

# GBJ2500 THRU GBJ2510

## BRIDGE RECTIFIERS

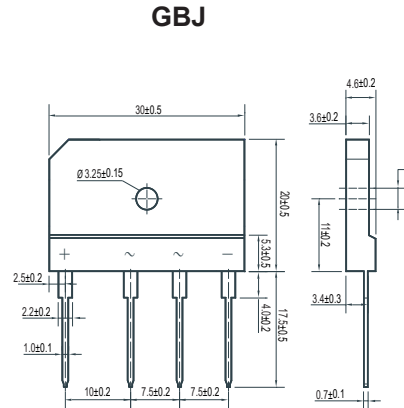
Reverse Voltage - 50 to 1000 Volts Forward Current - 25.0 Ampers

### FEATURES

- Glass passivated chip junctions
- Low reverse current operation
- High Junction Temperature
- High Forward Surge Capability
- Lead free in compliance with EU RoHS
- 2011/65/EU directive

### MECHANICAL DATA

- Package:6GBJ/6KBJ
- Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: As marked on body



Dimensions in millimeters

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.  
Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Characteristics	Symbol	GBJ 2500	GBJ 2501	GBJ 2502	GBJ 2504	GBJ 2506	GBJ 2508	GBJ 2510	Unit
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T <sub>A</sub> =50 °C (Note1)	I <sub>(AV)</sub>	25.0							A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	300							A
I <sup>2</sup> t Rating for Fusing (t<8.3mS)	I <sup>2</sup> t	370							A <sup>2</sup> s
Peak Forward Voltage per Diode at 12.5A DC	V <sub>F</sub>	1.1							V
Maximum DC Reverse Current at Rated @T <sub>J</sub> =25°C DC Blocking Voltage per Diode @T <sub>J</sub> =100°C	I <sub>R</sub>	5.0 500							μA
Operating Junction Temperature Range	T <sub>J</sub>	-55 to +150							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							°C

Note: Mounting conditions, 0.5" lead length maximum.

