

X00198

SHB 15F THRU SHB 100F

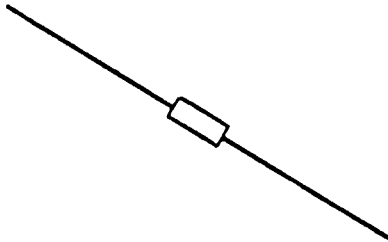
25-80 MA, HIGH VOLTAGE FAST RECOVERY RECTIFIER

1500-10,000 VOLTS

SSDII

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P. O. Box 577
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(213) 921-9660
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CASE STYLE K



FEATURES

- INJECTION MOLDED EPOXY PACKAGE
- SOLID SILVER LEADS
- MATCHED JUNCTION CHARACTERISTICS
- METALLURGICALLY BONDED JUNCTIONS
- SUBMINIATURE PACKAGE

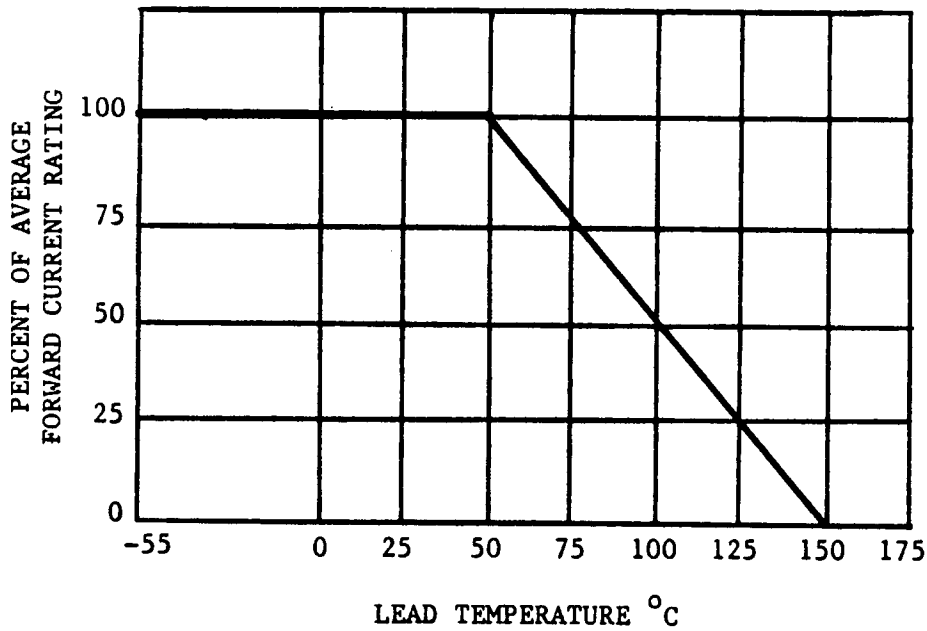
PART NUMBER	PEAK INVERSE VOLTAGE PIV	AVERAGE RECTIFIED CURRENT I _O		MAXIMUM REVERSE CURRENT @ PIV I _R		MAXIMUM FORWARD VOLTAGE @55°C I _O V _F	MAX SURGE CURRENT 1 CYCLE I _{FS}	MAX REVERSE RECOVERY TIME T _{RR} *	MAXIMUM JUNCTION CAPACITANCE C _J
		55°C	100°C	25°C	100°C				
	VOLTS	mA	mA	uA	uA	VOLTS	AMPS	nsec	pf
SHB 15F	1500	80	40	0.1	10	6.0	8	150	2
SHB 20F	2000	80	40	0.1	10	6.0	8	150	2
SHB 25F	2500	80	40	0.1	10	6.0	8	150	2
SHB 30F	3000	40	20	0.1	10	8.0	4	150	1
SHB 40F	4000	40	20	0.1	10	8.0	4	150	1
SHB 50F	5000	40	20	0.1	10	8.0	4	150	1
SHB 60F	6000	25	12.5	0.1	10	13.0	2	150	1
SHB 80F	8000	25	12.5	0.1	10	13.0	2	150	1
SHB 100F	10000	25	12.5	0.1	10	13.0	2	150	1

*Reverse recovery test conditions: I_F= 12.5 mA, I_R= 25 mA, I_{RR}= 6.25 mA.

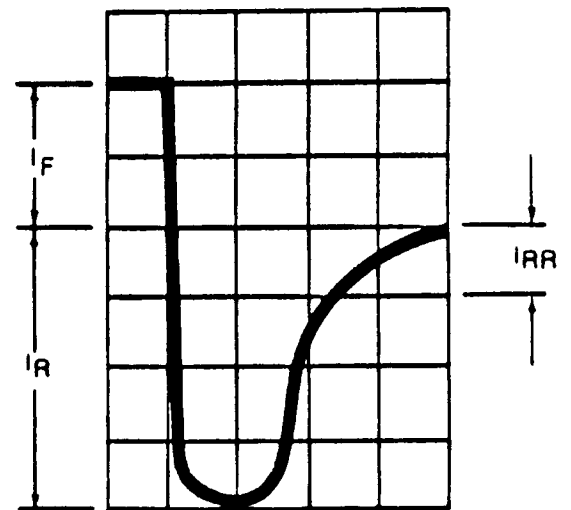
1. Operating and testing over 10,000 V/inch may require encapsulation or immersion in a suitable dielectric material.
2. Maximum forward voltage measured with instantaneous forward pulse of 8.3 ms.
3. Maximum lead temperature for soldering is 250°C, 3/8 inch from case for 5 seconds maximum.
4. Operating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

NOTE: All specifications subject to change without notice.

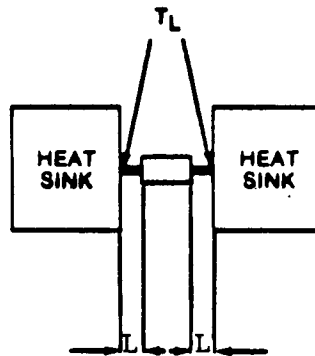
MAXIMUM FORWARD CURRENT VS. LEAD TEMPERATURE



REVERSE RECOVERY WAVE FORM



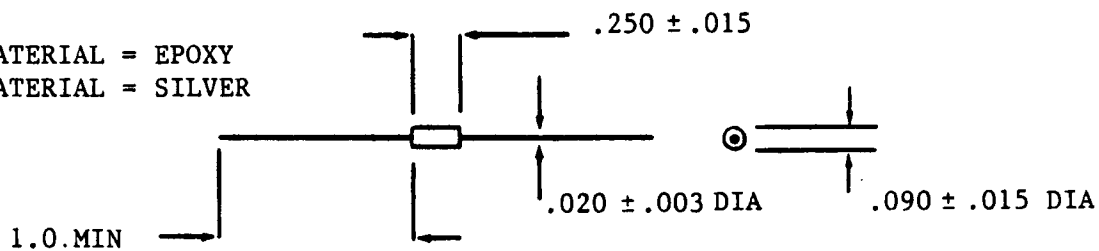
THERMAL IMPEDANCE
● J-L INFORMATION



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



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