

GBJ25A THRU GBJ25M-HAF

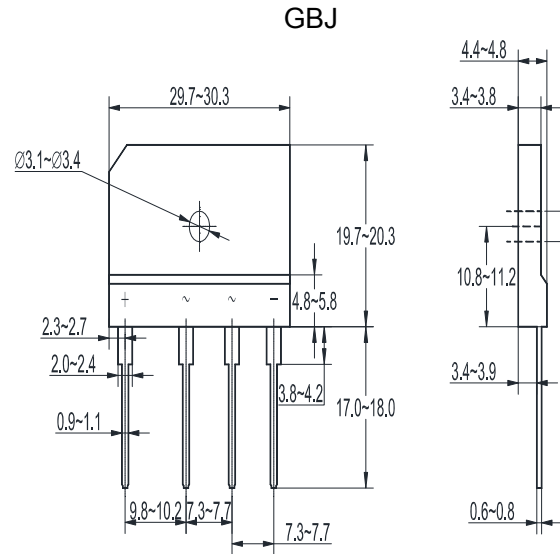
Glass Passivated Single Phase Bridge Rectifiers Reverse Voltage - 50 to 1000 V Forward Current - 25 A

Features

- Thin Single In-Line package
- Ideal for printed circuit boards
- Glass passivated chip junction
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Halogen and Antimony Free(HAF), RoHS compliant

Mechanical Data

- Case: GBJ
- Terminals: Plated leads solderable per MIL-STD-750 Method 2026
- Polarity: As marked on body



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbols	GBJ25A	GBJ25B	GBJ25D	GBJ25G	GBJ25J	GBJ25K	GBJ25M	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current at $T_C = 98\text{ }^{\circ}\text{C}$	$I_{F(AV)}$	25							A
Peak Forward Surge Current, 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	350							A
Maximum Forward Voltage per Leg at 12.5 A	V_F	1							V
Maximum DC Reverse Current $T_A = 25\text{ }^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_A = 125\text{ }^{\circ}\text{C}$	I_R	5 250							μA
Operating Junction and Storage Temperature Range	T_j, T_{stg}	- 55 to + 150							$^{\circ}\text{C}$

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Dated : 16/08/2016 GD Rev:02

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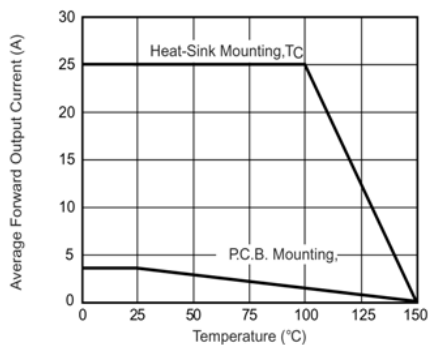


Figure 1. Derating Curve Output Rectified Current

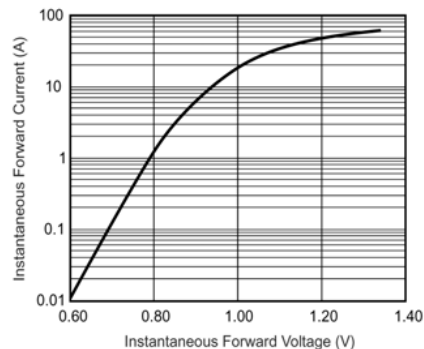


Figure 3. Typical Forward Characteristics Per Leg

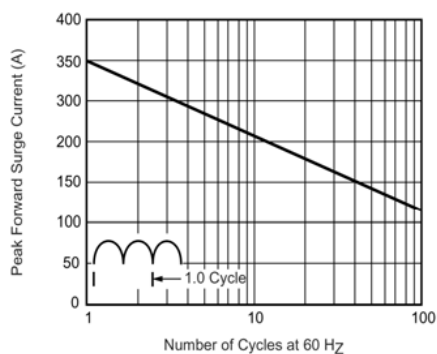


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Leg

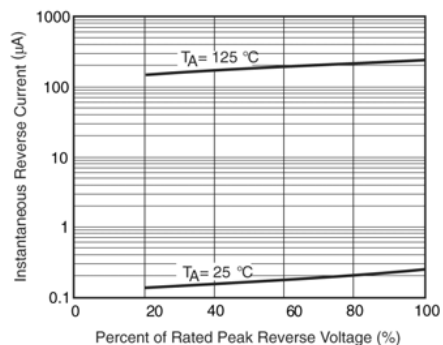


Figure 4. Typical Reverse Characteristics Per Leg

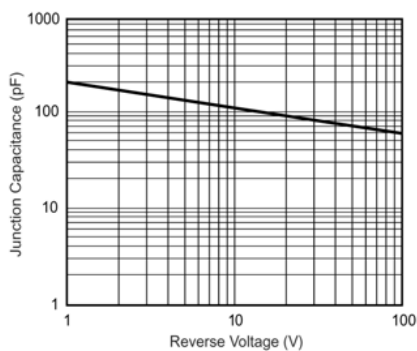


Figure 5. Typical Junction Capacitance Per Leg

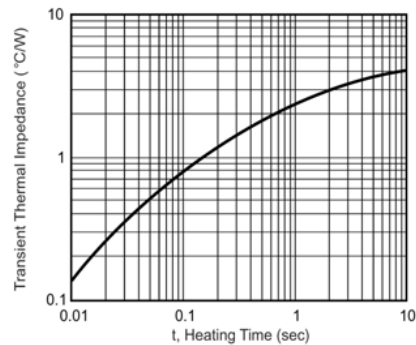


Figure 6. Typical Transient Thermal Impedance

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