R0056	TIXM03	3	TM03	Z0214
TA500	R0054	TCR505	R1241	TI56	R0050	TIS03	52	TIXM04	3	TM03A	Z0214
TA600	R0054	TCR510	R1241	TI136	R1243	TIS04	52	TIXM05	3	TM04	Z0215
TA800	R0055	TCR730	R1241	TI137	R1244	TIS14	801	TIXM06	3	TM04A	Z0215
TA1000	R0056	TCR731	R1242	TI138	R1245	TIS18	56	TIXM07	3	TM06	Z0217
TA1062	R0052	TCR732	R1243	TI363	3	TIS22	50	TIXM08	636	TM06A	Z0217
TA1063	R0052	TCR733	R1244	TI364	3	TIS23	50	TIXM10	635	TM07	Z0219
TA1064	R0052	TCR734	R1245	TI365	3	TIS34	802	TIXM11	3	TM07A	Z0219
TA1575	254	TCR742	R1241	TI366	232	TIS37	52	TIXM14	2	TM08	Z0220
TA15758	253	TCR743	R1242	TI366A	232	TIS38	52	TIXM15	2	TM08A	Z0220
TA1614	232	TCR744	R1243	TI367	232	TIS39	S3001	TIXM16	2	TM10	Z0222
TA1628	3	TCR745	R1243	TI367A	232	TIS42	802	TIXM17	3	TM10A	Z0222
TA1650A	2	TCR746	R1244	TI368	232	TIS44	727	TIXM101	3	TN56	50
TA16558	253	TCR747	R1244	TI368A	232	TIS45	50	TIXM201	3	TN60	50
TA1658	3	TCR748	R1245	TI369	232	TI546	50	TIXM202	3	TN62	50
TA1659	3	TCR1005	R1242	TI369A	232	TI547	S0004	TIXM203	3	TN64	50
TA1660	3	TCR1010	R1242	TI370	230	TI548	50	TIXM204	3	TN63	50
TA1662	3	TCR1505	R1243	TI370A	230	TI549	50	TIXM205	3	TN63	50
TA1682	232	TCR1510	R1243	TI387	3	TI550	52	TIXM206	3	TN63	50
TA1682A	232	TCR2005	R1243	TI388	3	TI551	50	TIXS28	56	TN61702	716
TA1697	254	TCR2010	R1243	TI389	3	TI552	S0004	TIXS29	56	TN61703	715
TA1704	253	TCR2505	R1244	TI390	3	TI553	52	TIXS30	56	TNJ60066	3
TA1705	232	TCR2510	R1244	TI391	3	TI554	52	TIXS31	56	TNJ60070	55
TA1706	253	TCR3005	R1244	TI395	3	TI555	S0004	TK5	R0050	TNJ60071	55
TA1730	254	TCR3010	R1244	TI397	3	TI556	709	TK10	R0052	TNJ60073	55
TA1731	3	TCR3505	R1245	TI398	3	TI557	709	TK11	R0052	TNJ60074	55
TA1755	2	TCR3510	R1245	TI399	3	TI558	802	TK20	R0052	TNJ60075	254
TA1756	2	TCR4005	R1245	TI400	3	TI559	802	TK21	R0052	TNJ60079	254
TA1757	3	TCR4010	R1245	TI401	3	TI560	54	TK23C	3	TNJ60080	254
TA1763	253	T-E1011	R0054	TI402	3	TI561	54	TK30	R0053	TNJ60604	720
TA1763A	253	T-E1014	135	TI403	3	TI562	56	TK33C	641	TNJ60611	633
TA1765	232	T-E1024D	R0054	TI407	56	TI563	56	TK40	R0053	TNJ60612	238
TA1766	232	T-E1029	R0054	TI408	56	TI564	56	TK41	R0053	TNJ61217	56
TA1773	232	T-E1029D	R0054	TI409	56	TI583	56	TK41C	3	TNJ61218	56
TA1778	253	T-E1031	134	TI410	56	TI584	56	TK42C	3	TNJ61220	50
TA1782	253	T-E1061A	R9001	TI411	55	TI586	56	TK45C	3	TNJ61221	254
TA1783	253	T-E1064	R0054	TI412	735	TI587	56	TK50	R0054	TNJ61222	254
TA1794	232	T-E1086	R9001	TI415	55	TI588	802	TK60	R0054	TNJ61282	254
TA1796	3	T-E1086A	R9001	TI416	55	TI590	53	TK61	R0054	TNJ61671	641
TA1797	3	T-E1088	R0054	TI417	55	TI591	51	TK400	R0053	TNJ61672	807
TA1798	3	T-E1089	R0054	TI418	55	TI592	53	TK600	R0054	TNJ61673	801
TA1828	3	T-E1090	R0052	TI419	55	TI593	51	TK705M	R9001	TNJ61674	238
TA1830	2	T-E1098	134	TI480	53	TI594	735	TK800	R0055	TNJ61679	56
TA1846	3	T-E1102A	R0054	TI482	53	TI597	735	TK1000	R0056	TNJ70478-1	50
TA1847	3	T-E1105	134	TI483	53	TI598	S0001	TK1228-1001	639	TNJ70537	56
TA1860	3	T-E1106	Z0416	TI484	53	TI599	S0005	TK1228-1002	250	TNJ70539	243
TA1861	3	T-E1108	R0054	TI485	50	TI600	S0005	TK1228-1003	250	TNJ70540	245
TA1881	232	T-E1118	R0600	TI492	53	TI610	S0005	TK1228-1004	250	TNJ70541	643
TA1890	232	T-E1119	R0050	TI493	53	TI614	715	TK1228-1005	250	TO1-101	726
TA1891	232	T-E1121	R0050	TI494	53	TI615	56	TK1228-1006	250	TO1-104	54
TA1928A	235	T-E1124	R0056	TI495	53	TI616	S0001	TK1228-1007	250	TO1-105	55
TA2083	234	T-E1138	R0602	TI496	53	TI617	736	TK1228-1008	50	TO003	3
TA2322	3	T-E1144	R0054	TI904	56	TI618	56	TK1228-1009	50	TO004	3
TA2401	709	T-E1148	R0050	TI3010	2	TI619	S3001	TK1228-1010	54	TO005	254
TA2442	R1304	T-E1153	R0052	TI3011	2	TI610	S3001	TK1228-1011	54	TO012	232
TA2444	R1304	T-E1157	R0054	TI3012	232	TI611	S3001	TK1228-1012	54	TO014	254
TA2503	56	T-E1176	R9001	TI3027	230/232	TI612	716	TKF5	R0050	TO015	232
TA2911	243	TF30	254	TI3028	232	TI613	S0004	TKF10	R0052	TO033	55
TA5814	C8063P	TF49	254	TI3029	232	TI614	S0004	TKF20	R0052	TO038	55
TA7050M	C8069G	TF65	253	TI403	253	TI619	3	TKF40	R0053	TO039	55
TA7053M	C8067G	TF65/30	253	TI404	254	TI622	3	TKF60	R0054	TO040	55
TA7311	S5004	TF66	253	TI405	253	TIX91	637	TKF80	R0055	TO041	254
TA7312	S5004	TF66/30	253	TI406	R1751	TIX440	R0160	TKF100	R0056	TO101	254
TA7313	S5004	TF66/60	253	TI407	R1752	TIX441	R0162	TL1	R0050	TO102	254
TA7314	S5004	TF70	641	TI423	P2002	TIX442	R0162	TL2	R0050	TO103	254
TA7315	S5004	TF71	641	TI424	P2002	TIX613	two 729	TL11	R0052	TO104	254
TA7316	S5004	TF72	641	TI425	P0002	TIX614	two 729	TL12	R0052	TP101	R0052
TA7318	S5004	TF75	254	TI426	P2004	TIX615	two 729	TL21	R0052	TP201	R0052
TA7520	700	TF77	254	TI427	S5000	TIX616	two 728	TL22	R0052	TP302	R0053
T85	R0090	TF78	230	TI428	245	TIX617	two 728	TL31	R0053	TP402	R0053
T8100	R0092	TF78/30	230	TI429	244	TIX618	two 728	TL32	R0053	TP4123	724
T8200	R0092	TF80/302	232	TI430	245	TIX619	two 715	TL41	R0053	TP4124	53
TC0.09m22/1	R0054	TF7473E	C3073P	TI29A	S5003	TIX620	two 715	TL42	R0053	TP4125	52
TC27A5A	Z0424	TF66/60	253	TI29B	S5000	TIX621	two 715	TL51	R0054	TP4126	57
TC33A5A	Z0426	TG48	135	TI30	S3027	TIX622	two 715	TL61	R0054	TP56512	729
TC50	R0090	TG7400E	C3000P	TI30A	S3031	TIX623	two 715	TM1	R0130	TP56513	728
TC62A58	Z0433	TG7401E	C3001P	TI30B	S3031	TIX624	two 715	TM2	R0160	TP56514	728
TC82A58	Z0436	TG7402E	C3002P	TI31	245	TIX712	50	TM5	R0160	TP56515	728
TC100	R0092	TG7410E	C3010P	TI31A	245	TIX804	715	TM7	R0160	TP56516	715
TC110A58	Z0439	TG7420E	C3020P	TI31B	S5000	TIX805	716	TM8	R0160	TP56517	715
TC200	R0092	TG7430E	C3030P	TI31C	S5004	TIX806	two 728	TM9	R0160	TP56518	57
TC311206000	135	TG7440E	C3040P	TI32	246	TIX807	two 728	TM11	R0131	TP56519	57
TC3112319300	R0052	TG7450E	C3050P	TI32A	S5007	TIX808	two 728	TM12	R0131	TP56520	728
TC3123036722	53	T-H2SC313									

