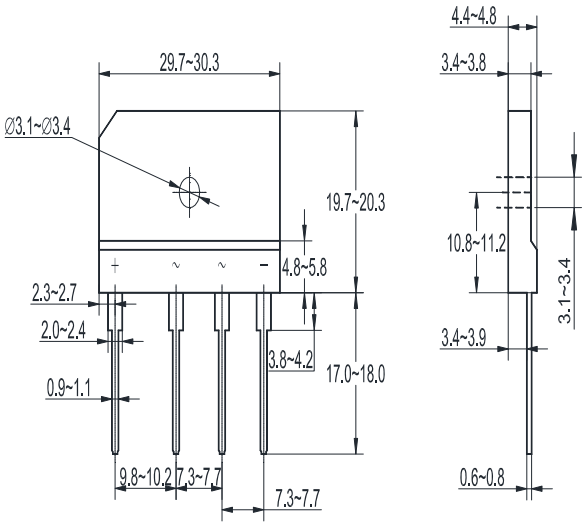
GBJ25A THRU GBJ25M

GLASS PASSIVATED SINGLE PHASE BRIDGE RECTIFIERS
Reverse Voltage - 50 to 1000 V
Forward Current - 25 A

GBJ



Dimensions in inches and (millimeters)

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

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

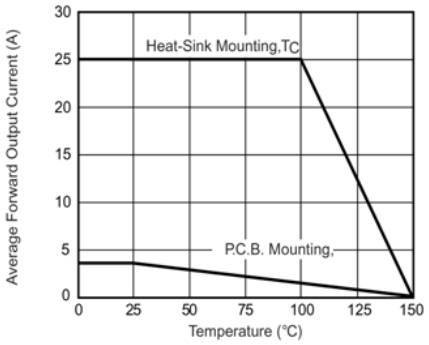


Figure 1. Derating Curve Output Rectified Current

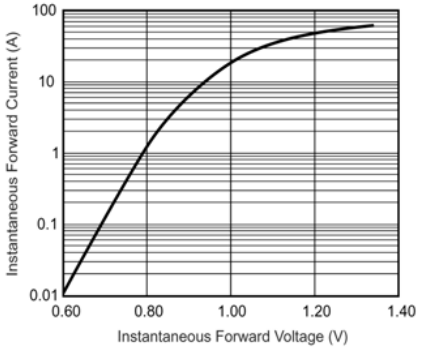


Figure 3. Typical Forward Characteristics Per Leg

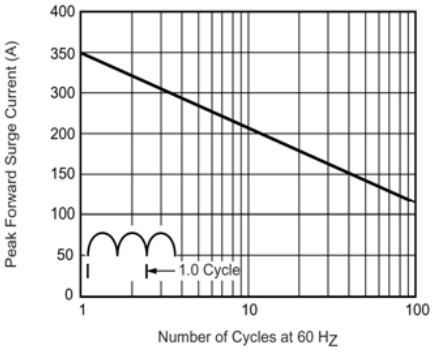


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Leg

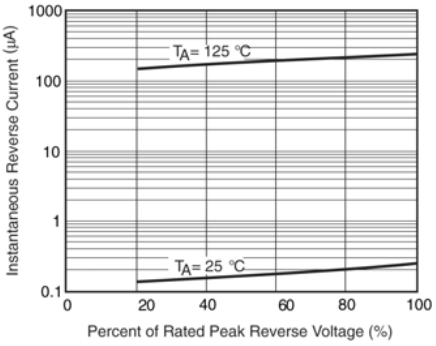


Figure 4. Typical Reverse Characteristics Per Leg

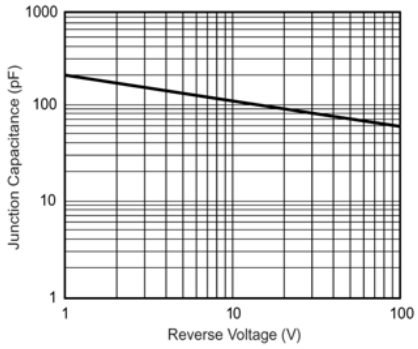


Figure 5. Typical Junction Capacitance Per Leg

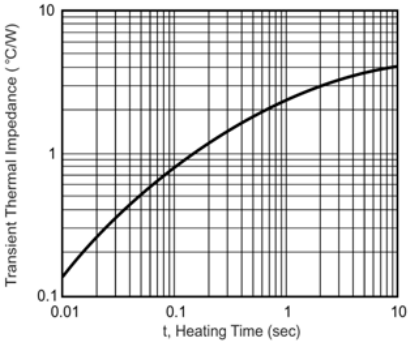


Figure 6. Typical Transient Thermal Impedance