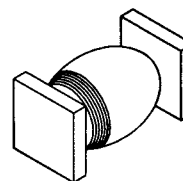




PRELIMINARY

SOLID STATE DEVICES, INC14849 Firestone Boulevard · La Mirada, CA 90638
Phone: (714) 670-SSDI (7734) · Fax: (714) 522-7424**Designer's Data Sheet****FEATURES:**

- Fast Recovery: 150 nsec Maximum
- PIV to 4000 Volts
- Hermetically Sealed Surface Mount package
- Void-Free Construction
- Metallurgically bonded
- 175°C Maximum Operating Temperature
- TX, TXV, and Space Level Screening Available

**SHB15FSMS
thru
SHB40FSMS****65-80mA
1500-4000 Volts
150nsec
HIGH VOLTAGE
RECTIFIER****SURFACE MOUNT
SQUARE TAB****ELECTRICAL CHARACTERISTICS**

Part Number	Peak Inverse Voltage	Average Rectified Current		Maximum Reverse Current @ PIV		Maximum Forward Voltage @ 55°C IO	Maximum Surge Current 1 Cycle	Maximum Reverse Recovery Time	Maximum Junction Capacitance	Typical Thermal Impedance
SYMBOL	PIV	IO		IR		VF	IFSM	trr	CJ, fT=1MHz	θJE
UNITS	Volts	25°C mA	100°C mA	25°C μA	100°C μA	25°C Volts	25°C Amps	25°C nsec	@ 100 Volts pf	°C/W
SHB15FSMS	1500	80	50	0.15	5	9	5	150	1	165
SHB20FSMS	2000	80	50	0.15	5	9	5	150	1	165
SHB25FSMS	2500	80	50	0.15	5	9	5	150	1	165
SHB30FSMS	3000	65	40	0.15	5	10	5	150	1	165
SHB35FSMS	3500	65	40	0.15	5	10	5	150	1	165
SHB40FSMS	4000	65	40	0.15	5	10	5	150	1	165

NOTES:

- Operating and testing over 10,000 V/inch may require encapsulation or immersion in a suitable dielectric material.
- Max. forward voltage measured with instantaneous forward pulse of 300μsec minimum.
- Max. End Tab temp. for soldering is 250°C, for 5 sec maximum.
- Operating and storage temperature: -65°C to +175°C
- Reverse Recovery Test Conditions: IF=50mA, IR=100mA, IRR=25mA, TA=25°C

NOTE: All specifications are subject to change without notification.
SCD's for these devices should be reviewed by SSDI prior to release.**DATA SHEET #: RV0001 B****RMD**

SHB15FSMS thru SHB40FSMS

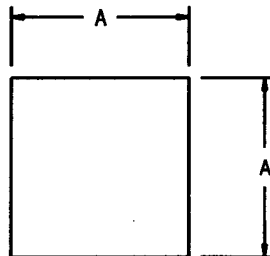
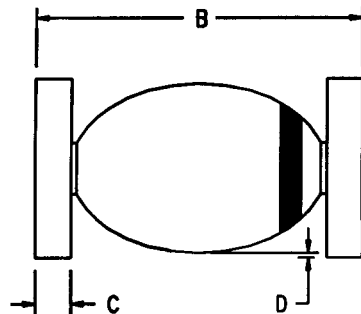
PRELIMINARY



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PACKAGE OUTLINE:

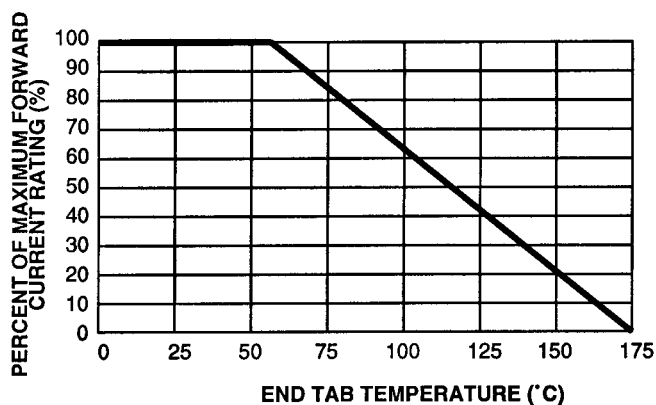


DIMENSIONS		
DIM	MIN	MAX
A	.090"	.110"
B	.150"	.210"
C	.022"	.028"
D	.002"	---

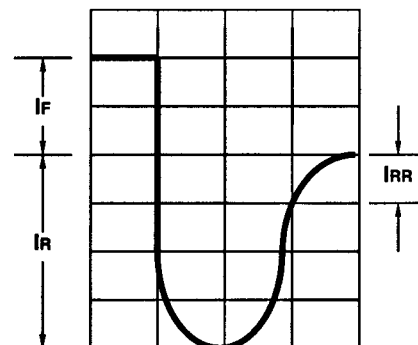
Dimensions prior to solder dipping.

TYPICAL OPERATING CURVES

TA=25°C Unless otherwise specified



REVERSE RECOVERY WAVE FORM



FORWARD VOLTAGE vs. FORWARD CURRENT