HEP Semiconductor Replacement Cross-References

DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
TPS6522	57	TR-166 (Olson)	3	TR-8025	724	T5673A	2	TV24370	630	TVS-2SC563A	709
TPS6523	57	TR167	641	TR-8026	715	T56738	2	TV24372	55	TVS2SC640	57
T-Q5053	56	TR-167 (Olson)	52	TR-8027	802	T5739	254	TV24380	56	TVS2SC564R	57
T-Q5053C	56	TR-168 (Olson)	636	TR-8028	56	T57398	254	TV24382	709	TVS-2SC642	240
T-Q5055	56	TR-169 (Olson)	250	TR-8029	56	T5740	254	TV24383	713	TVS-2SC605	56
T-Q5057	240	TR-170 (Olson)	254	TR-8030	56	T5765	254	TV24385	56	TVS-2SC606	56
T-Q5063	712	TR-171	709	TR-8031	56	T51007	254	TV24387	720	TVS2SC645	56
T-Q5071	709	TR-172 (Olson)	230	TR-8032	56	T51266	254	TV24399	709	TVS-2SC645	53
T-Q5073	75	TR-173 (Olson)	two 230	TR-8034	730	T51657	232	TV24435	712	TVS2SC645A	56
T-Q5075	240	TR-174 (Olson)	231	TR-8035	738	T51727	254	TV24436	56	TVS-2SC645A	56
T-Q5077	52	TR-175 (Olson)	240	TR-8036	736	T51728	254	TV24437	56	TVS2SC645H	56
T-Q5081	714	TR-176 (Olson)	247	TR-8037	708	T51792	250	TV24438	56	TVS-2SC645B	53
T-Q5078	713	TR-177 (Olson)	two 247	TR-8038	720	T5C-499	737	TV24439	53	TVS2SC645C	56
T-Q5079	56	TR-178 (Olson)	232	TR-8039	725	T5C695	721	TV24454	53	TVS2SC645C	53
T-Q5080	241	TR-179 (Olson)	two 232	TR-8040	726	T5C-722	736	TV24458	53	TVS-2SC646	247
T-Q5082	712	TR-180 (Olson)	241	TR-8042	738	TV4	R0053	TV24468	235	TVS2SC647	740
T-Q5083	740	TR-181 (Olson)	two 241	TR-8043	734	TV8	R0055	TV24487	241	TVS2SC683	56
T-Q5084	740	TR182	641	TR9100-18	55	TV15A	709	TV24495	52	TVS-2SC683	56
T-Q5086	738	TR-182 (Olson)	246	TR01051-5	two 738	TV158	709	TV24499	713	TVS-2SC687	707
T-Q5087	716	TR183	641	TR01054-7	243	TV-158	718	TV24554	R0050	TVS2SC696	S3002
T-Q5099	736	TR-183 (Olson)	235	TR01060-7	S7000	TV17	54	TV24571	54	TVS2SC762	56
TR-1R31	54	TR184	641	TR02051-1	717	TV-17	54	TV24573	56	TVS-2SC828	55
TR-1R33	50	TR-184 (Olson)	642	TR02051-3	717	TV18	54	TV24574	50	TVS2SC828A	728
TR-2R31	54	TR-185 (Olson)	706	TR02051-5	717	TV-18	54	TV24576	50	TVS2SC828P	56
TR-2R33	723	TR-186 (Olson)	707	TR02051-6	717	TV19	713	TV24582	R0053	TVS2SC828Q	56
TR-3R31	54	TR-187 (Olson)	740	TR02053-5	S3031	TV-19	713	TV24589	56	TVS2SC828R	56
TR-3R33	723	TR-188 (Olson)	241	TR02053-7	S3031	TV20	718	TV24599	254	TVS2SC8298	50
TR-4R31	53	TR-189 (Olson)	238	TR02054-7	242	TV-20	718	TV24617	R0055	TVS2SC840	240
TR-4R33	54	TR193	641	TR02060-7	S7001	TV22	S3021	TV24648	R0050	TVS-2SC840	241
TR-5R31	243	TR194	641	TR09004	594	TV23	243	TV24651	R0050	TVS2SC840A	240
TR-5R33	54	TR200	R0253	TR09007	C5061P	TV29	242	TV24655	719	TVS-2SC840A	241
TR-6R33	54	TR211	641	TR09010	C6059P	TV32	54	TV24678	232	TVS2SC840C	241
TR6S	Z0408	TR212	641	TR09011	595	TV33	709	TV24684	56	TVS2SC901	707
TR-7R31	243	TR213	641	TR35144	232	TV35	709	TV24803	R0053	TVS2SC968	243
TR7SA	Z0408	TR214	641	TR35524	232	TV36	54	TV24806	56	TVS2SC5640	57
TR7S8	Z0411	TR216	641	TR38117	632	TV37	50	TV24941	R0602	TVS2SD226A	703
TR-9S	Z0412	TR252	R0254	TR310025	636	TV38	50	TV24942	R0056	TVS2SD226G	703
TR-9S8	Z0412	TR302	R0254	TR310026	250	TV39	54	TV24945	241	TVS2SD226P	703
TR-01	230/232	TR320	254	TR310065	639	TV40	50	TV24979	R0050	TVS58-2-H5W	R0054
TR-01 (Penncrest)	243	TR321	254	TR310075	253	TV41	243	TV24983	641	TVS10D1	R0054
TR-018 (Penncrest)	54	TR323	254	TR310159	633	TV42	243	TV24984	254	TVS10D2	R0054
TR-01C (Penncrest)	54	TR331	2	TR310224	637	TV43	50	TV24985	R9002	TVS10D8	R0055
TR-01E (Penncrest)	243	TR332	254	TR310225	631	TV44	242	TV24987	R9001	TVS10D8	R0055
TR-02	230	TR333	232	TR310231	50	TV45	243	TV3C3	R0054	TVS-828A	728
TR-02E	R0052	TR334	233	TR310243	53	TV46	50	TVH-526	R9001	TVS-A910	R0054
TR-03	231	TR352	R0255	TR310244	56	TV-46	50	TVH538	R9001	TVSAN155	Z0426
TR-03 (Penncrest)	241	TR383	254	TR310245	53	TV47	254	TVM-511	R0054	TVSAN241	C6063P
TR-04	254	TR402	R0255	TR310249	56	TV49	S3021	TVM-526	R9001	TVSAW01-11	Z0414
TR-04C (Penncrest)	242	TR482	253	TR310250	56	TV50	709	TVM-530	R9001	TVSBAZ13	R0600
TR-05	251	TR501	R0166	TR310251	253	TV51	243	TVM535	R0056	TVSBB10	R0056
TR-06	250	TR502	R0256	TR310252	254	TV52	243	TVM538	R9001	TVSCS1255H	243
