GBJ60X SERIES

GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

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GBJ6005 THRU GBJ610

GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER





REVERSE VOLTAGE: FORWARD CURRENT:

50 to 1000 VOLTS

6.0 AMPERE

FEATURES

· Glass passivated chip junction

· Reliable low cost construction utilizing molded plastic technique

- · Ideal for printed circuit board
- · Low forward voltage drop
- · Low reverse leakage current
- · High surge current capability

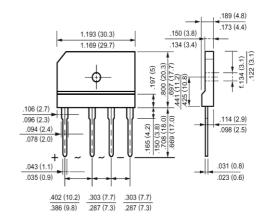
MECHANICAL DATA

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 ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbols	GBJ6005	GBJ601	GBJ602	GBJ604	GBJ606	GBJ608	GBJ610	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 =110	I _(AV)	6.0							Amp
Peak Forward Surge Current,	T	I _{FSM} 150							Amn
8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	1FSM	1 _{FSM} 150							Amp
Maximum Forward Voltage Drop per Element at 3.0A DC and 25	V_{F}	1.0							Volts
Maximum Reverse Current at T _A =25		5.0							uAmp
at Rated DC Blocking Voltage T _A =125	IR	$I_{\mathbf{R}}$ 500							
Typical Junction Capacitance (Note 1)	$C_{\mathbf{J}}$	55							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	1.8							/W
Operating and Storage Temperature Range	T _J , Tstg	-55 to +150							

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 75mm x 75mm x 1.6mmCu Plate Heatsink.





RATINGS AND CHARACTERISTIC CURVES

