

# GBU8005G THRU GBU810G

Single Phase 8.0AMP Glass Passivated Bridge Rectifier

Case: GBU

#### **Features**

- · Glass passivated die construction
- · Low forward voltage drop
- · High current capability
- · High surge current capability
- Plastic material-UL flammability 94V-0

### **Mechanical Data**

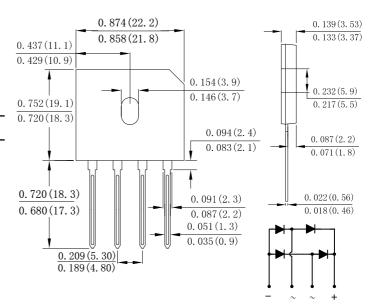
· Case: GBU, molded plastic

 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



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	GBU 8005G	GBU 801G	GBU 802G	GBU 804G	GBU 806G	GBU 808G	GBU 810G	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VDC	50	100	200	400	600	800	1000	٧
RMS Reverse Voltage	VRMS	35	70	140	280	420	560	700	V
Average Rectified Output Current (with heatsink) $@T_C = 90^{\circ}C$ (without heatsink)	lf(AV)				8.0 3.0				Α
Non-Repetitive Peak Forward Surge Current @TJ=25°C 8.3ms Single half sine-wave superimposed @TJ=125°C on rated load (JEDEC Method)		240 192						А	
Non-Repetitive Peak Forward Surge @TJ=25°C Current 1 ms Single half sine-wave @TJ=125°C superimpose on rated load (JEDEC Method)	IFSM	480 384						А	
Forward Voltage per element @IF=4.0A	VFM	1.0						V	
Peak Reverse Current @TJ=25℃ At Rated DC Blocking Voltage @TJ=125℃	lR	5.0 200						uA	
I <sup>2</sup> t Rating for fusing (t <8.3ms)	l <sup>2</sup> t	239.04						A <sup>2</sup> s	
Dielectric Strength	Vids	2500						V	
The proposed installation torque Max torque	Tor	5.0 8.0						Kgf.cm	
Typical Junction Capacitance (Note 1)	СJ	75							pF
Typical Thermal Resistance	RөJA	28							°C/W
	Rejc	8.7							
	Rejl	5.3							
Operating and Storage Temperature Range	Т <sub>Ј</sub> ,Тѕтс	-55to+150							$^{\circ}\!\mathbb{C}$

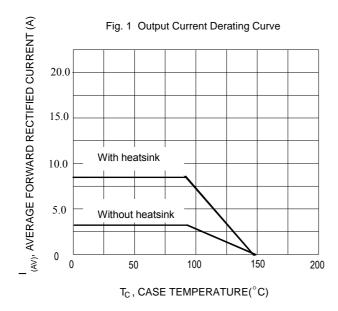
Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

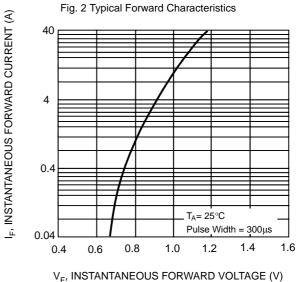
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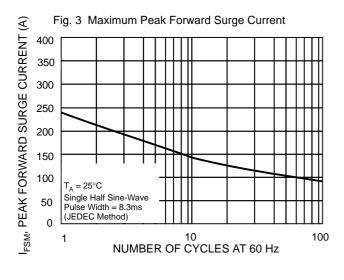


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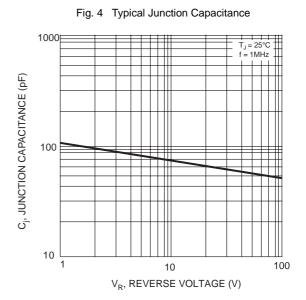
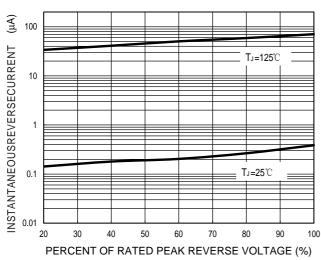


Fig. 5 Typical Reverse Characteristics



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