TR-06 (Penncrest)	54	TR508	253	TR310255	253	TV53	243	TVM546	R0056	TVS2CS1255HF	242
TR-07	2	TR601	R0166	TR320007	135	TV54	709	TVM550	R0054	TVS-CS1255HF	53
TR-07 (Penncrest)	243	TR602	R0257	TR320039	134	TV56	50	TVM554	R9001	TVS2CS1256HG	242
TR-08	641	TR650	253	TR-320054	R2502	TV57	721	TVM-EH2C	R0054	TVS-CS1256HG	51
TR-08 (Penncrest)	242	TR653	253	TR330027	R0050	TV58	721	TVMHS151b	R0054	TVS-C51303	S3031
TR-09	641	TR721	253	TR330028	Z0220	TV59	243	TVM-K-112C	R9001	TVSDG1NR	R0054
TR-10	641	TR722	253	TRAPLC711	733	TV60	721	TVMLOO.09m1115	R0054	TVS-DG1NR	R0054
TR-11	639	TR760	3	TRAPLC871	55	TV61	253	TVM-PT6d22/1	R0054	TVSDS1K	R0054
TR-12	3	TR761	3	TRAPLC1013	S3020	TV62	S0001	TVM-TCO.2P11/2	R0054	TVSD51K	R0054
TR12SA	Z0417	TR762	3	TR-C44	636	TV109	245	TVMTC00921-3	R9003	TVS-DS-1K	R0054
TR-13	3	TR763	254	TR-C45	253	TV110	235	TVM-TK705M	R9001	TVS-DS-1M	R0054
TR-14	251	TR0259-6	248	TR-C70	253	TV111	235	TVS0A70	135	TVS-D52K	R0054
TR-15	253	TR1000	S3031	TR-C71	254	TV112	245	TVS-0A70	135	TVS-ET1P	R0054
TR-16	250	TR1001	S3020	TR-C72	254	TV113	240	TVS0A71	R0054	TVSFG2PC	R3012
TR-17	3	TR1030-1	717	TRC-P4	R9001	TV1000	636	TVS0A90	135	TVS-FR1MD	R0054
TR-17A	3	TR1030-2	717	TRR6	Z0408	TV2419	R0054	TVS-0A90	135	TVS-FR-1P	R0054
TR-18	2	TR1031-1	S0001	TRS3016LC	240	TV2429	633	TVS0A91	134	TVSFR1PC	R0054
TR-19	51	TR1031-2	S0001	TR54016LC	240	TV2434	635	TVS-0A91	135	TVSFR2-02C	R3012
TR-20	52	TR1032-1	S3003	TR55016LC	240	TV2455	3	TVS-1N82G	R0700	TVSFR2-06	R0053
TR-21	53	TR1032-2	S3003	TR56016LC	240	TV24102	720	TVS-1518	56	TVS-FR2M	R0054
TR-22	50	TR1032-3	S3003	TR-U1650E	F0021	TV24103	R0700	TVS15750	R0700	TVS-FR2P	R0050
TR-23	240	TR1032-6	S3003	TR-U1835E	F0021	TV24122	134	TVS-15750	R0700	TVSFR2PC	R0054
TR-24	246	TR1033-1	714	TS1	R0052	TV24137	3	TVS-151893	R0050	TVS-FR10	R0054
TR-25	245	TR1033-2	714	TS2	R0052	TV24142	232	TVS151906	two R0055	TVS-FR11N	R0054
TR-26	247	TR1033-3	714	TS4	R0053	TV24154	254	TVS-151922	R0050	TVSFT1P	R0054
TR-27	235	TR1033-4	714	TS6	R0054	TV24156	254	TVS151950	two R0055	TVSFT1P	R0054
TR-28	708	TR1033-5	714	TS8	R0055	TV24158	3	TVS-2SA385	250	TVS-FR10	R0054
TR-29	705	TR1033-6	714	TS05	R0050	TV24160	709	TVS-2SA385L	250	TVS-FU1N	R0054
TR-30	57	TR1035-3	two 738	TS162	254	TV24161	709	TVS2SA543	242	TVSHFSD12C	R0054
TR34	253	TR1036-1	S5002	TS163	254	TV24164	706	TVS2SA546	S3031	TVSHS7/1	R3000
TR43	253	TR1036-2	S5002	TS164	254	TV24167	R0053	TVS2SA564	57	TVSJA1200	738
TR-438	232	TR1036-3	S5002	TS165	254	TV24169	R0053	TVS2SA564A	57	TVSK-112C	R9001
TR44	253	TR1037-1	S5001	TS166	254	TV24172	3	TVS2SA564C	57	TVS-K112C	R9001
TR45	253	TR1037-2	S5001	TS173	232	TV24189	254	TVS2SA564D	57	TVS-K2Cdp1/2/2	R0054
TR50	642	TR1037-3	S5001	TS176	232	TV24190	R9001	TVS2SA564E	57	TVSMA26	R0602
TR51	3	TR1038-4	248	TS-337	Z0415	TV24191	R0053	TVS-2S8126F	232	TVSRD4AM	Z0402
TR52	2	TR1038-5	S5005	TS601	2	TV24194	254	TVS2S8126G	232	TVSRD5A	Z0406
TR53	253	TR1038-6	S5005	TS602	2	TV24200	R0052	TVS-2S8126V	232	TVSRD6A	Z0407
TR54	254	TR1039-4	704	TS603	254	TV24209	56	TVS2SB171	254	TVSRD11A	Z0417
TR55	253	TR1039-5	644	TS604	254	TV24210	56	TVS-2S8171	254	TVS-RD29AN	Z0426
TR56	230	TR1039-6	704	TS609	233	TV24211	241	TVS-2S8171A	254	TVS-11802-03CR	R0054
TR57	231	TR1120	R0130	TS610	230/232	TV24214	716	TVS2SB1718	254	TVSS3G4	R0056
TR62	3	TR1121	R0131	TS612	230/232	TV24215	53	TVS-2S8172F	254	TVSS8-2T	R0090
TR71	254	TR1122	R0132	TS613	230/232	TV24216	54	TVS-2S8176	632	TVSSC15	R2502
TR72	254	TR1123	R0134	TS614	230/232	TV24226	R9001	TVS2SB449F	230	TVSD18	R0056
TR81	254	TR1124	R0134	TS615	2	TV24232	R0053	TVS2SC58A	712	TVSSD-1Y	R0050
TR100	R0251	TR1125	R0136	TS616	254	TV24234	R0053	TVS-2SC58A	712	TVSSD82A	R0700
TR150	R0253	TR1126	R0136	TS617	254	TV24237	R0053	TVS-2SC287A	56	TVS-SF-1	R0056
TR151	R0162	TR1128	R0137	TS618	254	TV24266	R0054	TVS2SC288A	56	TVSSN76665	C6063P
TR152	R0253	TR1130	R0138	TS619	254	TV24273	135	TVS-2SC313	56	TVSUFSD1	R0054
TR-157 (Olson)	254	TR151-2-80	56	TS620	2	TV24278	R0050	TVS2SC466	56	TVSUFSD-1	R3012
TR-158 (Olson)	254	TR15004-4	722	TS621	2	TV24281	50	TVS-2SC466	56	TVS-UFSD-1	R0054
TR-159 (Olson)	641	TR									

