

GBJ25005 THRU GBJ2510

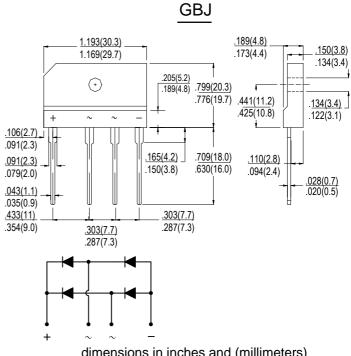
SINGLE PHASE 25.0 AMP GLASS PASSIVATED BRIDGE RECTIFIER

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: 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%.

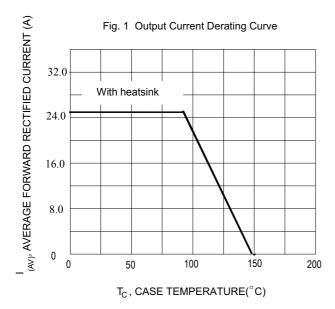
TYPE NUMBER	SYMBOL	GBJ 25005	GBJ 2501	GBJ 2502	GBJ 2504	GBJ 2506	GBJ 2508	GBJ 2510	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage	VRRM VRWM	50	100	200	400	600	800	1000	V
DC Blocking Voltage	VDC								
RMS Reverse Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Average Rectified Output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

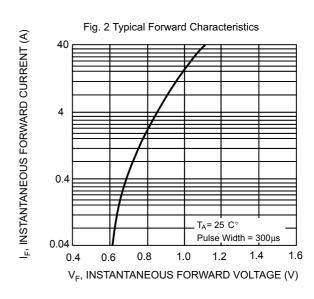
Note: 1. Unit case mounted on aluminum piate heatsink

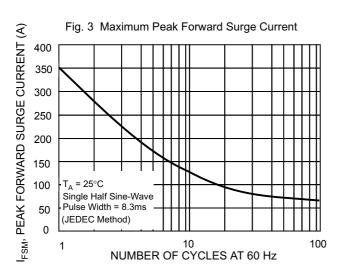
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C..



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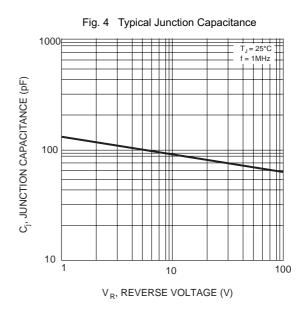
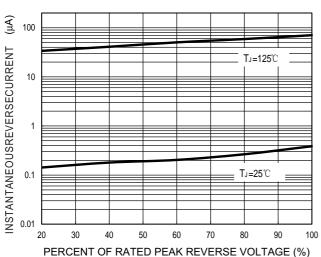


Fig. 5 Typical Reverse Characteristics





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