

X00049



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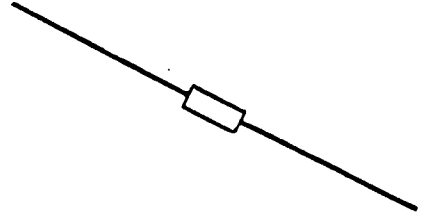
# SHB15UF THRU SHB100UF

## 25-80 MA, HIGH VOLTAGE

### ULTRA FAST RECOVERY RECTIFIER

## 1500-10,000 VOLTS

#### CASE STYLE K



#### FEATURES

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

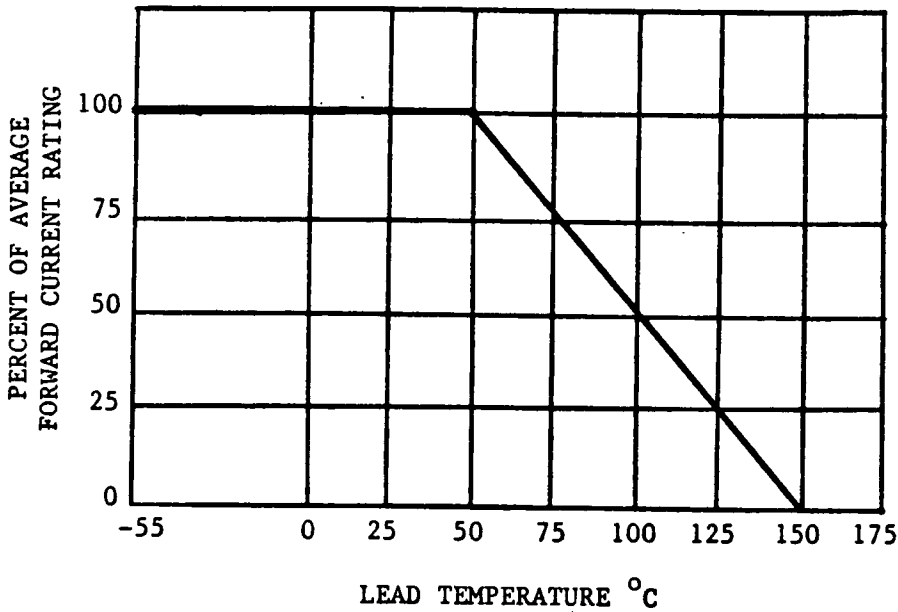
PART NUMBER	PEAK INVERSE VOLTAGE PIV	AVERAGE RECTIFIED CURRENT I <sub>O</sub>		MAXIMUM REVERSE CURRENT @ PIV I <sub>R</sub>		MAXIMUM FORWARD VOLTAGE @55°C I <sub>O</sub> V <sub>F</sub>	MAX SURGE CURRENT 1 CYCLE I <sub>FS</sub>	MAX REVERSE RECOVERY TIME T <sub>RR</sub> *	MAXIMUM JUNCTION CAPACITANCE C <sub>J</sub>
		55°C	100°C	25°C	100°C				
	VOLTS	mA	mA	uA	uA	VOLTS	AMPS	nsec	pf
SHB 15UF	1500	80	40	0.1	10	7.0	8	60	2
SHB 20UF	2000	80	40	0.1	10	7.0	8	60	2
SHB 25UF	2500	80	40	0.1	10	7.0	8	60	2
SHB 30UF	3000	40	20	0.1	10	9.0	4	60	1
SHB 40UF	4000	40	20	0.1	10	9.0	4	60	1
SHB 50UF	5000	40	20	0.1	10	9.0	4	60	1
SHB 60UF	6000	25	12.5	0.1	10	14.0	2	60	1
SHB 80UF	8000	25	12.5	0.1	10	14.0	2	60	1
SHB 100UF	10000	25	12.5	0.1	10	14.0	2	60	1

\*Reverse recovery test conditions: I<sub>F</sub>= 12.5 mA, I<sub>R</sub>= 25 mA, I<sub>RR</sub>= 6.25 mA.

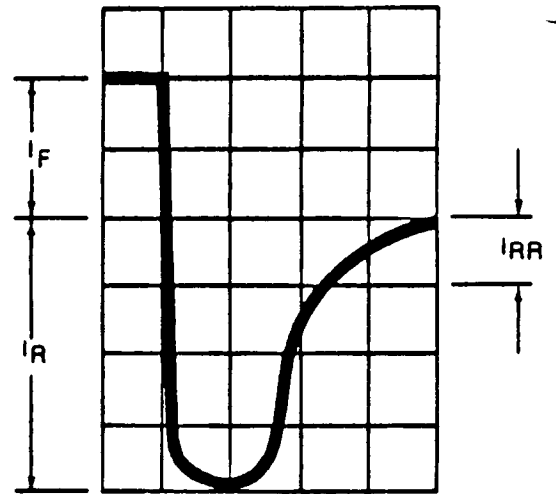
1. Operating and testing over 10,000 V/inch may require encapsulation or immersion in a suitable dielectric material.
2. Maximum forward voltage measured with instantaneous forward pulse of 8.3 ms.
3. Maximum lead temperature for soldering is 250°C, 3/8 inch from case for 5 seconds maximum.
4. Operating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

NOTE: All specifications subject to change without notice.

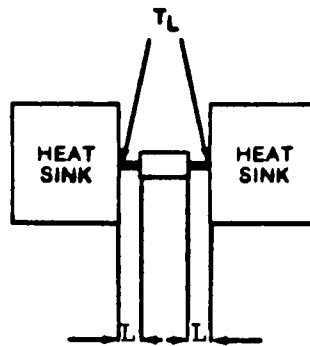
MAXIMUM FORWARD CURRENT VS. LEAD TEMPERATURE



REVERSE RECOVERY WAVE FORM



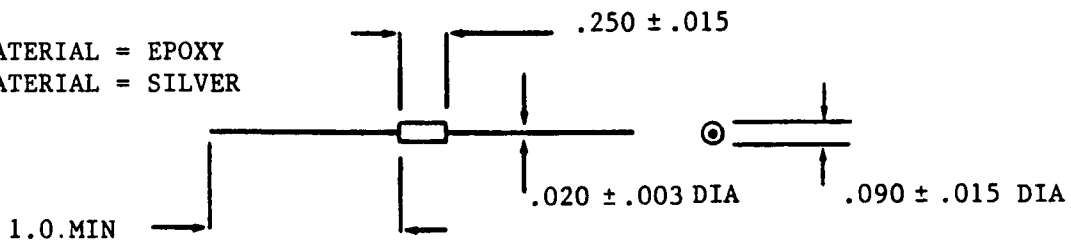
THERMAL IMPEDANCE  
● J-L INFORMATION



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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