HEP Semiconductor Replacement Cross-References

DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
TW30	R0053	U6A90959X	C1052P	UT18	R0052	UZ4812	Z2516	VR15E	Z3516	X32C5111	S0001
TW40	R0053	U6A993059X	C1030P	UT21	R0050	UZ5210	Z2545	VR15F	Z3519	X42	2
TW50	R0054	U6A993259X	C1032P	UT22	R0052	UZ5212	Z2547	VR18E	Z3519	X137	231/233
TW60	R0054	U6A993359X	C1033P	UT23	R0052	UZ5310	Z2545	VR18F	Z2522	X1000	237
TW80	R0055	U6A993659X	C1036P	UT24	R0052	UZ5312	Z2547	VR22E	Z3520	X1005	232
TW100	R0056	U6A994459X	C1044P	UT25	R0053	UZ5807	Z2510	VR22F	Z2525	XA101	3
TWV	R0050	U6A994559X	C1045P	UT26	R0053	UZ5809	Z2513	VR27A	Z0424	XA102	3
TX1N645	R0053	U6A994659X	C1046P	UT27	R0053	UZ5810	Z2514	VR27A	Z0424	XA111	3
TX1N647	R0054	U6A996259X	C1062P	UT111	R0050	UZ5812	Z2516	VR27B	Z0424	XA112	3
TX1N3190	R0053	U6B744159X	C3041P	UT112	R0052	UZ5815	Z2519	VR27E	Z3522	XA121	R0050
TX1N3191	R0054	U9T7741393	C6052P	UT113	R0052	UZ5818	Z2522	VR27F	Z2528	XA122	254
TX102-1	54	U110	803	UT114	R0053	UZ5822	Z2525	VR33	Z0426	XA123	3
TX102-2	54	U112	803	UT115	R0053	UZ5827	Z2528	VR33A	Z0426	XA124	3
TX-104-3	254	U114	803	UT117	R0054	UZ5833	Z2531	VR33B	Z0426	XA126	3
TX-106-1	254	U146	803	UT118	R0054	UZ5856	Z2537	VR56	Z0432	XA131	3
TX-107-3	721	U148	803	UT119	R0055	UZ5907	Z2510	VR56A	Z0432	XA494	52
TX-107-4	53	U149	803	UT120	R0056	UZ5909	Z2513	VR56B	Z0432	XA495	708
TX-107-12	721	U1177	801	UT123AA	R0160	UZ5910	Z2514	VR62	Z0433	XA495AC	52
TX-107-13	240	U1178	801	UT123	R0053	UZ5912	Z2516	VR62A	Z0433	XA495C	708
TX-111-1	240	U1180	801	UT212	R0053	UZ5915	Z2519	VR62B	Z0433	XA701	641
TX-119-1	737	U1181	801	UT213	R0053	UZ5918	Z2522	VR82	Z0436	XA702	641
TX120	721	U1285	801	UT214	R0054	UZ5922	Z2525	VR82A	Z0436	XA703	641
TX121	717	U1322	801	UT215	R0054	UZ5927	Z2528	VR82B	Z0436	XB1	254
TX122	715	U1323	801	UT221	R0052	UZ5933	Z2531	VR110	Z0439	XB2	254
TX-122-1	715	U1324	801	UT222	R0052	UZ5956	Z2537	VR110B	Z0439	XB3	254
TX123	S9100	U1650E	F0021	UT223	R0052	V0-6	R0054	VR110B	Z0439	XB4	641
TX123-1	S9100	U1835E	F0021	UT224	R0052	V0-6C	R0054	V3500	R0166	XB5	230/232
TX124-1	53	U513991121X	581	UT225	R0053	V6/2R	253	V5600	R0166	XB7	230/232
TX125-1	51	UA703	C6001	UT226	R0053	V6/2RC	253	W1A	801	XB8	3
TX128-1	243	UA729	595	UT227	R0053	V6/2RJ	253	W1B	801	XB9	2
TX134-1	242	UA732	594	UT228	R0053	V6/4R	253	W1C	310	XB10	2
TX135	243	UA737E	C6067G	UT229	R0054	V6/4RC	253	W1D	621	XB102	254
TX-135	243	UA739	C6055L	UT231	R0054	V6/4RJ	254	W1E	F2005	XB103	254
TX136	242	UA746	C6057P	UT232	R0054	V6/8R	254	W1H	310	XB104	3
TX-136	242	UA767	C6056P	UT233	R0054	V6/8RJ	254	W1K	R1001	XB112	254
TX138	243	UA780	C6070P	UT234	R0052	V03C	R0052	W1L	R1005	XB113	254
TX-138	243	UA781	C6071P	UT235	R0053	V03-C	R0054	W1M	310	XC101	254
TX139	242	UA796	C6050G	UT236	R0052	V06	R0050	W1N	P1001	XC121	254
TX-139	242	UA910	580	UT237	R0053	V06A	R0050	W1P	802	XC155	230/232
TX140	243	UA911	581	UT238	R0054	V06B	R0050	W1R	R1005	XC156	230/232
TX-140	243	UA914	584	UT242	R0052	V06C	R0050	W1S	S9001	XC371	53
TX141	721	UA923	572	UT249	R0052	V06E	R0052	W1U	F2004	XC372	55
TX-141	243	UB747559X	C3075P	UT251	R0051	V06G	R0054	W06A	R0050	XC373	55
TX-145	R1221	UC20	801	UT252	R0092	V10/1SJ	635	W06B	R0052	XC374	55
TZ9-1	Z0412	UC100	801	UT254	R0094	V10/2S	253	W55	Z0432	XJ13	254
TZ9-1A	Z0412	UC105	801	UT255	R0096	V10/2SJ	253	WC19862	641	XJ71	2
TZ9-1B	Z0412	UC110	801	UT257	R0096	V15/10DP	230	WC19862A	254	KN12A	230
TZ9-1C	Z0412	UC115	801	UT258	R0097	V15/20DP	230	WC19863	254	KN12B	230
TZ12	Z0415	UC120	801	UT261	R0091	V15/20R	3	WC19864	254	KN12C	230
TZ12A	Z0415	UC125	801	UT262	R0092	V15/30DP	230	WG1012	134	KN12E	230
TZ12B	Z0415	UC410	803	UT264	R0094	V15C200/80-VI	R0054	WG-1012	135	XS10	R0052
TZ12C	Z0415	UC734E	802	UT265	R0096	V30/10DP	230	WM1146T	590	XS16	R0053
TZ15	Z0418	UC900	571	UT267	R0096	V30/20DP	230	WO-6A	R0050	XS16A	R0053
TZ15A	Z0418	UC1100	57	UT268	R0097	V30/30DP	230	WR-006	R0050	XS17	R0052
TZ15B	Z0418	UFSD-1	R0054	UT347	R0056	V60/10DP	232	WR-030	R0050	XS17A	R0052
