

GBJ6005 THRU GBJ610

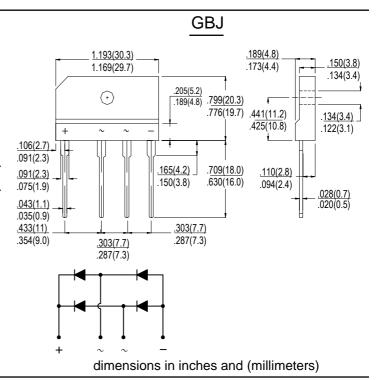
SINGLE PHASE 6.0 AMP GLASS PASSIVATED BRIDGE RECTIFIER

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



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%.

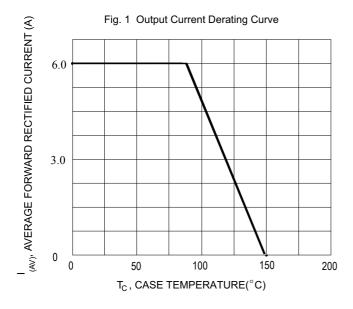
TYPE NUMBER	SYMBOL	GBJ 6005	GBJ 601	GBJ 602	GBJ 604	GBJ 606	GBJ 608	GBJ 610	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V _{DC} V _{RMS}	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@T _C =90 ℃	IF(AV)	6.0						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	160							А
I ² t Rating for Fusing (t < 8.3ms)	l²t	106.24						A ² s	
Forward Voltage per element @IF=3A @IF=6A	VFM	1.0 1.1							V
Peak Reverse Current @TJ =25 °C At Rated DC Blocking Voltage @TJ =125 °C	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)	СJ	35							pF
Between junction and ambient, Without heatsink	Rеја	24							°C/W
Between junction and case, With heatsink	Rejl	2.5							
Operating and Storage Temperature Range	Тл,Тѕтс	-55to+150							$^{\circ}$

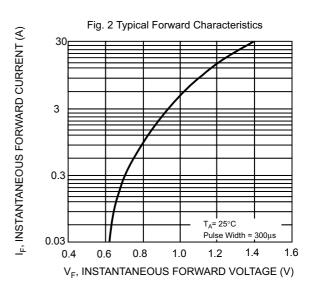
Note: 1. Unit case mounted on aluminum piate heatsink

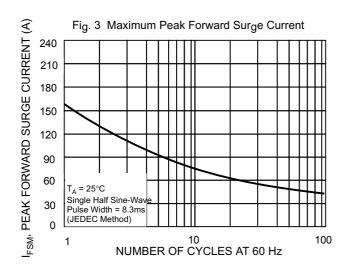
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C..



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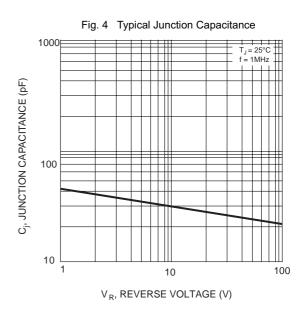
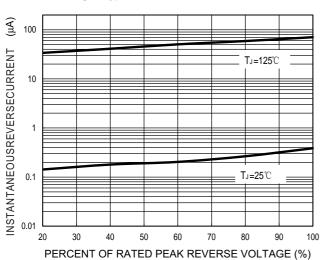


Fig. 5 Typical Reverse Characteristics





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version:05 3 of 3 www.dyelec.com