Technical Data
Data Sheet N2836, Rev. -

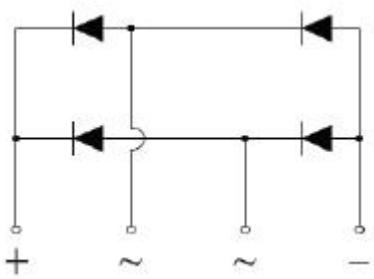
GBL4A THRU GBL4M
Reverse Voltage 50~1000V Output Current 4.0A

GBL

Features

- Glass passivated Bridge Rectifiers
- Ideal for PCB
- High surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds
- Halogen-free according to IEC 61249-2-21 definition
- This is a Pb − Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram



Mechanical Data

- Case:GBL, Molding compound meets UL 94V-0 flammability rating
- Terminals: Matte tin plated leads, solderable per
- MII-STD-750 Method 2026, J-STD-002 and JESD22-B102, meets JESD 201 class 1A whisker test

Maximum Ratings:@T_A=25°C unless otherwise specified

Type Number	Symbol	GBL4A	GBL4B	GBL4D	GBL4G	GBL4J	GBL4K	GBL4M	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_{DC}	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum average forward rectified T_C=50℃ output current at T_A=40℃	I_O	4(1) 3(2)							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	150							A
Rating for fusing (t≤8.3ms)	I^2t	94							A^2s
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150							℃

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Electrical Characteristics@T_A = 25°C unless otherwise noted

Type Number	Symbol	GBL4A	GBL4B	GBL4D	GBL4G	GBL4J	GBL4K	GBL4M	Units
Maximum Forward Voltage @I_F =2A, T_A = 25°C	V_F	1.0							V
Peak Reverse Current @T_A = 25°C At Rated DC Blocking Voltage @T_A = 125°C	I_{RM}	5 250							μA
Typical Thermal Resistance(1)	$R_{\theta JC}$ $R_{\theta JA}$	47 10							°C/W

1. Unit mounted on 3.0x3.0x0.11" thick (7.5x7.5x0.3cm) Aluminum plate.
2. Unit mounted on P.C.B at 0.375"(9.5mm) lead length and 0.5x0.5"(12x12mm) copper pads.