TZ15C	Z0418	UFSD-1A	R0054	UT361	R0055	V60/20DP	232	WR-040	R0050	XS18	R0054
TZ27	Z0424	UFSD-1A	R0054	UT364	R0098	V60/30DP	232	WR100	R0052	XS22	R0050
TZ27A	Z0424	UFSD-1B	R0056	UT2005	R0090	V100	R0222	WR200	R0052	XS23	R0054
TZ27B	Z0424	UG1888	R0052	UT2010	R0091	V120	3	WR300	R0053	XS23A	R0054
TZ27C	Z0424	UL910	580	UT2020	R0092	V200	R0222	WR400	R0053	XS31	R0053
TZ33	Z0426	ULN2111A	C6062P	UT2040	R0094	V205	3	WRR1952	55	XS40A	R0050
TZ33A	Z0426	ULN2114	C6057P	UT2060	R0096	V210C	R0054	WRR1953	55	YAAD004	R0052
TZ33B	Z0426	ULN2114A	C6057P	UT3005	R0090	V-210C	135	WRR1954	55	YAAD010	135
TZ33C	Z0426	ULN2114K	C6067G	UT3010	R0091	V220	56	WRR1955	R0053	YAAN25D141	243
TZ62	Z0433	UPC-16C	C6060P	UT3020	R0092	V221	56	WRR1956	R0053	YSG-V47-7-51-1	R0053
TZ62A	Z0433	UPC-555A	C6001	UT3040	R0094	V222	56	WRT1114	632	YSG-V81-2-3	R9001
TZ62B	Z0433	UR105	R0050	UT3060	R0096	V405	56	WT16X7	R9001	YSG-V139-22	135
TZ62C	Z0433	UR110	R0052	UT3080	R0097	V410	51	WT16X8	R9002	YV1	254
TZ82	Z0436	UR115	R0052	UZ3.6	Z0402	V-8634-3	R0700	WTV3MC	2	YV2	254
TZ82A	Z0436	UR120	R0052	UZ5.1	Z0405	V10158	R0054	WTV6MC	2	Z0A3.3	Z0206
TZ82B	Z0436	UR123AA	R0130	UZ6.2	Z0408	V-10916-3	135	WTV6PWR	232	Z0A3.9	Z0208
TZ82C	Z0436	UR123BA	R0131	UZ9.1	Z0412	VB11	254	WTV12MC	2	Z0B3.3	Z0206
TZ110	Z0439	UR123CA	R0132	UZ15	Z0418	VB-11	R0054	WTV12PWR	232	Z0B3.9	Z0208
TZ110A	Z0439	UR123DA	R0132	UZ110	Z2545	VD11	135	WTV15VMG	253	Z0B4.7	Z0210
TZ110B	Z0439	UR123EA	R0134	UZ112	Z2547	VD12	135	WTV20MC	2	Z0B5.1	Z0211
TZ110C	Z0439	UR123FA	R0134	UZ210	Z2545	VD13	135	WTV20VH6	254	Z0B5.6	Z0212
TZ581	S3029	UR123HA	R0134	UZ212	Z2547	VFG2745B	230/232	WTV20VMG	254	Z0B6.2	Z0214
TZ582	S3028	UR123KA	R0136	UZ310	Z2545	VFP2746C	230/232	WTV25PWR	232	Z0B6.8	Z0215
U5B991021X	580	UR123MA	R0136	UZ312	Z2547	VFP6537C	232	WTV30VH6	254	Z0B8.2	Z0217
U5B991029X	580	UR123PA	R0137	UZ707	Z2510	VFG2745F	254	WTV30VMG	254	Z0B9.1	Z0219
U5B991121X	581	UR123RA	R0137	UZ709	Z2513	VFS2745	253	WTV40PWR	232	Z0B10	Z0220
U5B991129X	581	UR123VA	R0138	UZ710	Z2514	VFS2745J	254	WTV99PWR	232	Z0B12	Z0222
U5B991421X	584	UR125	R0053	UZ712	Z2516	VFT2745H	253	WTV199PWR	232	Z0B15	Z0225
U5B991422X	584	UR205	R0090	UZ715	Z2519	VFU2746B	232	WTV299PWR	233	Z0B20	Z0230
U5B991429X	584	UR210	R0091	UZ718	Z2522	VM-0.09M	R9001	WTVAT6	254	Z0B22	Z0231
U5D770339X	590	UR215	R0092	UZ722	Z2525	VR5.6	Z0407	WTVAT6A	2	Z0B27	Z0234
U5D7703312	C6001	UR220	R0092	UZ727	Z2528	VR5.6A	Z0407	WTVB5	2	Z0C3.3	Z0206
U5D7703393	C6001	UR225	R0094	UZ733	Z2531	VR5.6B	Z0407	WTVB5A	253	Z0C3.9	Z0208
U5D7703394	C6001	US123EA	R0134	UZ756	Z2537	VR9.1	Z0412	WTVBA6	2	Z0C4.7	Z0210
U5E7746394	C6050P	US123GA	R0134	UZ807	Z2510	VR9.1A	Z0412	WTVBA6A	254	Z0C5.1	Z0211
U5E7796312	C6050G	US123PA	R0137	UZ809	Z2513	VR9.1B	Z0412	WTVBE6	2	Z0C5.6	Z0212
U6A740059X	C3000P	US123RA	R0137	UZ810	Z2514	VR10E	Z3512	WTVBE6A	254	Z0C6.2	Z0214
U6A740159X	C3001P	US123VA	R0138	UZ812	Z2516	VR10F	Z2514	WTVBM6	254	Z0C6.8	Z0215
U6A740259X	C3002P	USN7400A	C3000P	UZ815	Z2519	VR11	Z0414	WZ092	Z0412	Z0C8.2	Z0217
U6A740459X	C3004P	USN7401A	C3001P	UZ818	Z2522	VR11A	Z0414	WZ522	Z0211	Z0C9.1	Z0219
U6A741059X	C3010P	USN7402A	C3002P	UZ822	Z2525	VR11B	Z0414	WZ523	Z0212	Z0C10	Z0220
U6A742059X	C3020P	USN7410A	C3010P	UZ827	Z2528	VR12	Z0415	WZ533	Z0220	Z0C12	Z0222
U6A743059X	C3030P	USN7420A	C3020P	UZ833	Z2531	VR12A	Z0415	WZ535	Z0222	Z0C15	Z0225
U6A744059X	C3040P	USN7430A	C3030P	UZ856	Z2537	VR12B	Z0415	WZ537	Z0417	Z0C18	Z0228
U6A745059X	C3050P	USN7440A	C3040P	UZ907	Z2510	VR12E	Z3514	WZ538	Z0225	Z0C20	Z0230
U6A747359X	C3073P	USN7441A	C3041P	UZ909	Z2513	VR12F	Z2516	WZ542	Z0228	Z0C22	Z0231
U6A7729394	595	USN7450A	C3050P	UZ910	Z2514	VR13	Z0416	WZ544	Z0230	Z0C27	Z0234
U6A7732394	594	USN7473A	C3073P	UZ912	Z2516	VR13A	Z0416	WZ905	Z0405	Z0D3.3	Z0206
U6A7739312	C6055L	UT11	R0050	UZ915	Z2519	VR13B	Z0416	WZ916	Z0414	Z0D3.9	Z0208
U6A7730393	C6055L	UT12	R0052	UZ918	Z2522	VR14	Z0417	WZ917	Z0415	Z0D4.7	Z0210
U6A7746394	C6057P										

