GBJ25005 THRU GBJ2510

GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER



REVERSE VOLTAGE: 50 to 1000 VOLTS FORWARD CURRENT: 25.0 AMPERE

FEATURES

· Glass passivated chip junction

· Ideal for printed circuit board

Plastic material has Underwriters Laboratory
 Flammability Classification 94V-0

· Reliable low cost construction

· High surge current capability

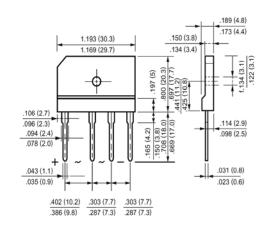
MECHANICAL DATA

Case: Molded plastic, GBJ

Epoxy: UL 94V-O rate flame retardant

Terminals: Leads solderable per MIL-STD-202,

method 208 guaranteed Mounting position: Any Weight: 0.23ounce, 6.6gram GBJ



Dimensions in inches and (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, derate current by 20%.

	Symbols	GBJ25005	GBJ2501	GBJ2502	GBJ2504	GBJ2506	GBJ2508	GBJ2510	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current with Heatsink at T_C =100 $^{\circ}$ C	I _(AV)	25.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	300							Amp
Maximum Forward Voltage Drop per Element at 12.5A DC and 25℃	$\mathbf{V_F}$	1.05							Volts
Maximum Reverse Current at T_A =25°C at Rated DC Blocking Voltage T_A =125°C	I_R	10.0 500							uAmp
Typical Junction Capacitance (Note 1)	C _J	85							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	0.6							°C/W
Operating and Storage Temperature Range	T _J , Tstg	-55 to +150							°C

NOTES:

- 1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2- Thermal Resistance from Junction to Case with Device Mounted on 300mm x 300mm x 1.6mmCu Plate Heatsink.



RATINGS AND CHARACTERISTIC CURVES

