

GBJ25A THRU GBJ25M

GLASS PASSIVATED SINGLE PHASE BRIDGE RECTIFIERS

Reverse Voltage - 50 to 1000 V

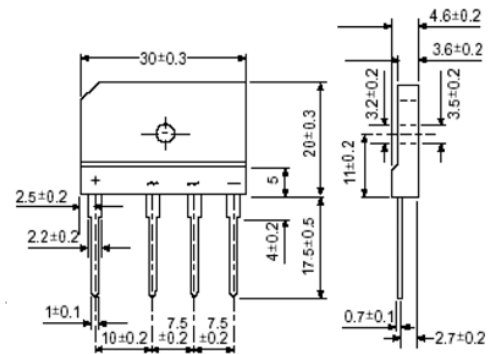
Forward Current - 25 A

Features

- Thin Single In-Line package
- Ideal for printed circuit boards
- Glass passivated chip junction
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0

Mechanical Data

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

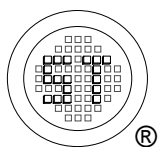


Package outline dimensions in millimeters

Maximum Ratings and Electrical Characteristics

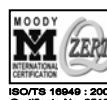
Ratings at 25 °C ambient temperature unless otherwise specified.

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 at Rated DC Blocking Voltage	$T_A = 25\text{ }^\circ\text{C}$	5							μA
	$T_A = 125\text{ }^\circ\text{C}$	250							
Operating Junction and Storage Temperature Range	T_j, T_{stg}	- 55 to + 150							$^\circ\text{C}$



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ISO/TS 16949 : 2002
Certificate No. 05103

ISO 14001:2004
Certificate No. 7116

ISO 9001:2000
Certificate No. 0506098

BS-OHSAS 18001: 2007
Certificate No. 7116

IECQ QC 080000
Certificate No. 7116

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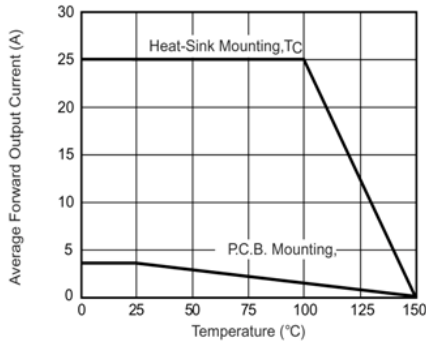


Figure 1. Derating Curve Output Rectified Current

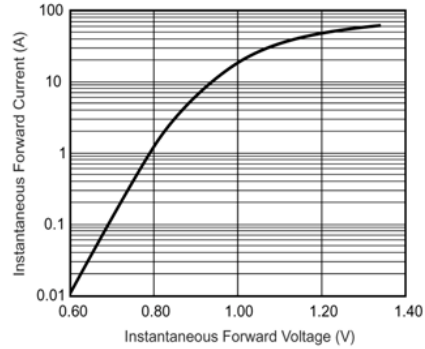


Figure 3. Typical Forward Characteristics Per Leg

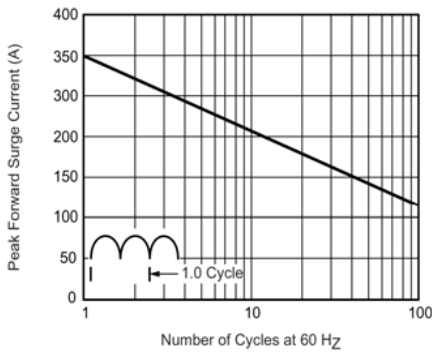


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Leg

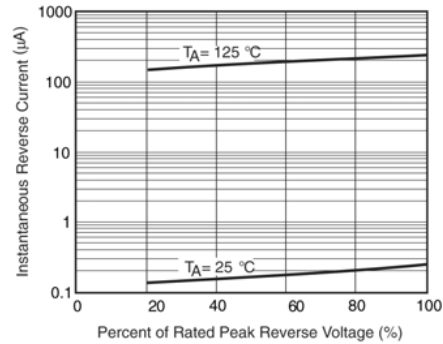


Figure 4. Typical Reverse Characteristics Per Leg

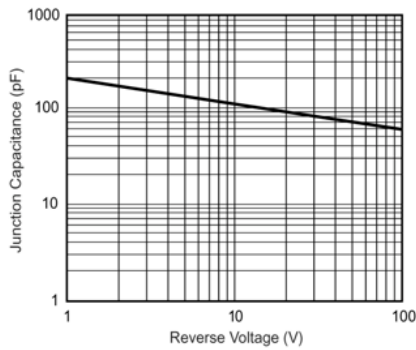


Figure 5. Typical Junction Capacitance Per Leg

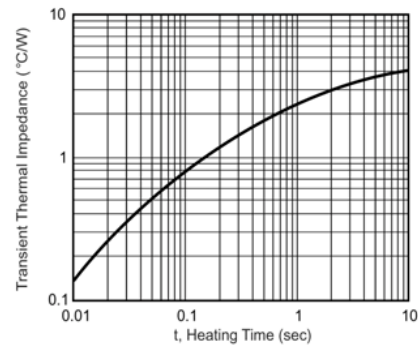
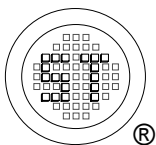


Figure 6. Typical Transient Thermal Impedance



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