

8 A Glass Passivated Bridge Rectifier

Features

- Glass Passivated Chip Junction
- Low Forward Voltage Drop
- High Reliability
- Ideal for Printed Circuit Boards
- High temperature soldering guaranteed: 260°C/10 seconds at 5lbs.(2.3kg) tension
- This series is UL recognized under component index, File number E194718
- RoHS compliant



GBU



Mechanical Data

Case:	GBU, Epoxy meets UL 94V-0 flammability rating
Terminals:	Leads solderable per MIL-STD-750, Method 2026
Polarity:	Polarity symbols marked on case
Mounting Torque:	5 in. – lbs. max.
Weight:	0.14 ounce, 4.0 grams

Maximum Ratings And Electrical Characteristics ($T_{amb}=25^{\circ}\text{C}$)

Symbols	Parameter		GBU 8A	GBU 8B	GBU 8D	GBU 8G	GBU 8J	GBU 8K	GBU 8M	Unit
V _{RRM}	Maximum Repetitive Peak Reverse Voltage		50	100	200	400	600	800	1000	V
V _{RMS}	Maximum RMS Input Voltage		35	70	140	280	420	560	700	V
V _{DC}	Maximum DC Blocking Voltage		50	100	200	400	600	800	1000	V
I _(AV)	Maximum Average Forward Rectified Output Current at T _A =100°C (Note 1)		8.0							A
I _{FSM}	Peak Forward Surge Current Single Sine-wave Superimposed on Rated Load (JEDEC Method)		200							A
V _F	Maximum Instantaneous Forward Voltage Drop per leg at 8.0A		1.05							V
I _R	Maximum DC Reverse Current at Rated DC Blocking Voltage per leg	T _A =25°C	5.0							μA
		T _A =125°C	500							

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GBU8A - GBU8M

Symbols	Parameter	GBU 8A	GBU 8B	GBU 8D	GBU 8G	GBU 8J	GBU 8K	GBU 8M	Unit
I_t^2	Rating for Fusing ($1\text{ms} < t < 8.3\text{ms}$)	166							A^2s
$R_{\theta JA}$	Typical Thermal Resistance per leg (Note 2)	21							$^{\circ}\text{C/W}$
$R_{\theta JC}$	Typical Thermal Resistance per leg (Note 1)	2.2							$^{\circ}\text{C/W}$
T_J, T_{STG}	Operating and Storage Temperature Range	-55 to 150							$^{\circ}\text{C}$

Note:

1. Mounted on 82 x 82 x 3.0mm Al. plate
 2. Mounted on PCB at 9.5mm lead length with 12mm² copper pad
 3. Single Phase, half wave, 60 Hz, resistive or inductive load.
- For capacitive load, derate current by 20%

Rating and Characteristic Curves

Fig.1- Derating Curve Output Rectified Current

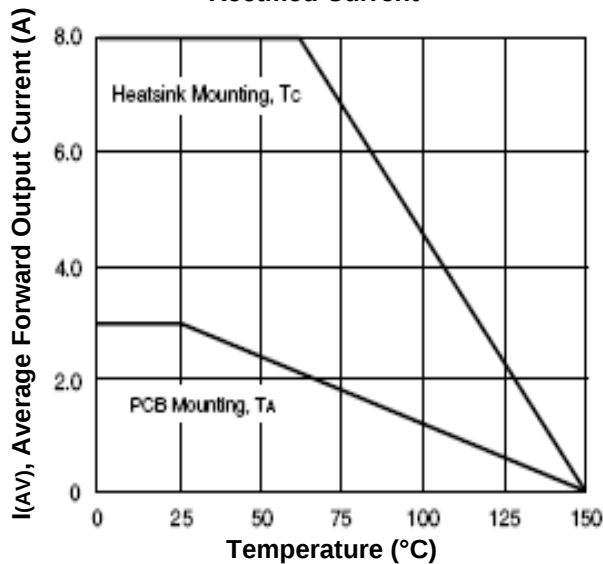
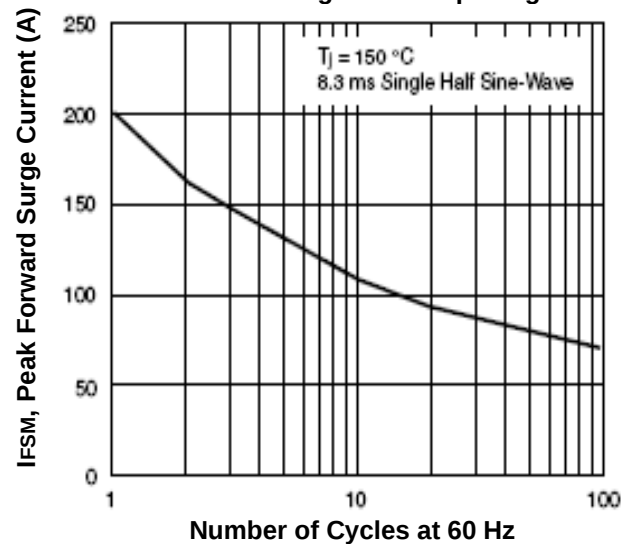


