

## **GBJ25005 THRU GBJ2510**

### SINGLE PHASE 25.0 AMP 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**

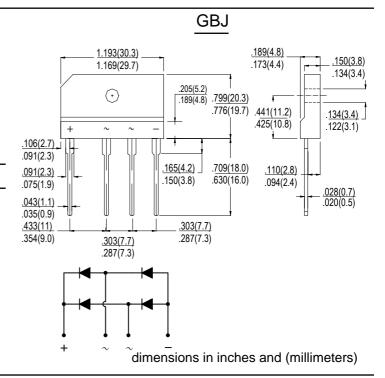
· Case: Molded plastic, GBJ

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

Polarity: As Marked on Case

Mounting Position: AnyMarking: Type Number

Lead Free: For RoHS / Lead Free Version



### **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%.

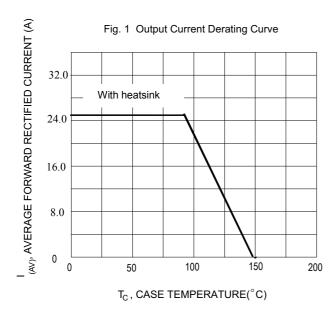
TYPE NUMBER	SYMBOL	GBJ 25005	GBJ 2501	GBJ 2502	GBJ 2504	GBJ 2506	GBJ 2508	GBJ 2510	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM	50	100	200	400	600	800	1000	V
	VDC								
RMS Reverse Voltage	VRMS	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@Tc=90℃	IF(AV)	25.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	lfsm	350							А
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	l²t	508.375						A <sup>2</sup> s	
Forward Voltage per element @IF=12.5A @IF=25A	VFM	1.0 1.1							V
Peak Reverse Current @TJ =25 ℃ At Rated DC Blocking Voltage @TJ =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	110							pF
Between junction and ambient, Without heatsink	RөJA	22							°C/W
Between junction and case, With heatsink	Rejc	1.0							CIVV
Operating and Storage Temperature Range	Т <sub>J</sub> ,Тsтg	-55to+150						$^{\circ}$ C	

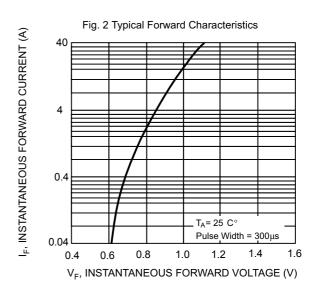
Note: 1. Unit case mounted on aluminum piate heatsink

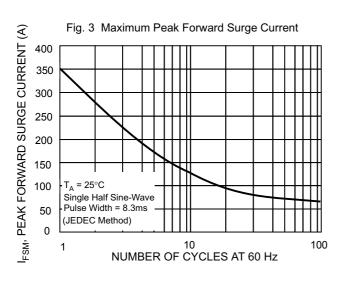
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C..



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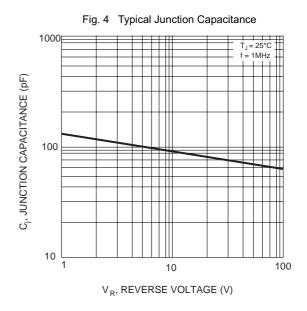
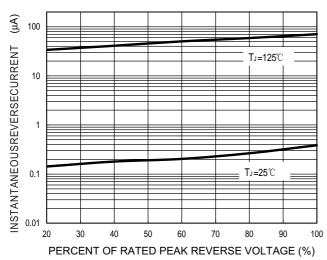


Fig. 5 Typical Reverse Characteristics



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