HEP Semiconductor Replacement Cross-References

DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
Z0D9.1	Z0219	Z3B150CF	Z2519	ZB01	Z0408	ZA33	Z0426	ZBCB2	Z2542	ZF4.7	Z0210
Z0D10	Z0220	Z3B180CF	Z2522	Z1000	Z0206	ZA33A	Z0426	ZBC100	Z2545	ZF5.1	Z0211
Z0D12	Z0222	Z3B220CF	Z2525	Z1002	Z0208	ZA33B	Z0426	ZBC120	Z2547	ZF5.6	Z0212
Z0D15	Z0225	Z3B270CF	Z2528	Z1004	Z0210	ZA56	Z0432	ZC7.5	Z2510	ZF6.2	Z0214
Z0D18	Z0228	Z3B330CF	Z2531	Z-1004	Z0405	ZA56A	Z0432	ZC9.1	Z2513	ZF6.8	Z0215
Z0D20	Z0230	Z3B560CF	Z2537	Z1006	Z0212	ZA56B	Z0432	ZC10	Z2514	ZF7.2	Z0217
Z0D22	Z0231	Z3BB20CF	Z2542	Z-1006	Z0407	ZA62	Z0433	ZC12	Z2516	ZF9.1	Z0219
Z0D27	Z0234	Z3B1000CF	Z2545	Z1008	Z0215	ZA62A	Z0433	ZC18	Z2522	ZF10	Z0220
Z1A3.3	Z0206	Z4.7	Z0210	Z1010	R0217	ZA62B	Z0433	ZC22	Z2525	ZF12	Z0222
Z1A3.9	Z0208	Z4B5.6	Z0407	Z1012	R0220	ZAB2	Z0436	ZC27	Z2528	ZF12A	Z0415
Z1A4.7	Z0210	Z4B9.1	Z0412	Z-1012	Z0220	ZAB2A	Z0436	ZC33	Z2531	ZF12B	Z0415
Z1B3.9	Z0208	Z4B12	Z0415	Z1014	Z0222	ZAB2B	Z0436	ZC56	Z2537	ZF15	Z0225
Z1B4.7	Z0210	Z4B15	Z041B	Z-1014	Z0415	ZA110	Z0439	ZC82	Z2542	ZF15A	Z0418
Z1B5.1	Z0211	Z4B27	Z0424	Z1016	Z0225	ZA110A	Z0439	ZC012	Z0415	ZF15B	Z0418
Z1B5.6	Z0212	Z4B33	Z0426	Z-1016	Z041B	ZA110B	Z0439	ZC015	Z041B	ZF18	Z0228
Z1B6.2	Z0214	Z4X5.6	Z0407	Z1018	Z0228	ZAC7.5	Z2510	ZC027	Z0424	ZF20	Z0230
Z1B6.8	Z0215	Z4X9.1	Z0412	Z1020	Z0231	ZAC7.5A	Z2510	ZC033	Z0426	ZF22	Z0231
Z1B8.2	Z0217	Z4X11	Z0414	Z1022	Z0234	ZAC7.5B	Z2510	ZC100	Z2545	ZF27	Z0234
Z1B9.1	Z0219	Z4X12	Z0415	Z-1022	Z0424	ZAC9.1	Z2513	ZC120	Z2547	ZF27A	Z0424
Z1B10	Z0220	Z4X13	Z0416	Z1024	Z0426	ZAC9.1A	Z2513	ZC2010	Z2514	ZF27B	Z0424
Z1B12	Z0222	Z4X14	Z0417	Z-1024	Z0426	ZAC9.1B	Z2513	ZC2012	Z2516	ZF33	Z0426
Z1B15	Z0225	Z4X14B	Z0417	Z1102	Z0405	ZAC10	Z2514	ZC2015	Z2519	ZF33A	Z0426
Z1B18	Z0228	Z4X15	Z041B	Z-1102	Z0405	ZAC10A	Z2514	ZC201B	Z2522	ZF33B	Z0426
Z1B20	Z0230	Z4XL6.2	Z040B	Z1104	Z0407	ZAC10B	Z2514	ZC2022	Z2525	ZF62	Z0433
Z1B22	Z0231	Z4XL6.2B	Z040B	Z-1104	Z0407	ZAC12	Z2516	ZC2027	Z2528	ZF62A	Z0433
Z1B27	Z0234	Z4XL9.1	Z0412	Z1112	Z0415	ZAC12A	Z2516	ZC2033	Z2531	ZF62B	Z0433
Z1C3.3	Z0206	Z4XL9.1B	Z0412	Z1112C	Z0415	ZAC12B	Z2516	ZCC7.5	Z2510	ZF82	Z0436
Z1C3.9	Z0208	Z4XL12	Z0415	Z1114	Z0418	ZAC15	Z2519	ZCC12	Z2516	ZFB2A	Z0436
Z1C4.7	Z0210	Z4XL12B	Z0415	Z-1114	Z041B	ZAC15A	Z2519	ZCC15	Z2519	ZFB2B	Z0436
Z1C5.1	Z0211	Z4XL14	Z0417	Z1120	Z0424	ZAC15B	Z2519	ZCC22	Z2525	ZG3.3	Z0206
Z1C5.6	Z0212	Z4XL14B	Z0417	Z-1120	Z0424	ZAC1B	Z2522	ZCC27	Z2522	ZG3.9	Z0208
Z1C6.2	Z0214	Z5.1	Z0211	Z1122	Z0426	ZAC1BA	Z2522	ZCC33	Z2531	ZG4.7	Z0210
Z1C8.2	Z0216	Z5.6	Z0212	Z1122	Z0426	ZAC1BB	Z2522	ZCC56	Z2537	ZG5.6	Z0212
Z1C9.1	Z0219	Z5A3.3	Z0206	Z1128	Z0432	ZAC22	Z2525	ZCCB2	Z2542	ZG6.8	Z0215
Z1C10	Z0220	Z5A3.9	Z020B	Z-1128	Z0432	ZAC22A	Z2525	ZCC100	Z2545	ZG8.2	Z0217
Z1C12	Z0222	Z5B3.3	Z0206	Z1132	Z0436	ZAC22B	Z2525	ZCC120	Z2547	ZG10	Z0220
Z1C15	Z0225	Z5B3.6	Z0402	Z-1132	Z0436	ZAC27	Z2528	ZCOM3679	R0054	ZG12	Z0222
Z1C18	Z0228	Z5B3.9	Z020B	Z1140	Z0212	ZAC27A	Z2528	ZD5.6A	Z0407	ZG15	Z0225
Z1C20	Z0230	Z5B4.7	Z0210	Z1145	Z0212	ZAC27B	Z2528	ZD5.6B	Z0407	ZG15A	Z0418
Z1C22	Z0231	Z5B5.1	Z0211	Z1150	Z0212	ZAC33	Z2531	ZD6.2A	Z0408	ZG15B	Z0418
Z1C27	Z0234	Z5B5.6	Z0212	Z1155	Z0212	ZAC33A	Z2531	ZD6.2B	Z0408	ZG18	Z0228
Z1D3.3	Z0206	Z5B6.2	Z0214	Z1160	Z0212	ZAC33B	Z2531	ZD9.1	Z0412	ZG22	Z0231
Z1D3.9	Z0208	Z5B6.8	Z0215	Z1165	Z0212	ZAC56	Z2537	ZD9.1A	Z0412	ZG27	Z0234
Z1D4.7	Z0210	Z5BB.2	Z0217	Z1170	Z0212	ZAC56A	Z2537	ZD9.1B	Z0412	ZG27A	Z0424
Z1D5.1	Z0211	Z5B9.1	Z0219	Z1240	Z0212	ZAC56B	Z2537	ZD12	Z0415	ZG27B	Z0424
Z1D5.6	Z0212	Z5B10	Z0220	Z1245	Z0212	ZACB2	Z2542	ZD12A	Z0415	ZG33	Z0426
Z1D6.2	Z0214	Z5B12	Z0222	Z1250	Z0212	ZACB2A	Z2542	ZD12B	Z0415	ZG33A	Z0426
Z1DB.2	Z0217	Z5B15	Z0225	Z1255	Z0212	ZACB2B	Z2542	ZD15	Z0418	ZG33B	Z0426
Z1D9.1	Z0219	Z5B18	Z0228	Z1260	Z0212	ZAC100	Z2545	ZD15A	Z0418	ZG62	Z0433
Z1D10	Z0220	Z5B20	Z0230	Z1265	Z0212	ZAC100A	Z2545	ZD15B	Z0418	ZG62A	Z0433
Z1D12	Z0222	Z5B22	Z0231	Z1270	Z0212	ZAC100B	Z2545	ZD27	Z0424	ZG62B	Z0433
Z1D15	Z0225	Z5C3.3	Z0206	Z1300	Z3500	ZAC120	Z2547	ZD27A	Z0424	ZG82	Z0436
Z1D18	Z0228	Z5C3.9	Z020B	Z1302	Z3502	ZAC120A	Z2547	ZD27B	Z0424	ZG82A	Z0436
