



GBU801 - GBU807

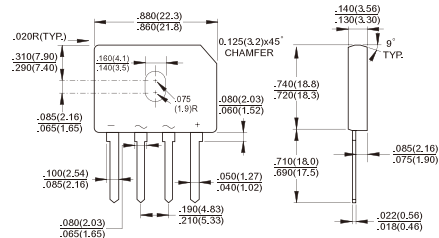
Single Phase 8.0 AMPS.
Glass Passivated Bridge Rectifiers
GBU

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.

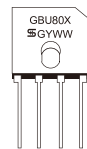
Mechanical Data

- ◇ 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	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°C	I _{F(AV)}	8.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	200							A
Rating for fusing (t<8.3mS)	I ² T	166.0							A ² S
Maximum Instantaneous Forward Voltage @ 4.0A @ 8.0A	V _F	1.0 1.1							V
Maximum DC Reverse Current @ T _A =25°C at Rated DC Blocking Voltage(Note 1) @ T _A =125°C	I _R	5.0 500							uA
Typical Junction Capacitance Per Leg (Note 2)	C _J	211 94							pF
Typical Thermal Resistance (Note 3)	R _{θJA} R _{θJC}	21 2.0							°C/W
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-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)