Ratings and Characteristics Curves

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

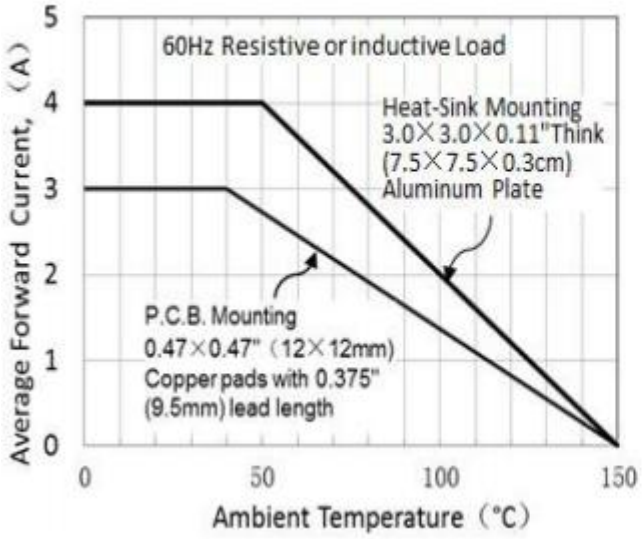

FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISITCS

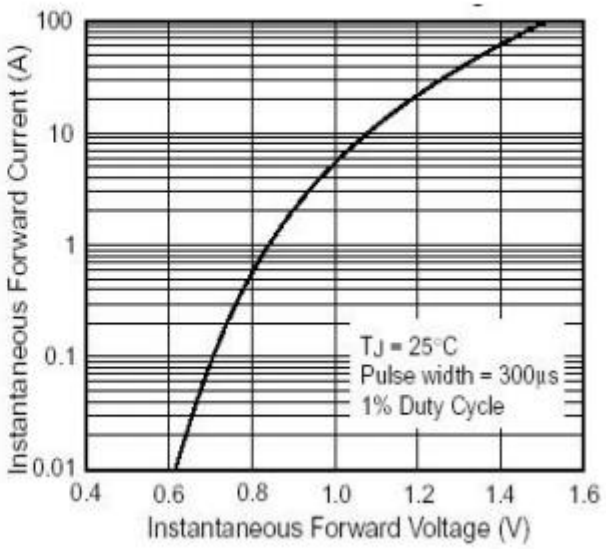

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FIG.3-TYPICAL REAK REVERSE VOLTAGE CHARACTERISTICS

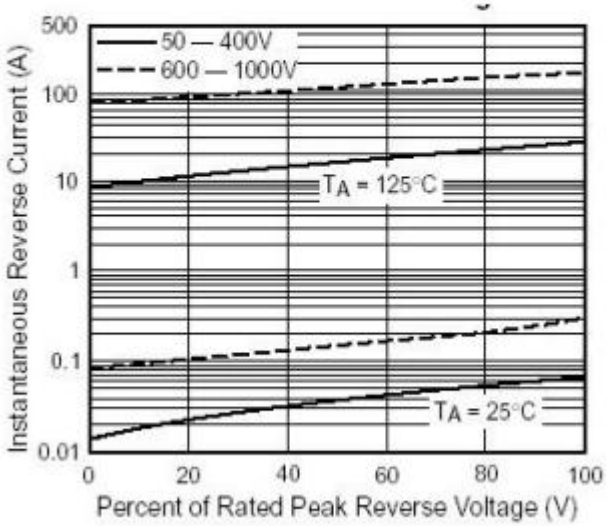
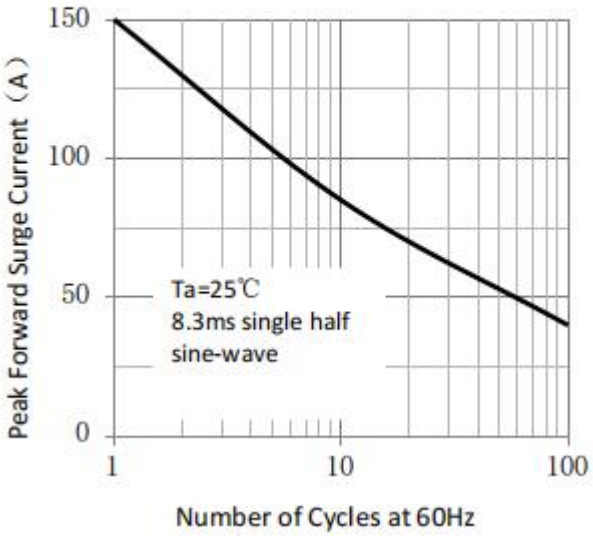


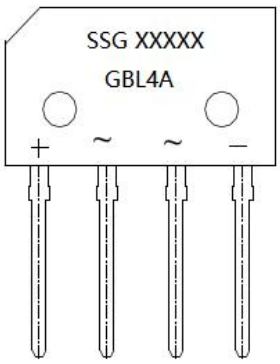
FIG.4-MAXIMUM NON-REPETITEVE PEAK FORWARD SUGER CURRENT



Ordering Information

Device	Package	Plating	Shipping
GBL4A THRU GBL4M	GBL	Pure Sn	30pcs / tube

Marking Diagram



Where XXXXX is YYWWL

GBL4A	= Type Number
SSG	= SSG
YY	= Year
WW	= Week
L	= Lot Number

Cautions: Molding resin
Epoxy resin UL:94V-0

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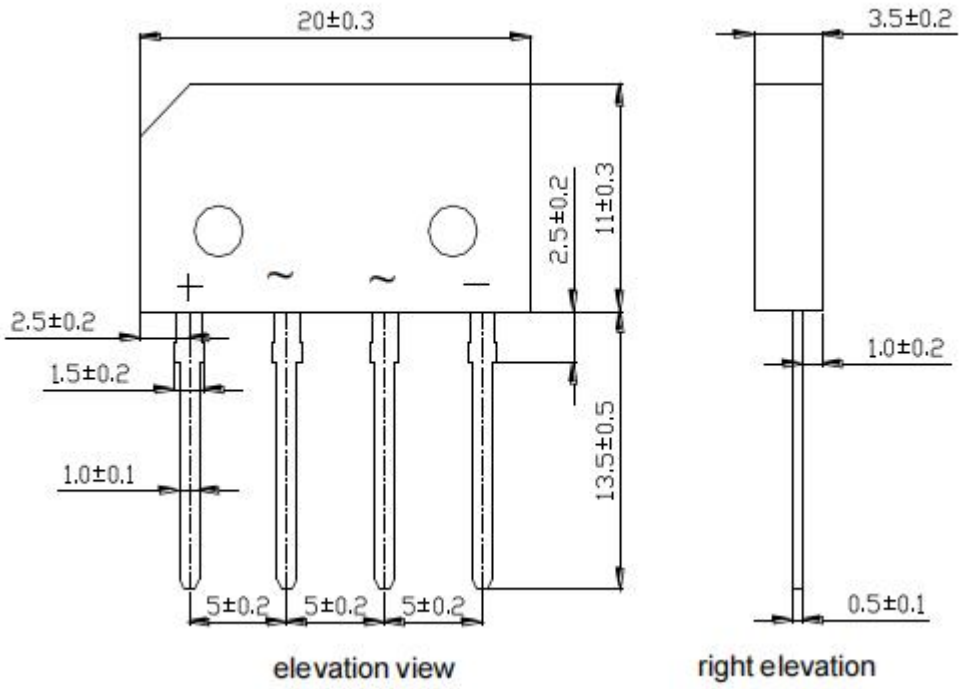
Mechanical Dimensions GBL (MM)



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