Z1D20	Z0230	Z5C4.7	Z0210	Z1304	Z3504	ZAC120B	Z2547	ZD33	Z0426	ZG82B	Z0436
Z1D22	Z0231	Z5C5.1	Z0211	Z1310	Z3512	ZAR110	R009B	ZD33A	Z0426	ZH9.1	Z0412
Z1D27	Z0234	Z5C5.6	Z0212	Z1312	Z3514	ZAR120	R0138	ZD33B	Z0426	ZH9.1A	Z0412
Z2A51F	Z0405	Z5C6.2	Z0214	Z1314	Z3516	ZAR610	R009B	ZD62	Z0433	ZH9.1B	Z0412
Z2A56F	Z0407	Z5C6.8	Z0215	Z1316	Z3518	ZAR710	R009B	ZD62A	Z0433	ZH11	Z0414
Z2A62F	Z0408	Z5C8.2	Z0217	Z1318	Z3520	ZB1.6	Z0408	ZD62B	Z0433	ZH11A	Z0414
Z2A91F	Z0412	Z5C9.1	Z0219	Z1320	Z3522	ZB1.9	Z0412	ZD82	Z0436	ZH11B	Z0414
Z2A120F	Z0415	Z5C10	Z0220	Z1322	Z3524	ZB1-10	Z0413	ZDB2A	Z0436	ZH12	Z0415
Z2A150F	Z0418	Z5C12	Z0222	Z1328	Z3530	ZB1-11	Z0414	ZDB2B	Z0436	ZH12A	Z0415
Z2B3.9	Z2502	Z5C15	Z0225	Z1332	Z3534	ZB1-12	Z0415	ZD012	Z0415	ZH12B	Z0415
Z2B4.7	Z2504	Z5C18	Z0228	Z1334	Z3536	ZB1-13	Z0416	ZD015	Z0418	ZH13	Z0416
Z2B5.6	Z2506	Z5C20	Z0230	Z1540	Z0212	ZB1-15	Z0418	ZD027	Z0424	ZH13A	Z0416
Z2B6.2	Z2508	Z5C22	Z0231	Z1545	Z0212	ZB1-1B	Z0420	ZD033	Z0426	ZH13B	Z0416
Z2B7.5	Z2510	Z5D3.3	Z0206	Z1550	Z0212	ZB1-35	Z0426	ZD110	Z0439	ZH15	Z0418
Z2B9.1	Z2513	Z5D3.9	Z020B	Z1555	Z0212	ZB3.3	Z0206	ZD110A	Z0439	ZH15A	Z0418
Z2B10	Z2514	Z5D4.7	Z0210	Z1560	Z0212	ZB4.7	Z0210	ZD110B	Z0439	ZH15B	Z0418
Z2B12	Z2516	Z5D5.1	Z0211	Z1565	Z0212	ZB5.1	Z0211	ZD2010	Z2514	ZH27	Z0424
Z2B15	Z2519	Z5D5.6	Z0212	Z1570	Z0212	ZB5.6	Z0407	ZD2012	Z2516	ZH27A	Z0424
Z2B18	Z2522	Z5D6.2	Z0214	Z1540	Z0212	ZB5.6A	Z0407	ZD2015	Z2519	ZH27B	Z0424
Z2B22	Z2525	Z5D6.8	Z0215	Z1545	Z0212	ZB5.6B	Z0407	ZD201B	Z2522	ZH33	Z0426
Z2B33	Z2531	Z5D8.2	Z0217	Z1510	Z0212	ZB6.2	Z0214	ZD2022	Z2525	ZH33A	Z0426
Z2C3.9	Z2502	Z5D9.1	Z0219	Z1515	Z0212	ZB6.2A	Z0408	ZD2027	Z2528	ZH33B	Z0426
Z2C4.7	Z2504	Z5D10	Z0220	Z1516	Z0212	ZB6.2B	Z0408	ZD2033	Z2531	ZH56	Z0432
Z2C5.6	Z2506	Z5D12	Z0222	Z1565	Z0212	ZB6.8	Z0215	ZE4.7	Z0210	ZH56A	Z0432
Z2C6.2	Z2508	Z5D15	Z0225	Z15170	Z0212	ZB8.2	Z0217	ZE5.6	Z0212	ZH56B	Z0432
Z2C7.5	Z2510	Z5D18	Z0228	Z15240	Z0212	ZB9.1	Z0219	ZE6.8	Z0215	ZH62	Z0433
Z2C9.1	Z2513	Z5D20	Z0230	Z15245	Z0212	ZB10	Z0220	ZEB.2	Z0217	ZH62A	Z0433
Z2C10	Z2514	Z5D22	Z0231	Z15250	Z0212	ZB10X	Z0220	ZE10	Z0220	ZH62B	Z0433
Z2C12	Z2516	Z5D91CF	Z3511	Z15255	Z0212	ZB12	Z0222	ZE12	Z0222	ZH82	Z0436
Z2C15	Z2519	Z5D100CF	Z3512	Z15260	Z0212	ZB12A	Z0415	ZE12A	Z0415	ZH82A	Z0436
Z2C18	Z2522	Z5D120CF	Z3514	Z15265	Z0212	ZB12B	Z0415	ZE12B	Z0415	ZH82B	Z0436
Z2C22	Z2525	Z5D150CF	Z3516	Z15270	Z0212	ZB15	Z0225	ZE15	Z0225	ZH110	Z0439
Z2C33	Z2531	Z5D180CF	Z3518	Z15540	Z0212	ZB15A	Z0418	ZE15A	Z0418	ZH110A	Z0439
Z2D3.9	Z2502	Z5D220CF	Z3520	Z15545	Z0212	ZB15B	Z0418	ZE15B	Z0418	ZH110B	Z0439
Z2D4.7	Z2504	Z5D270CF	Z3522	Z15550	Z0212	ZB18	Z0228	ZE18	Z0228	ZJ12	Z0415
Z2D5.6	Z2506	Z5D330CF	Z3524	Z15555	Z0212	ZB20	Z0230	ZE22	Z0231	ZJ12A	Z0415
Z2D6.2	Z2508	Z5D560CF	Z3530	Z15560	Z0212	ZB22	Z0231	ZE27	Z0424	ZJ12B	Z0415
Z2D7.5	Z2510	Z5DB20CF	Z3534	Z15565	Z0212	ZB27	Z0424	ZE27A	Z0424	ZJ15	Z0418
Z2D9.1	Z2513	Z5D1000CF	Z3536	Z15570	Z0212	ZB27A	Z0424	ZE27B	Z0424	ZJ15A	Z0418
Z2D10	Z2514	Z6.2	Z0214	ZA9.1	Z0412	ZB27B	Z0424	ZE33	Z0426	ZJ15B	Z0418
Z2D12	Z2516	Z6.8	Z0215	ZA9.1A	Z0412	ZB33	Z0426	ZE33A	Z0426	ZJ27	Z0424
Z2D15	Z2519	Z8.2	Z0217	ZA9.1B	Z0412	ZB33A	Z0426	ZE33B	Z0426	ZJ27A	Z0424
Z2D18	Z2522	Z9.1	Z0219	ZA11	Z0414	ZB33B	Z0426	ZE62	Z0433	ZJ27B	Z0424
Z2D22	Z2525	Z10	Z0220	ZA11A	Z0414	ZB62	Z0433	ZE62A	Z0433	ZJ33	Z0426
Z2D27	Z2528	Z10K	Z0220	ZA11B	Z0414	ZB62A	Z0433	ZE62B	Z0433	ZJ33A	Z0426
Z2D33	Z2531	Z12.0	Z0222	ZA12	Z0415	ZB62B	Z0433	ZE82	Z0436	ZJ33B	Z0426
Z3.3	Z0206	Z12K	Z0415	ZA12A	Z0415	ZB82	Z0436	ZE82A	Z0436	ZJ62	Z0433
Z3.6	Z0402	Z15	Z0225	ZA12B	Z0415	ZB82A	Z0436	ZE82B	Z0436	ZJ62A	Z0433
Z3.9	Z0208	Z15K	Z041B	ZA13	Z0416	ZB82B	Z0436	ZE110	Z0439	ZJ82	Z0436
Z3B39CE	Z2502	Z18	Z0228	ZA13A	Z0416	ZB82C.5	Z2510	ZE110A	Z0439	ZJ82A	Z0436
Z3B47CF	Z2504	Z22	Z0231	ZA13B	Z0416	ZB82C.12	Z2519	ZE110B	Z0439	ZJ82B	Z0436
Z3B56CF	Z2506	Z27	Z0234	ZA15	Z0418	ZB82C.15	Z2519	ZE110B	Z0439	ZJ82C	Z0436
Z3B62CF	Z2508	Z33	Z0426	ZA15A	Z0418	ZB82C.18	Z2522	ZE110B	Z0439	ZJ110	Z0439
Z3B75CF	Z2510	Z37	Z0426	ZA15B	Z0418	ZB82C.22	Z2525	ZE110B	Z0439	ZJ110A	Z043

