

# **GBJ10005 THRU GBJ1010**

#### SINGLE PHASE 10.0AMP GLASS PASSIVATED BRIDGE RECTIFIER

#### **Features**

· Glass passivated die construction

· Low forward voltage drop

· High current capability

· High surge current capability

· Plastic material-UL flammability 94V-0

### **Mechanical Data**

· Case: Molded plastic, GBJ

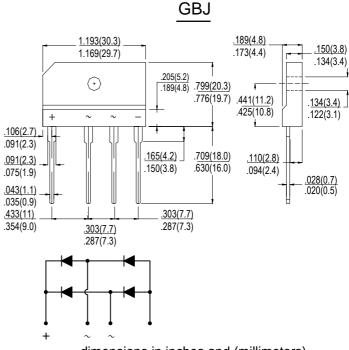
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: As Marked on Case

Mounting Position: Any

Marking: Type Number

Lead Free: For RoHS / Lead Free Version



dimensions in inches and (millimeters)

### **Maximum Ratings and Electrical Characteristics**

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

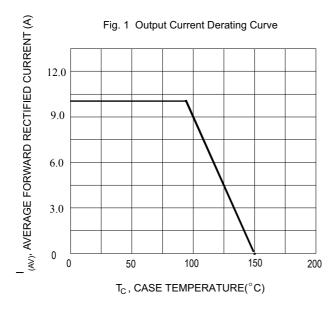
TYPE NUMBER	SYMBOL	GBJ 10005	GBJ 1001	GBJ 1002	GBJ 1004	GBJ 1006	GBJ 1008	GBJ 1010	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage	VRRM VRWM	50	100	200	400	600	800	1000	٧
DC Blocking Voltage	VDC								
RMS Reverse Voltage	VRMS	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@Tc=90℃	IF(AV)	10.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Іғѕм	240							А
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	l²t	239.04						A <sup>2</sup> s	
Forward Voltage per element @IF=5A @IF=10A	V <sub>FM</sub>	1.0 1.1							V
Peak Reverse Current @T」=25 ℃ At Rated DC Blocking Voltage @T」=125 ℃	lR	5.0 200							uA
Dielectric Strength	Vids	2500							V
The proposed installation torque Max torque	Tor	5.0 8.0							Kgf.cm
Typical Junction Capacitance (Note 2)	CJ	65						pF	
Between junction and ambient, Without heatsink	RөJA	14							°C/W
Between junction and case, With heatsink	Rөjc	2.3							
Operating and Storage Temperature Range	T <sub>J</sub> ,Тsтg	-55to+150							$^{\circ}$

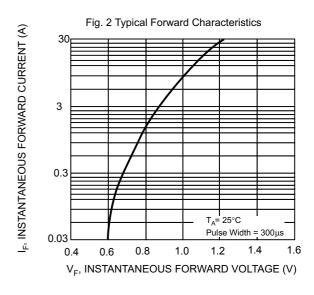
Note: 1. Unit case mounted on aluminum piate heatsink.

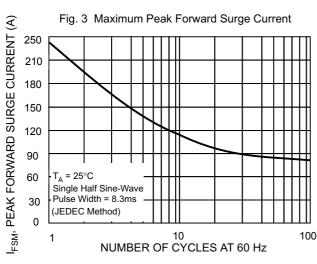
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C..



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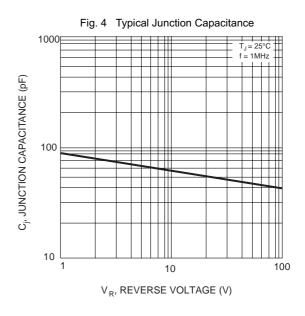
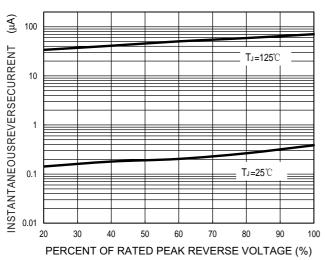


Fig. 5 Typical Reverse Characteristics



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