

# GBU801 THRU GBU807

Single Phase 8.0 AMPS. Glass Passivated Bridge Rectifiers



Voltage Range 50 to 1000 Volts Current

## **Features**

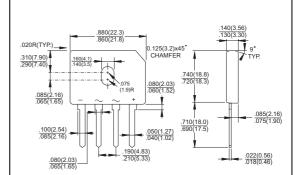
- UL Recognized File # E-96005
- Ideal for printed circuit board
- Reliable low cost construction
- Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- Surge overload rating to 200 amperes peak
- High temperature soldering guaranteed: 260°C / 10 seconds / .375", (9.5mm) lead lengths.

#### Mechanical Data

- Case: Molded plastic body.
- Terminals: Plated leads solderable per  $\diamondsuit$ MIL-STD-750, Method 2026.
- Weight: 0. 3 ounce, 8.0 grams
- Mounting torque: 5 in. lb. Max.

# 8.0 Amperes

GBU



Dimensions in inches and (millimeters)

# **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	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current $@T_C = 100^{\circ}C$	I <sub>(AV)</sub>	8.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	200							Α
Maximum Instantaneous Forward Voltage @ 8.0A	V <sub>F</sub>	1.0							V
Maximum DC Reverse Current @ $T_A$ =25°C at Rated DC Blocking Voltage @ $T_A$ =125°C	I <sub>R</sub>	5.0 500							uA uA
Rating for fusing (t<8.3ms)	l <sup>2</sup> t	166							A <sup>2</sup> sec
Typical Thermal Resistance Per Leg (Note 1) (Note 2)	$R \theta_{JA} \ R \theta_{JC}$	21.0 2.0							℃\M
Typical Junction Capacitance (Note 3)	Cj		2	11			94		pF
Operating Temperature Range	TJ	-55 to +150							${\mathfrak C}$
Storage Temperature Range	T <sub>STG</sub>	-55 to + 150							${\mathfrak C}$

- Notes 1: Units Mounted In Free Air No Heat Sink On PCB 0.5x0.5 " (12x12mm) Copper Pads, 0.375"(9.5mm) Lead Length.
  - 2: Units Case Mounted On 4" x 6" x 0.25" AL. Plate Heat Sink.
  - 3. Measured at 1.0 MHZ and applied Reverse Voltage of 4.0V.



### RATINGS AND CHARACTERISTIC CURVES (GBU801 THRU GBU807)

