

# **GBJ15005 THRU GBJ1510**

### SINGLE PHASE 15.0AMP 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

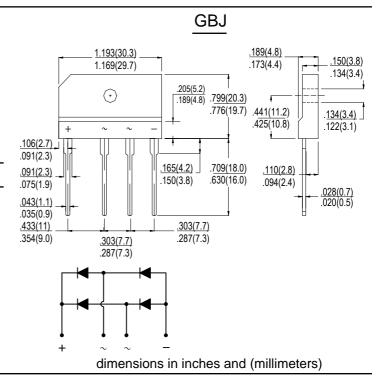
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

· Polarity: As Marked on Case

Mounting Position: Any

Marking: Type Number

Lead Free: For RoHS / Lead Free Version



## **Maximum Ratings and Electrical Characteristics**

Rating at 25<sup>°</sup>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 15005	GBJ 1501	GBJ 1502	GBJ 1504	GBJ 1506	GBJ 1508	GBJ 1510	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VDC	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VDC	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@Tc=90℃	IF(AV)	15.0						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	300							А
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	l <sup>2</sup> t	373.5						A <sup>2</sup> s	
Forward Voltage per element @IF=7.5A @IF=15A	VFM	1.0 1.1						٧	
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)	Сл	75							pF
Between junction and ambient, Without heatsink	Rеја	12							°C/W
Between junction and case, With heatsink	Rejc	1.5							
Operating and Storage Temperature Range	Т <sub>J</sub> ,Тsтg	-55to+150							$^{\circ}$ C

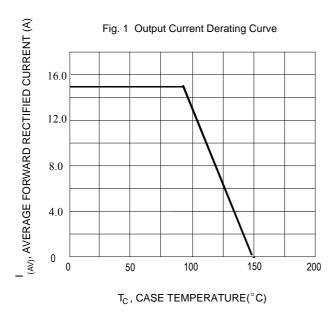
Note: 1. Unit case mounted on aluminum piate heatsink

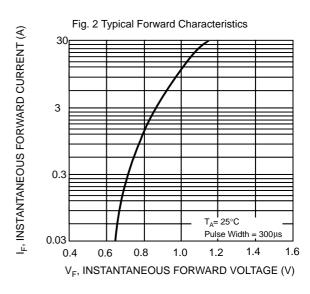
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C..

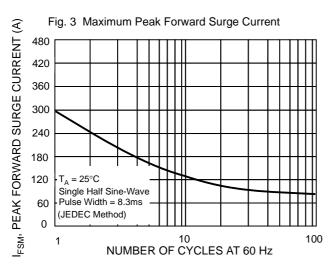
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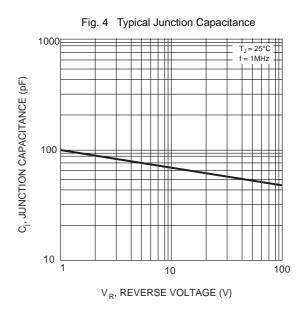
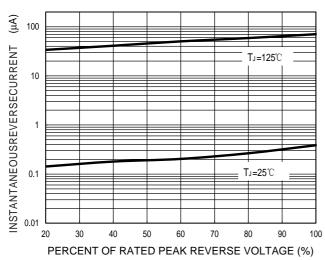


Fig. 5 Typical Reverse Characteristics



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