

GBJ15005G THRU GBJ1510G

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

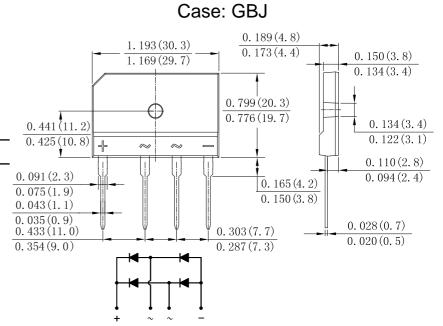
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: As Marked on Case

Mounting Position: Any

Marking: Type Number

· Lead Free: For RoHS / Lead Free Version



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 15005G	GBJ 1501G	GBJ 1502G	GBJ 1504G	GBJ 1506G	GBJ 1508G	GBJ 1510G	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 _C =90 ℃	IF(AV)	15.0						А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	320							А
I ² t Rating for Fusing (t < 8.3ms)	l²t	424.96						A ² s	
Forward Voltage per element	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)	\mathcal{S}	90							pF
Between junction and ambient, Without heatsink	Reja	12							- ℃/W
Between junction and case, With heatsink	Rejc	1.5							
Operating and Storage Temperature Range	Т _J ,ТsтG	-55to+150							$^{\circ}$ C

Note: 1. Unit case mounted on aluminum piate heatsink

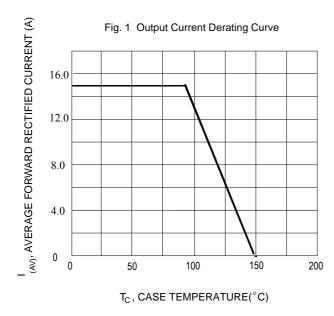
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C..

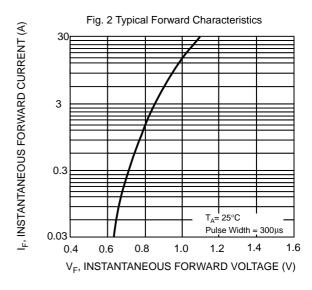
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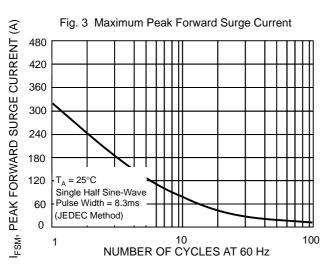


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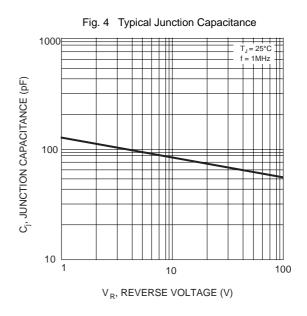
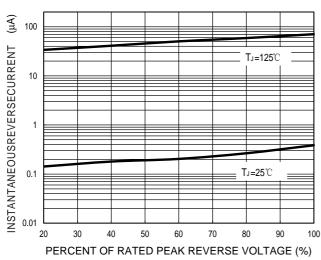


Fig. 5 Typical Reverse Characteristics



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