Fig.2-Maximum Non-Repetitive Peak Forward Surge Current per leg



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Fig.3- Typical Forward Characteristics
per leg

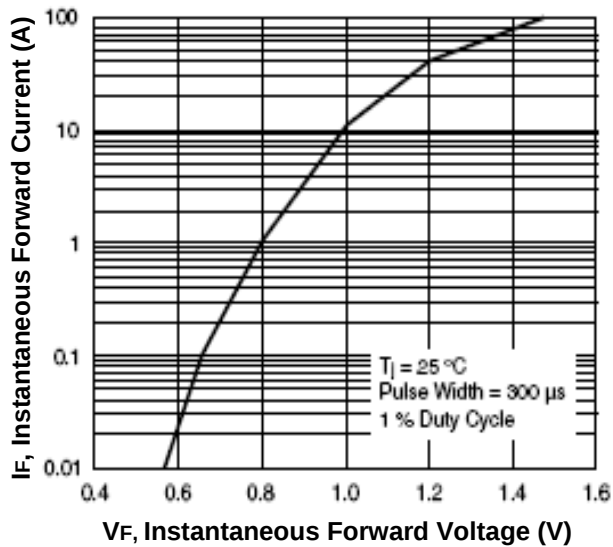
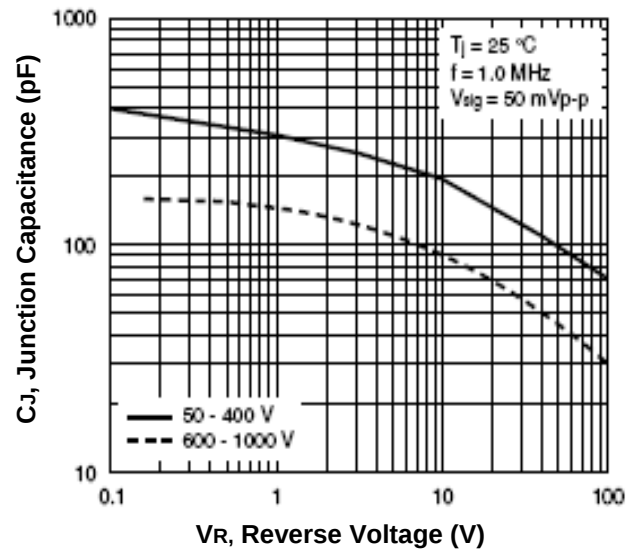
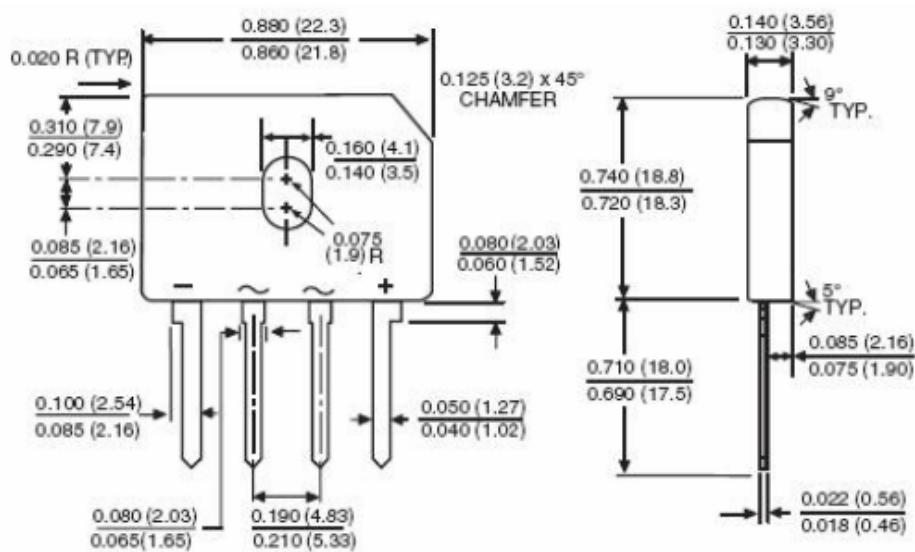


Fig.4-Typical Junction Capacitance
per leg



Dimensions in inch (mm)

Case Type GBU



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