

x00072

SHE 15UF THRU SHE 100UF

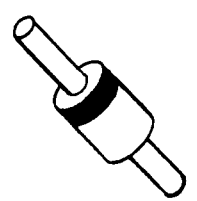
400 MA—1 AMP, HIGH VOLTAGE ULTRA FAST RECOVERY RECTIFIER

1500—10,000 VOLTS



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

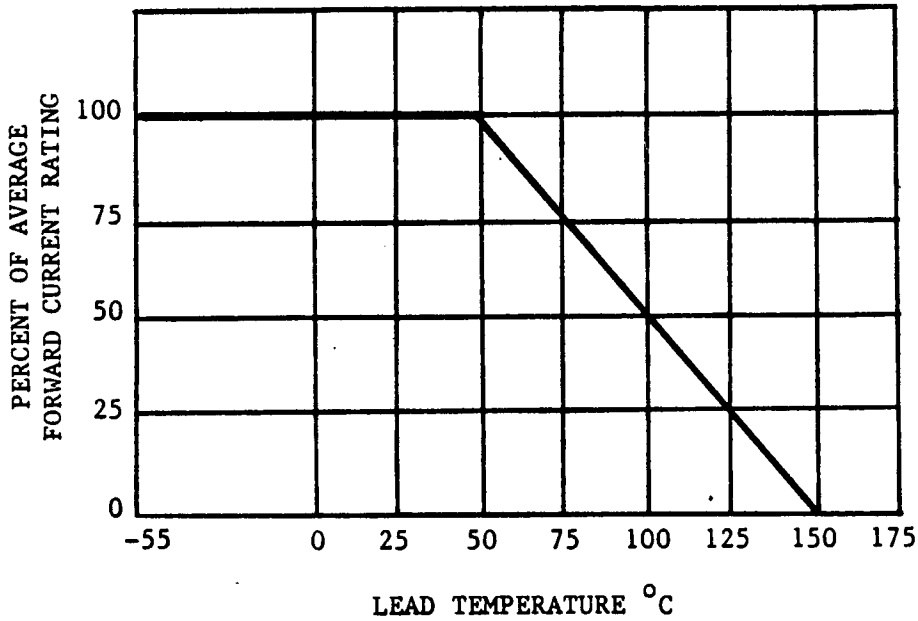
PART NUMBER	PEAK INVERSE VOLTAGE PIV	AVERAGE RECTIFIED CURRENT I _O		MAXIMUM REVERSE CURRENT @ PIV I _R		MAXIMUM FORWARD VOLTAGE @55°C I _O V _F	MAX SURGE CURRENT 1 CYCLE I _{FS}	MAX REVERSE RECOVERY TIME T _{RR} *	MAXIMUM JUNCTION CAPACITANCE C _J	TYPICAL THERMAL IMPEDANCE θ _{J-L}
		55°C	100°C	25°C	100°C					
	VOLTS	mA	mA	uA	uA	VOLTS	AMPS	nsec	pf	°C/W
SHE 15UF	1500	1000	400	1.0	25	7.5	60	60	15	10
SHE 20UF	2000	1000	400	1.0	25	7.5	60	60	15	10
SHE 25UF	2500	1000	400	1.0	25	7.5	60	60	15	10
SHE 30UF	3000	750	300	1.0	25	10.5	40	60	12	13
SHE 40UF	4000	750	300	1.0	25	10.5	40	60	12	13
SHE 50UF	5000	750	300	1.0	25	10.5	40	60	12	13
SHE 60UF	6000	400	160	1.0	25	14.0	25	60	8	18
SHE 80UF	8000	400	160	1.0	25	14.0	25	60	8	18
SHE 100UF	10000	400	160	1.0	25	14.0	25	60	8	18

*Reverse recovery test conditions: I_F= .5A, I_R= 1A, I_{RR}= .25A.

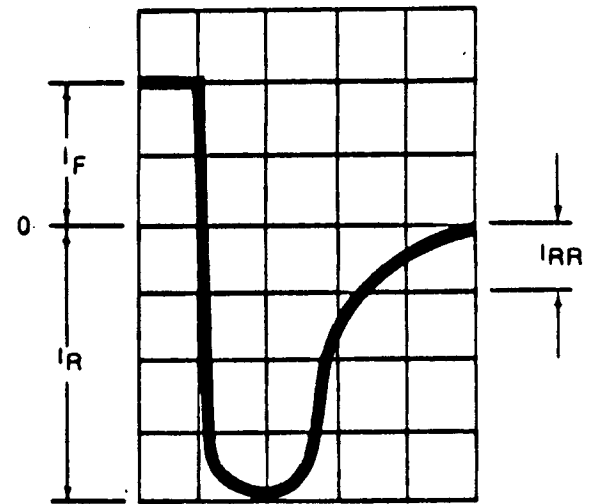
1. Operating and testing over 10,000 V/inch may require encapsulation or immersion in a suitable dielectric material.
2. Maximum forward voltage measured with instantaneous forward pulse of 8.3 ms.
3. Maximum lead temperature for soldering is 250°C, 3/8 inch from case for 5 seconds maximum.
4. Operating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

NOTE: All specifications subject to change without notice.

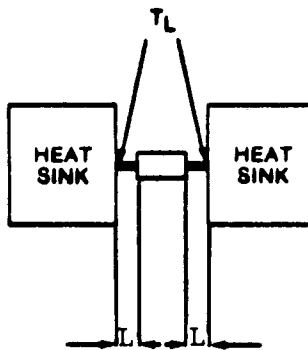
MAXIMUM FORWARD CURRENT VS. LEAD TEMPERATURE



REVERSE RECOVERY WAVE FORM



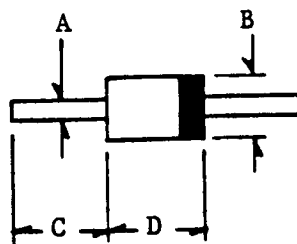
THERMAL IMPEDANCE
● J-L INFORMATION



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

SSD II SOLID STATE DEVICES, INC.

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