

## **GBJ8005 THRU GBJ810**

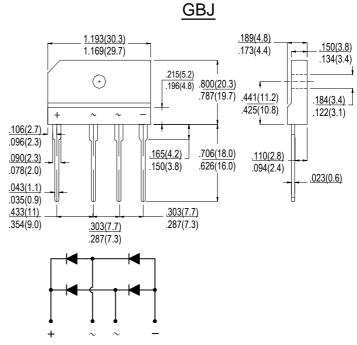
#### SINGLE PHASE 8.0 AMP GLASS PASSIVATED BRIDGE RECTIFIER

### **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: 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%.

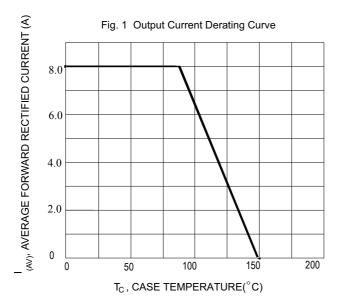
TYPE NUMBER	SYMBOL	GBJ 8005	GBJ 801	GBJ 802	GBJ 804	GBJ 806	GBJ 808	GBJ 810	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage	VRRM VRWM	50	100	200	400	600	800	1000	V
DC Blocking Voltage	VDC								
RMS Reverse Voltage	VRMS	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@T <sub>C</sub> =90 ℃	IF(AV)	8.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	175							А
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	l²t	127.09							A <sup>2</sup> s
Forward Voltage per element @IF=4A @IF=8A	VFM	1.0 1.1							V
Peak Reverse Current @Ta=25 ℃ At Rated DC Blocking Voltage @Ta=125 ℃	lπ	5.0 500							uA
Typical Junction Capacitance per leg	C₁	55							pF
Between junction and ambient, Without heatsink	Reja	24							- °C/W
Between junction and case, With heatsink	Rejc	2.0							
Operating and Storage Temperature Range	TJ,TsTG	-55to+150							$^{\circ}\mathbb{C}$

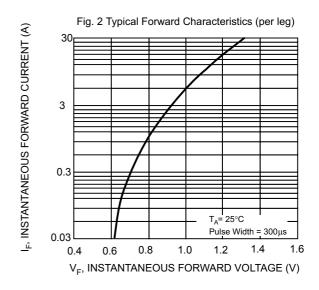
Note:1. Mounted on glass epoxy PC board with 1.3mm<sup>2</sup> solder pad.

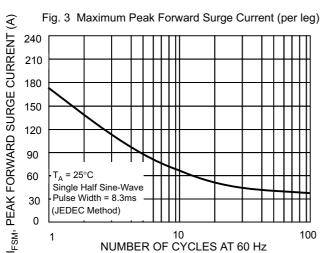
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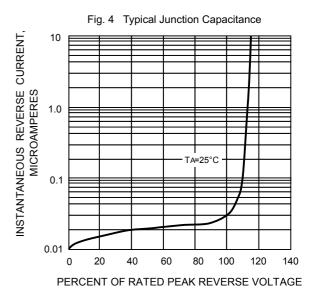


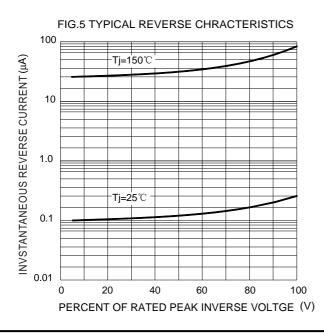
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