X00070

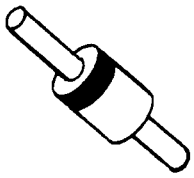
SHE15 THRU SHE100

600 MA—2 AMP, HIGH VOLTAGE STANDARD RECOVERY RECTIFIER 1500—10,000 VOLTS

SSDI

14830 Valley View Avenue
La Mirada, California 90638
P. O. Box 577
La Mirada, California 90637
(213) 921-9660
TWX 910-583-4807

CASE STYLE S



FEATURES

- INJECTION MOLDED EPOXY PACKAGE
- SOLID SILVER LEADS
- MATCHED JUNCTION CHARACTERISTICS
- METALLURGICALLY BONDED JUNCTIONS
- REPLACES HIGH VOLTAGE EPOXY "STICK" PACKAGES

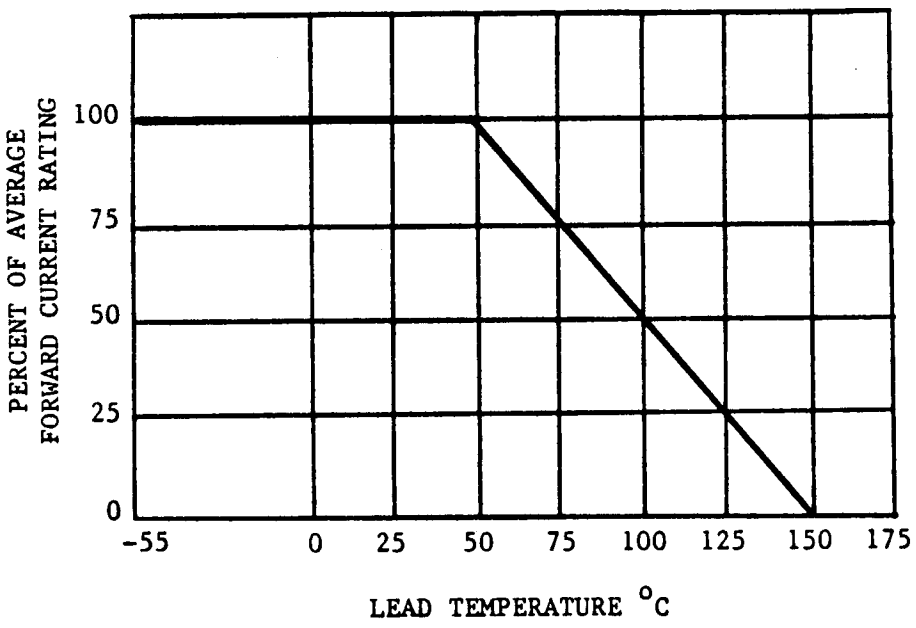
PART NUMBER	PEAK INVERSE VOLTAGE PIV	AVERAGE RECTIFIED CURRENT I_O		MAXIMUM REVERSE CURRENT @ PIV I_R		MAXIMUM FORWARD VOLTAGE @55°C I_O V_F	MAX SURGE CURRENT 1 CYCLE I_{FS}	MAX REVERSE RECOVERY TIME T_{RR} *	MAXIMUM JUNCTION CAPACITANCE C_J	TYPICAL THERMAL IMPEDANCE Θ_{J-L}
		55°C	100°C	25°C	100°C	25°C	25°C	25°C	@100V	L= .25
	VOLTS	mA	mA	uA	uA	VOLTS	AMPS	usec.	pf	°C/W
SHE 15	1500	2000	1000	1.0	25	5.5	60	5	15	9
SHE 20	2000	2000	1000	1.0	25	5.5	60	5	15	9
SHE 25	2500	2000	1000	1.0	25	5.5	60	5	15	9
SHE 30	3000	1000	500	1.0	25	8.5	40	5	12	12
SHE 40	4000	1000	500	1.0	25	8.5	40	5	12	12
SHE 50	5000	1000	500	1.0	25	8.5	40	5	12	12
SHE 60	6000	600	300	1.0	25	12.0	25	5	8	14
SHE 80	8000	600	300	1.0	25	12.0	25	5	8	14
SHE 100	10000	600	300	1.0	25	12.0	25	5	8	14

*Reverse recovery test conditions: IF= .5A, IR= 1A, IRR= .25A.

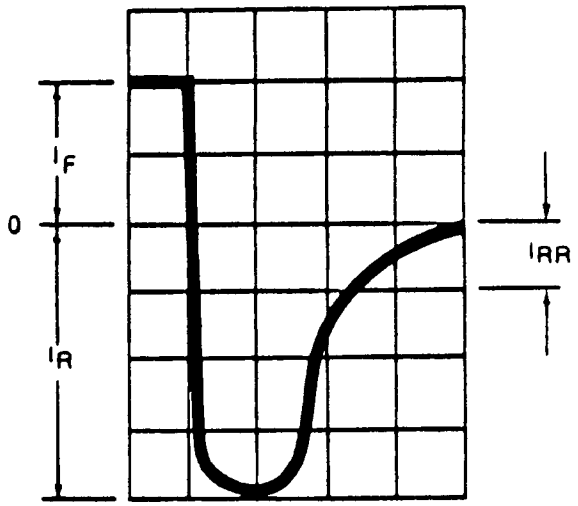
1. Operating and testing over 10,000 V/inch may require encapsulation or immersion in a suitable dieletric material.
2. Maximum forward voltage measured with instantaneous forward pulse of 8.3 mS.
3. Maximum lead temperature for soldering is 250°C, 3/8 inch from case for 5 seconds maximum.
4. Operating and storage temperature -65° to +150°C.

NOTE: All specifications subject to change without notice.

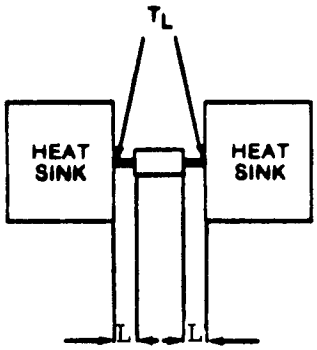
MAXIMUM FORWARD CURRENT VS. LEAD TEMPERATURE



REVERSE RECOVERY WAVE FORM



THERMAL IMPEDANCE θ_{J-L} INFORMATION

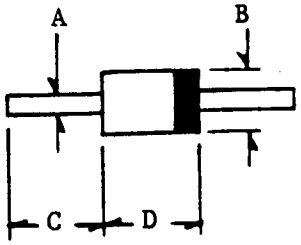


HEAT SINKS ARE INFINITE

T_L = LEAD TEMP. ADJACENT TO HEAT SINK

T_J = TEMP. OF CENTER JUNCTION. EXPOSED PORTION OF LEADS SHALL BE FREE OF PAINT, GREASE, OR COATINGS OF ANY KIND.

BODY MATERIAL = EPOXY
LEAD MATERIAL = SILVER



A= .060 ± .003 DIA
B= .200 ± .015 DIA
C= .4 MIN
D= .250 ± .015 DIA

SSDI SOLID STATE DEVICES, INC.
P. O. Box 577, La Mirada, California 90637
Telephone: (213) 921-9660 • TWX 910-583-4807