GBJ15005 THRU GBJ1510

GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

REVERSE VOLTAGE: 50 to 1000 V

FORWARD CURRENT: 15 A

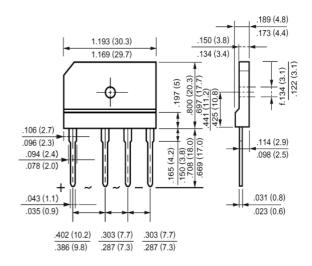
GBJ

Features

- · Glass passivated chip junction
- Reliable low cost construction utilizing molded plastic technique
- · Ideal for printed circuit board
- Low reverse leakage current
- · Low forward voltage drop
- · High surge current capabiliy

Mechanical data

- Case:Molded plastic, GBJ
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Leads solderable per MIL-STD-202 method 208 guaranteed
- Mounting Position: Any



Dimensions in inches and (millimeters)

Absolute Maximum Ratings and Characteristics

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

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Parameter	Symbols	GBJ	GBJ	GBJ	GBJ	GBJ	GBJ	GBJ	Units
		15005	1501	1502	1504	1506	1508	1510	
Maximum Recurrent 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 Current with	Lus	15							Α
Heatsink at T _C = 100 °C	I _(AV)								
Peak Forward Surge Current, 8.3 ms Single Half-Sine	I _{FSM}	200							Α
-Wave superimposed on rated load (JEDEC Method)									
Maximum Forward Voltage at 7.5 A DC and 25 °C	V _F	1.05							V
Maximum Reverse Current at T _A = 25°C		10							μA
at Rated DC Blocking Voltage T _A = 125°C	I _R	500							
Typical Junction Capacitance 1)	CJ	60							pF
Typical Thermal Resistance 2)	$R_{\theta JC}$	0.8							°C/W
Operating and Storage Temperature Range	T_J,T_S	-55 to +150							°C

¹⁾ Measured at 1 MHz and applied reverse voltage of 4 VDC.

²⁾ Thermal resistance from junction to case with device mounted on 300 mm X 300 mm X 1.6 mm Cu plate heatsink.

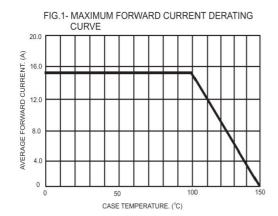


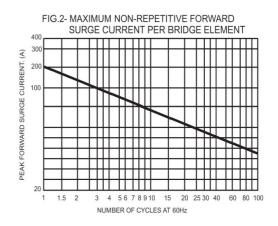


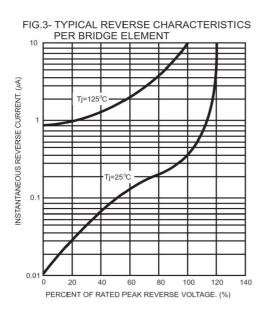


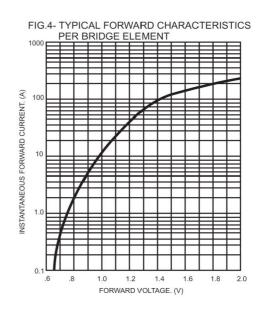


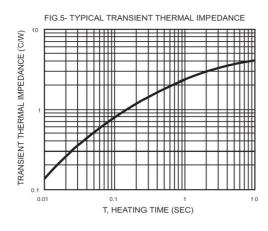




















ISO/TS 16949 : 2002 ISO 14001:2004 ISO 9001:2000 Certificate No. 05103 Certificate No. 7116 Certificate No. 0506098