



# GBU801 - GBU807

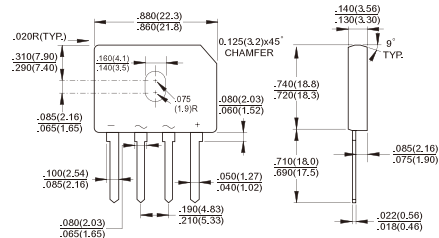
Single Phase 8.0 AMPS.  
Glass Passivated Bridge Rectifiers  
**GBU**

## Features

- ◇ UL Recognized File # E-326243
- ◇ Glass passivated junction
- ◇ Ideal for printed circuit board
- ◇ High case dielectric strength of 1500 Vrms
- ◇ Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- ◇ Typical IR less than 0.1uA
- ◇ High surge current capability
- ◇ High temperature soldering guaranteed: 260°C / 10 seconds at 5 lbs., (2.3kg) tension
- ◇ Green compound with suffix "G" on packing code & prefix "G" on datecode.

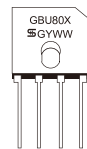
## Mechanical Data

- ◇ Case : Molded plastic body
- ◇ Terminal : Pure tin plated , Lead free. Leads solderable per MIL-STD-202 Method 208
- ◇ Weight:4 grams
- ◇ Mounting Torque: 5 in. lb. max.



Dimensions in inches and (millimeters)

### Marking Diagram



- GBU80X = Specific Device Code
- G = Green Compound
- Y = Year
- WW = Work Week

## Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave, 60 Hz, resistive or inductive load.  
For capacitive load, derate current by 20%

Type Number	Symbol	GBU 801	GBU 802	GBU 803	GBU 804	GBU 805	GBU 806	GBU 807	Units
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T <sub>c</sub> = 100°C	IF(AV)	8.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method )	IFSM	200							A
Rating for fusing ( t<8.3mS )	I <sup>2</sup> T	166.0							A <sup>2</sup> S
Maximum Instantaneous Forward Voltage @ 4.0A @ 8.0A	VF	1.0 1.1							V
Maximum DC Reverse Current @ T <sub>A</sub> =25°C at Rated DC Blocking Voltage(Note 1) @ T <sub>A</sub> =125°C	IR	5.0 500							uA
Typical Junction Capacitance Per Leg (Note 2)	Cj	211 94							pF
Typical Thermal Resistance (Note 3)	RθJA RθJC	21 2.0							°C/W
Operating Temperature Range	Tj	-55 to +150							°C
Storage Temperature Range	Tstg	-55 to + 150							°C

- Notes: 1. Pulse Test with PW=300 usec,1% Duty Cycle  
2. Measured at 1MHz and applied Reverse bias of 4.0V DC.  
3. Unit case mounted on 4" x 6" x 0.25" Al plate heat sink.

RATINGS AND CHARACTERISTIC CURVES (GBU801 THRU GBU807)