HEP Semiconductor Replacement Cross-References

DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP	DEVICE	HEP
ZO-12A	Z0415	ZP62A	Z0433	ZS9.1	Z0412	ZT27B	Z0424	ZT918	56	ZV110	Z0439
ZO-12B	Z0415	ZP62B	Z0433	ZS9.1A	Z0412	ZT33	Z0426	ZT1481	243	ZV110A	Z0439
ZO-15	Z0418	ZP82	Z0436	ZS9.1B	Z0412	ZT33A	Z0426	ZT1487	247	ZV110B	Z0439
ZO-15A	Z0418	ZP82A	Z0436	ZS12	Z0222	ZT33B	Z0426	ZT1489	247	ZW9.1	Z0412
ZO-15B	Z0418	ZP82B	Z0436	ZS12A	Z0415	ZT40	50	ZT1700	243	ZY12	Z0415
ZO-27	Z0424	ZP110	Z0439	ZS12B	Z0415	ZT41	50	ZT1702	247	ZY12A	Z0415
ZO-27A	Z0424	ZP110A	Z0439	ZS15	Z0225	ZT42	50	ZT1708	50	ZY12B	Z0415
ZO-27B	Z0424	ZP110B	Z0439	ZS15A	Z0418	ZT43	50	ZT2205	50	ZY15	Z0418
ZO-33	Z0426	ZQ9.1	Z0412	ZS15B	Z0418	ZT44	50	ZT2206	50	ZY15A	Z0418
ZO-33A	Z0426	ZQ9.1A	Z0412	ZS27	Z0424	ZT60	53	ZT2368	56	ZY15B	Z0418
ZO-33B	Z0426	ZQ9.1B	Z0412	ZS27A	Z0424	ZT61	53	ZT2369	56	ZY27	Z0424
ZO-62	Z0433	ZQ12	Z0415	ZS27B	Z0424	ZT62	Z0433	ZT2369A	56	ZY27A	Z0424
ZO-62A	Z0433	ZQ12A	Z0415	ZS33	Z0426	ZT62A	Z0433	ZT2475	56	ZY27B	Z0424
ZO-62B	Z0433	ZQ12B	Z0415	ZS33A	Z0426	ZT62B	Z0433	ZT2476	53	ZY33	Z0426
ZO-82	Z0436	ZQ15	Z0418	ZS33B	Z0426	ZT63	53	ZT2477	53	ZY33A	Z0426
ZO-82A	Z0436	ZQ15A	Z0418	ZS62	Z0433	ZT64	53	ZT2708	56	ZY33B	Z0426
ZO-82B	Z0436	ZQ15B	Z0418	ZS62A	Z0433	ZT80	50	ZT2938	56	ZY62	Z0433
ZO-110	Z0439	ZQ27	Z0424	ZS62B	Z0433	ZT81	50	ZT3600	56	ZY62A	Z0433
ZO-110A	Z0439	ZQ27A	Z0424	ZS70	R0050	ZT82	Z0436	ZTX300	53	ZY62B	Z0433
ZO-110B	Z0439	ZQ27B	Z0424	ZS71	R0052	ZT82A	Z0436	ZTX302	736	ZY82	Z0436
ZOB3.6	Z0402	ZQ33	Z0426	ZS72	R0052	ZT82B	Z0436	ZTX500	51	ZY82A	Z0436
ZOB5.6	Z0407	ZQ33A	Z0426	ZS73	R0053	ZT82 (Transistor)	50004	ZU12	Z0415	ZY82B	Z0436
ZOB6.2	Z0408	ZQ33B	Z0426	ZS74	R0053	ZT83	50	ZU12A	Z0415	ZY110	Z0439
ZOB12	Z0415	ZQ62	Z0433	ZS74B	R0053	ZT84	50	ZU12B	Z0415	ZY110A	Z0439
ZOB15	Z0418	ZQ62A	Z0433	ZS76	R0054	ZT87	50	ZU15	Z0418	ZY110B	Z0439
ZOB27	Z0424	ZQ62B	Z0433	ZS78	R0055	ZT110	Z0439	ZU15A	Z0418	ZZ3.3	Z0206
ZOB33	Z0426	ZQ82	Z0436	ZS78B	R0055	ZT110A	Z0439	ZU15B	Z0418	ZZ3.6	Z0402
ZOB62	Z0433	ZQ82A	Z0436	ZS82	Z0436	ZT110B	Z0439	ZU27	Z0424	ZZ3.9	Z0208
ZOB82	Z0436	ZQ82B	Z0436	ZS82A	Z0436	ZT111	50	ZU27A	Z0424	ZZ4.7	Z0210
ZOB110	Z0439	ZQ110	Z0439	ZS82B	Z0436	ZT112	50	ZU27B	Z0424	ZZ5.1	Z0211
ZOD6.2	Z0408	ZQ110A	Z0439	ZS110	Z0439	ZT113	50	ZU33	Z0426	ZZ5.6	Z0212
ZOD15	Z0418	ZQ110B	Z0439	ZS110A	Z0439	ZT114	50	ZU33A	Z0426	ZZ6.2	Z0214
ZOD27	Z0424	ZR10	R0090	ZS110B	Z0439	ZT117	50	ZU33B	Z0426	ZZ6.8	Z0215
ZOD33	Z0426	ZR11	R0091	ZS270	R0090	ZT131	52	ZU62	Z0433	ZZ8.2	Z0217
ZOD62	Z0433	ZR12	R0092	ZS271	R0091	ZT152	52	ZU62A	Z0433	ZZ9.1	Z0219
ZOD82	Z0436	ZR13	R0094	ZS272	R0092	ZT153	52	ZU62B	Z0433	ZZ10	Z0220
ZOD110	Z0439	ZR14	R0094	ZS274	R0094	ZT154	52	ZU82	Z0436	ZZ12	Z0415
ZP3.3	Z0206	ZR15	R0054	ZS276	R0096	ZT180	52	ZU82A	Z0436	ZZ15	Z0225
ZP3.9	Z0208	ZR20	R0160	ZS278	R0097	ZT181	716	ZU82B	Z0436	ZZ18	Z0228
ZP4.7	Z0210	ZR21	R0162	ZS701	R0092	ZT182	52	ZU110	Z0439	ZZ22	Z0231
ZP5.1	Z0211	ZR22	R0162	ZS702	R0092	ZT183	52	ZU110A	Z0439	ZZ27	Z0234
ZP5.6	Z0212	ZR51B155-2	Z2519	ZT5.6	Z0407	ZT184	52	ZU110B	Z0439	ZZ33	Z0426
ZP6.2	Z0214	ZR60	R0050	ZT5.6A	Z0407	ZT187	52	ZV9.1	Z0412	ZZ62	Z0433
ZP6.8	Z0215	ZR61	R0052	ZT5.6B	Z0407	ZT202	53	ZV9.1A	Z0412	ZZ82	Z0436
ZP8.2	Z0217	ZR62	R0052	ZT6.2	Z0408	ZT203	53	ZV9.1B	Z0412	ZZ110	Z0439
ZP9.1	Z0219	ZR63	R0053	ZT6.2A	Z0408	ZT204	53	ZV12	Z0415	μA703	C6001
ZP10	Z0220	ZR64	R0053	ZT6.2B	Z0408	ZT210	243	ZV12A	Z0415	μA703C	C6001
ZP12	Z0220	ZR66	R0054	ZT9.1	Z0412	ZT280	52	ZV12B	Z0415	μA703E	C6001
ZP12A	Z0415	ZR200	R0130	ZT9.1A	Z0412	ZT281	52	ZV15	Z0418	μA729	595
ZP12B	Z0415	ZR201	R0131	ZT9.1B	Z0412	ZT282	52	ZV15A	Z0418	μA732	594
ZP15	Z0225	ZR202	R0132	ZT12	Z0415	ZT283	52	ZV15B	Z0418	μA737E	C6057P
ZP15A	Z0418	ZR204	R0134	ZT12A	Z0415	ZT284	52	ZV27	Z0424	μA739	C6055L
ZP15B	Z0418	ZR206	R0136	ZT12B	Z0415	ZT287	52	ZV27A	Z0424	μA739C	C6055L
ZP18	Z0228	ZR208	R0137	ZT15	Z0418	ZT402	53	ZV27B	Z0424	μA746	C6057P
ZP20	Z0230	ZR601	R0091	ZT15A	Z0418	ZT403	50	ZV33	Z0426	μA767	C6056P
ZP22	Z0231	ZR602	R0092	ZT15B	Z0418	ZT404	50	ZV33A	Z0426	μA780	C6070P
ZP27	Z0234	ZR604	R0094	ZT20	53	ZT696	53	ZV33B	Z0426	μA796	C6071P
ZP27A	Z0424	ZR606	R0096	ZT21	53	ZT697	53	ZV62	Z0433	μA796	C6050G
ZP27B	Z0424	ZR608	R0097	ZT22	53	ZT706	50	ZV62A	Z0433	μPC-16C	C6060P
ZP33	Z0426	ZR1035	R0053	ZT23	53	ZT706A	50	ZV62B	Z0433	μPC-555A	C6001
ZP33A	Z0426	ZS5.6	Z0407	ZT24	53	ZT708	50	ZV82	Z0436	μL910	580
ZP33B	Z0426	ZS5.6A	Z0407	ZT27	Z0424	ZT709	56	ZV82A	Z0436	μL914	584
ZP62	Z0433	ZS5.6B	Z0407	ZT27A	Z0424	ZT917	56	ZV82B	Z0436		

NOTES

NOTES

ACCESSORIES AND BOOKS

HEP 400

Solid State Projects From Motorola – contains 9 useful and interesting projects plus basic semiconductor information and builders hints.

HEP 407

Integrated Circuit Projects From Motorola – presents 6 intriguing IC projects in step-by-step form plus an introduction to IC's, glossary of terms, and construction techniques.

HEP 408

Field Effect Transistor Projects – contains 6 informative and useful FET projects in step-by-step form plus an introduction to FET's, glossary of terms, and construction techniques.

HEP 409

Build Your Own Home & Car Security – contains 11 useful and protective alarm system circuits for the intermediate and advanced hobbyist/experimenter plus introduction to types of alarm systems and builders hints.

HEP 410

Silicon Rectifier Handbook – design data, formulas, curves, and applications.

HEP 411

Semiconductor Data Library – contains three informative volumes in a heavy-duty shelf-container providing complete data sheet specifications for a wide range of discrete semiconductors, short-form specifications for IC's, plus selector guides with recommended devices for specific applications.

HEP 413

Zener Diode Handbook – a comprehensive text, complete with basic theory, formulas, curves, and applications.

HEP 415

MECL Integrated Circuits Data Book – provides detailed specifications, family and system characteristics of entire emitter coupled logic family of circuits plus data on all currently available devices and comparative data about all Motorola ECL lines.

HEP 416

Linear Integrated Circuits Data Book – contains data sheet specifications for 140-plus types, a master device index, interchangeability guide, applications guide, packaging information, all with quick access, edge-referenced sections.

HEP A0450

TO-3 Transistor Mounting Kit – especially designed to facilitate the proper and most efficient installation of all devices using the TO-3 package.

HEP A0451

10 Pin IC Sockets (Pkg. of 2) – ideal for the hobbyist-experimenter, allows an IC to be used in many different circuits.

HEP A0452

TO-66 Transistor Mounting Kit – especially designed to facilitate the proper and most efficient installation of all devices using the TO-66 package.

HEP A0453

14 Pin Dual Inline IC Socket – ideal for the hobbyist-experimenter, allows an IC to be used in many different circuits.

HEP A0454

8 Pin IC Sockets (Pkg. of 2) – ideal for the hobbyist-experimenter, allows an IC to be used in many different circuits.

HEP A0455

TO-36 Transistor Mounting Kit – especially designed to facilitate the proper and most efficient installation of all devices using the TO-36 package.

HEP A0456

Stud Device Mounting Kit (7/16" stud, 10-32 thread) – contains all necessary mounting and insulating hardware.

HEP A0457

Stud Device Mounting Kit (11/16" stud, 1/4-28 thread) – contains all necessary mounting and insulating hardware.

HEP A0458

16 Pin Dual Inline IC Socket – ideal for the hobbyist-experimenter, allows an IC to be used in many different circuits.

HEP A0500

TO-3 Heat Sink – predrilled to accept any TO-3 or similar device.

HEP A0501

TO-36 Heat Sink – predrilled to accept any TO-36 or similar device.

HEP A0502

TO-5 Heat Sink – greatly increases power dissipating capabilities and circuit reliability. May be mounted permanently to a chassis or allowed to suspend in free air.

APPLICATION AIDS

HMA 07 – *HEP Semiconductor Cross-Reference Guide* list replacements for thousands of various device types.

HMA 32 – *Tips on Using IC's*, 8 page brochure containing basic IC information, 8 project schematics, and IC cross-references.

HMA 33 – *Tips On Using FET's*, 8 page brochure containing basic FET information, 9 project schematics, and FET cross-references.

HMA 36 – *Radio Amateurs IC Projects*, 8 page brochure for the ham, with 10 project schematics.

HMA 37 – *Home Handyman's Construction Projects*, 8 page brochure with theory and 11 project schematics.



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