

GBJ25A THRU GBJ25M

GLASS PASSIVATED SINGLE PHASE BRIDGE RECTIFIERS

Reverse Voltage - 50 to 1000 V

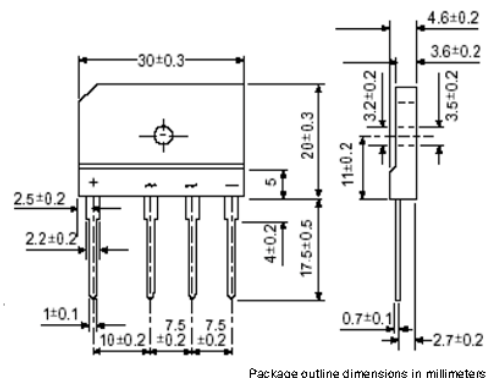
Forward Current - 25 A

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

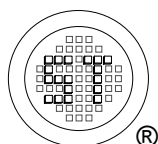


Package outline dimensions in millimeters

Maximum Ratings and Electrical Characteristics

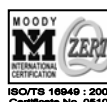
Ratings at 25 °C ambient temperature unless otherwise specified.

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 °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 °C	I _R	5							μA
	T _A = 125 °C		250							
Operating Junction and Storage Temperature Range		T _j , T _{stg}	- 55 to + 150							°C



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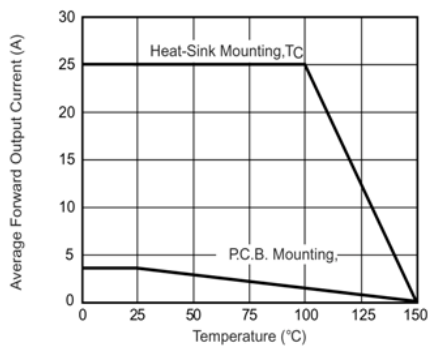


Figure 1. Derating Curve Output Rectified Current

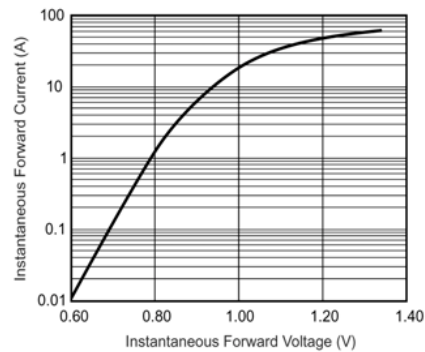


Figure 3. Typical Forward Characteristics Per Leg

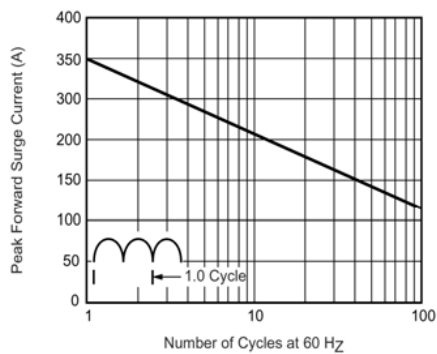


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Leg

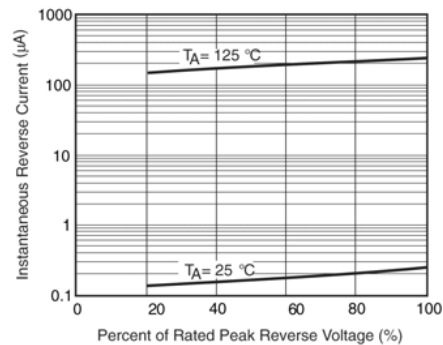


Figure 4. Typical Reverse Characteristics Per Leg

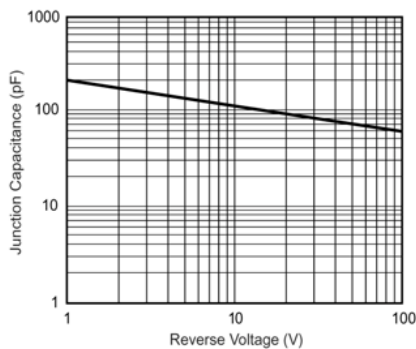


Figure 5. Typical Junction Capacitance Per Leg

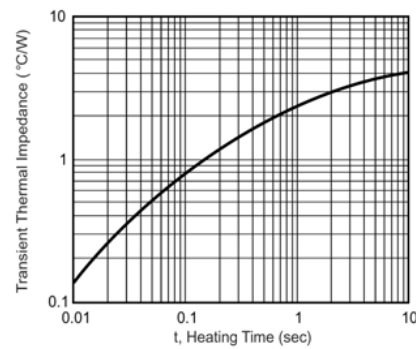
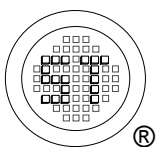


Figure 6. Typical Transient Thermal Impedance



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