









Features

- ♦ UL Recoganized 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

140(3.56) 880(22.3) 860(21.8) .020R(TYP.) 9. 0.125(3.2)x45 CHAMFER .310(7.90) .290(7.40) TYP 740(18.8) 720(18.3) .080(2.03) (1.9)R .060(1.52) .085(2.16) .065(1.65) .085(2.16) .075(1.90) 710(18.0) 690(17.5) 100(2.54) 085(2.16) .050(1.27) .040(1.02) .190(4.83) 022(0.56) .210(5.33) .080(2.03) 065(1.65

Single Phase 8.0AMPS. Glass Passivated Bridge Rectifiers

GBU

Dimensions in inches and (millimeters)

Marking Diagram

GBU80X SGYWW G Y WW

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

Mechanical Data

Case: Molded plastic body

 Terminals: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208

♦ Weight: 4 grams

♦ Mounting Torque: 5 in. lb. max

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%

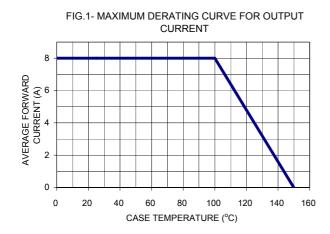
on capacitive load, defate current by 2070									
Type Number	Symbol	GBU 801	GBU 802	6BU 803	GBU 804	GBU 805	GBU 806	GBU 807	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @TC=100°C	I _{F(AV)}			•	8				Α
Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load (JEDEC method)	I _{FSM}	200							Α
Rating of fusing (t<8.3ms)	I ² T	166						A ² S	
Maximum Instantaneous Forward Voltage (Note 1) @ 4 A @ 8 A	V _F	1.0 1.1						V	
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	I _R	5 500						uA uA	
Typical Junction Capacitance per leg (Note 2)	Cj	211 94				pF			
Typical Thermal Resistance (Note 3)	$R_{ heta JA} \ R_{ heta JC}$	21 2						°C/W	
Operating Temperature Range	TJ	- 55 to + 150						οС	
Storage Temperature Range	T _{STG}	- 55 to + 150						οС	

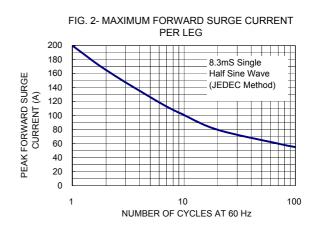
Note 1 : Pulse Test with PW=300 usec, 1% Duty Cycle

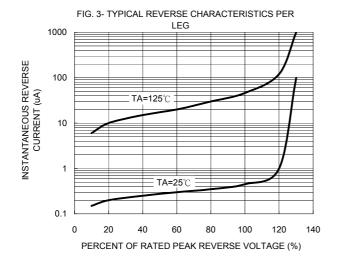
Note 2 : Measured at 1MHz and applied Reverse bias of 4.0V DC Note 3 : Unit case mounted on 4" x 6" x 0.25" Al plate heat sink



RATINGS AND CHARACTERISTIC CURVES (GBU801 THRU GBU807)







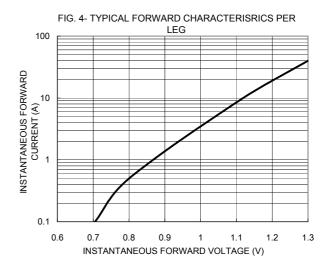
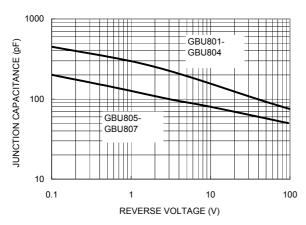


FIG. 5- TYPICAL JUNCTION CAPACITANCE



Version:E10