

X000071

SHE15F THRU SHE100F

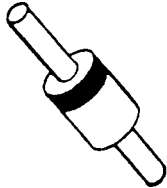
500 MA—1.5 AMP, HIGH VOLTAGE FAST RECOVERY RECTIFIER

1500—10,000 VOLTS

SSDII

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CASE STYLE S



FEATURES

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

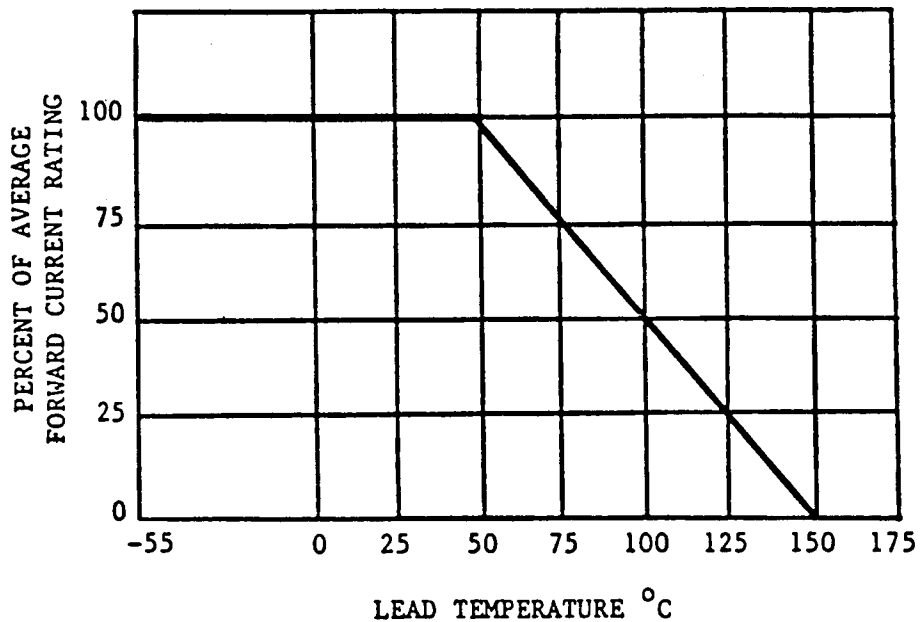
PART NUMBER	PEAK INVERSE VOLTAGE	AVERAGE RECTIFIED CURRENT		MAXIMUM REVERSE CURRENT @ PIV		MAXIMUM FORWARD VOLTAGE @55°C I _O	MAX SURGE CURRENT 1 CYCLE I _{FS}	MAX REVERSE RECOVERY TIME T _{RR} *	MAXIMUM JUNCTION CAPACITANCE C _J	TYPICAL THERMAL IMPEDANCE
	PIV	I _O	I _O	I _R	I _R	V _F	I _{FS}	T _{RR} *	C _J	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	nsec	pf	°C/W
SHE 15F	1500	1500	750	1.0	25	6.5	60	150	15	10
SHE 20F	2000	1500	750	1.0	25	6.5	60	150	15	10
SHE 25F	2500	1500	750	1.0	25	6.5	60	150	15	10
SHE 30F	3000	800	400	1.0	25	9.5	40	150	12	13
SHE 40F	4000	800	400	1.0	25	9.5	40	150	12	13
SHE 50F	5000	800	400	1.0	25	9.5	40	150	12	13
SHE 60F	6000	500	250	1.0	25	13.0	25	150	8	15
SHE 80F	8000	500	250	1.0	25	13.0	25	150	8	15
SHE 100F	10000	500	250	1.0	25	13.0	25	150	8	15

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

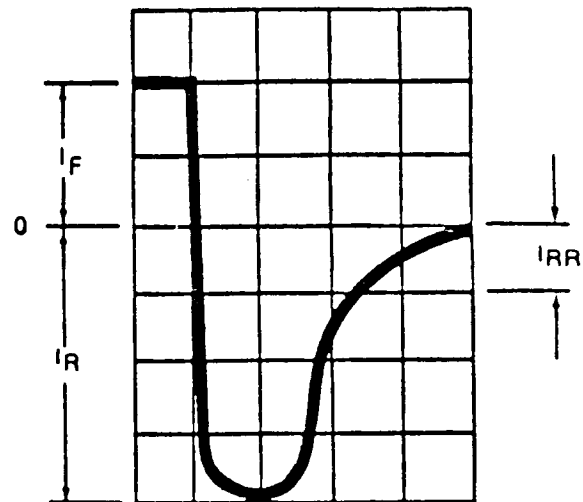
1. Operating and testing over 10,000 V/inch may require encapsulation or immersion in a suitable dielectric material.
2. Maximum forward voltage measured with instantaneous forward pulse of 8.3 ms.
3. Maximum lead temperature for soldering is 250°C, 3/8 inch from case for 5 seconds maximum.
4. Operating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

NOTE: All specifications subject to change without notice.

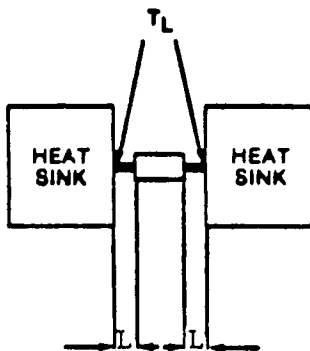
MAXIMUM FORWARD CURRENT VS. LEAD TEMPERATURE



REVERSE RECOVERY WAVE FORM



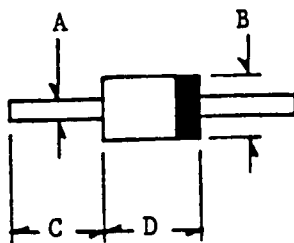
THERMAL IMPEDANCE
● J-L INFORMATION



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 = $.060 \pm .003$ DIA

B = $.200 \pm .015$ DIA

C = .4 MIN

D = $.250 \pm .015$ DIA

SSD SOLID STATE DEVICES, INC.