SOLID STATE DEVICES, INC.
14830 Valley View Blvd * La Mirada, Ca 90638
Phone: (562) 404-7855 * Fax: (562) 404-1773
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SGB10UF thru SGB35UF

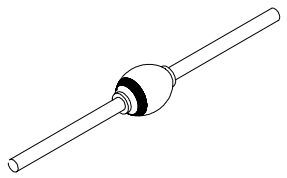
60 mAMPS 1000 - 3500 VOLTS 60 nsec HIGH VOLTAGE RECTIFIER

Designer's Data Sheet

FEATURES:

- **Ultra Fast Recovery: 60 nsec Maximum**
- **PIV to 3 500 Volts**
- **Hermetically Sealed**
- **Void-Free Construction**
- **Metallurgically Bonded**
- **175°C Maximum Operating Temperature**
- **TX, TXV, and Space Level Screening Available**

AXIAL



ELECTRICAL CHARACHTERISTICS

Part Number	Peak Inverse Voltage	Average Rectified Current		Maximum Reverse Current		Maximum Forward Voltage	Maximum Surge Current (1 Cycle)	Maximum Reverse Recovery Time	Maximum Junction Capacitance	Typical Thermal Impedance
Symbol	**PIV**	**I_0**		**I_R @ PIV**		**V_F** [2/]	**I_{FSM}**	**t_{RR}** [5/]	**C_J**	**θ_{JL}**
Units	**Volts**	**mA**		**µA**		**Volts**	**Amps**	**nsec**	**pF**	**°C/W**
Conditions		25°C	100°C	25°C	100°C	25°C	25°C	25°C	V_R = 100V f_T = 1MHZ	L = 1/4"
SGB10UF	1000	60	45	0.1	10	9	5	60	1.0	185
SGB15UF	1500	60	45	0.1	10	9	5	60	1.0	185
SGB20UF	2000	60	45	0.1	10	9	5	60	1.0	185
SGB25UF	2500	60	45	0.1	10	9	5	60	1.0	185
SGB30UF	3000	60	45	0.1	10	9	5	60	1.0	185
SGB35UF	3500	60	45	0.1	10	9	5	60	1.0	185

NOTE: All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release.

DATA SHEET # : RV0003B

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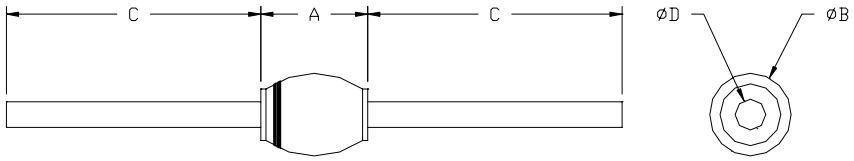
PACKAGE OUTLINE:
AXIAL RECTIFIER

DIMENSIONS		
DIM	MIN	MAX
A	--	.150"
B	--	.080"
C	1.00"	--
D	.022"	.028"



NOTES:

1. Operating and testing over 10,000 V/inch may require encapsulation or immersion in suitable dielectric material.
2. $I_F = I_0$; Maximum forward voltage measured with instantaneous forward pulse of 300µsec minimum.
3. Maximum lead temperature for soldering is 250°C, 3/8" from case for 5 sec maximum.
4. Operating and Storage temperature: -65 to +175°C.
5. Reverse Recovery Test Conditions: I_F = 50mA, I_R = 100mA, I_{RR} = 25mA, T_A = 25°C.
6. Consult manufacturing for operating curves.