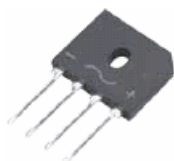



RoHS
COMPLIANCE


GBU1001 - GBU1007

Single Phase 10.0 AMPS. Glass Passivated Bridge Rectifiers

GBU

Features

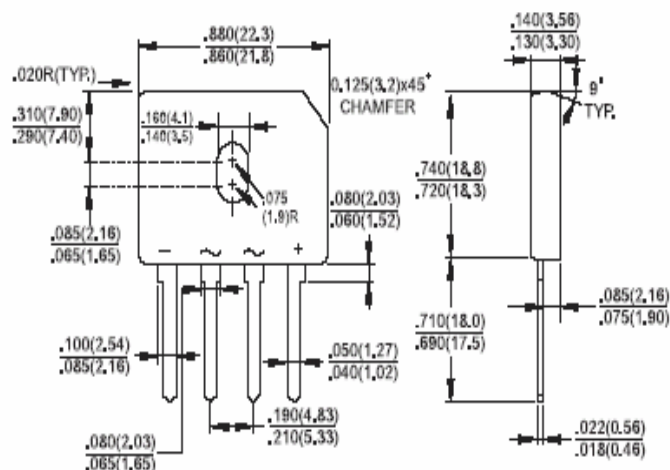
- ◇ UL Recognized File # E-326243
- ◇ Glass passivated junction
- ◇ Ideal for printed circuit board
- ◇ High case dielectric strength of 1500Vrms
- ◇ Plastic material has Underwriters laboratory flammability Classification 94V-0
- ◇ Typical IR less than 0.1uA
- ◇ High surge current capability
- ◇ High temperature soldering guaranteed:
260°C / 10 seconds at 5 lbs., (2.3 kg) 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 : 0.141 ounce ,4 grams
- ◇ Mounting Torque : 5 in lbs max.

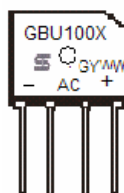
Maximum Ratings and Electrical Characteristics

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%



Dimension in inches and (millimeter)

Marking Diagram



GBU100X= Specific Device Code
 G = Green Compound
 Y = Year Code
 WW = Week Code

Type Number	Symbol	GBU 1001	GBU 1002	GBU 1003	GBU 1004	GBU 1005	GBU 1006	GBU 1007	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	1000	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	2100	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	1000	1000	V
Maximum Average Forward Rectified Current @ T _C = 100°C	I _(AV)	10.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	220							A
Rating of fusing (t < 8.3mS)	I ² t	200							A ² S
Maximum Instantaneous Forward Voltage @ 5.0A @ 10.0A	V _F	1.0 1.1							V
Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=125°C	I _R	5.0 500							uA
Typical Junction Capacitance per leg (Note 1)	Cj	211				94			pF
Typical Thermal Resistance (Note 2)	R _{θJA} R _{θJC}	21 2.0							oC/W
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

Note 1 : Measured at 1MHz and applied Reverse bias of 4.0V DC.

2. Unit case mounted on 4" x 6" x 0.25" Al plate heat sink.

Rating and Sharacteristic Curves (GBU1001 Thru GBU1007)

FIG 1 Maximum Derating Curve for Output

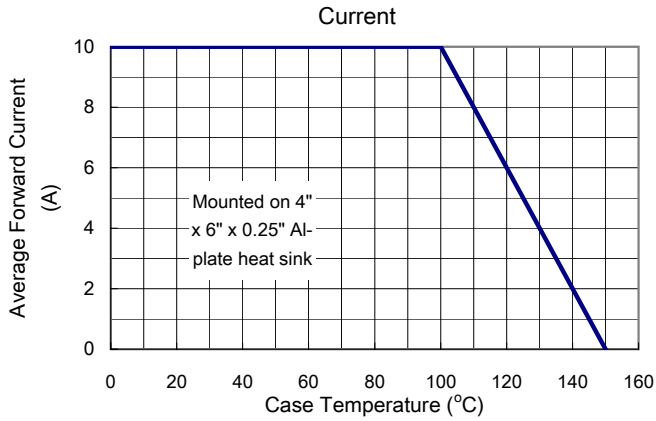


FIG 2 Maximum Forward Surge Current per Leg

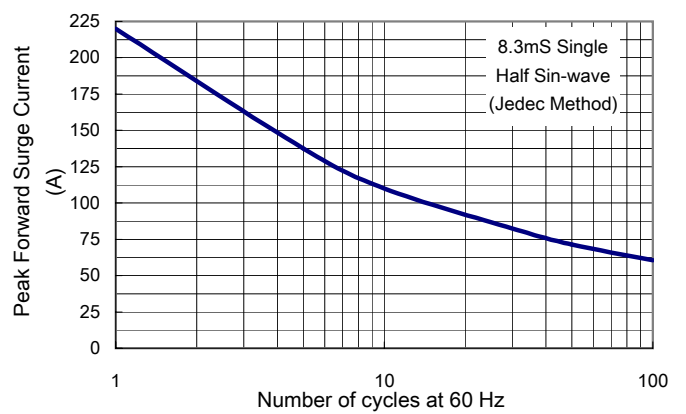


FIG 3 Typical Reverse Characteristics per Leg

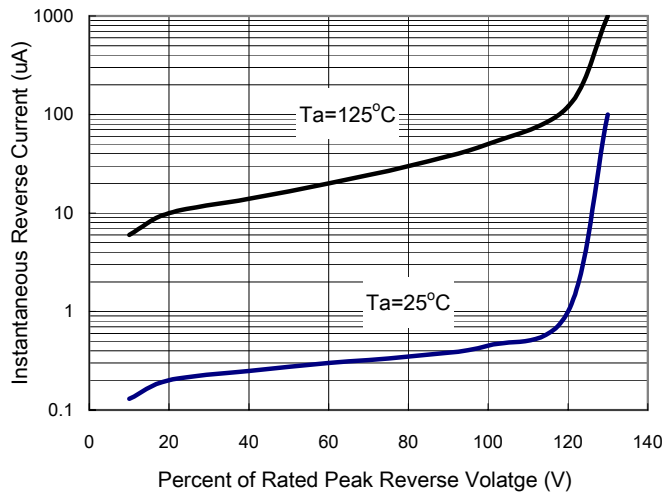


FIG 4 Typical Forward Characteristics per Leg.

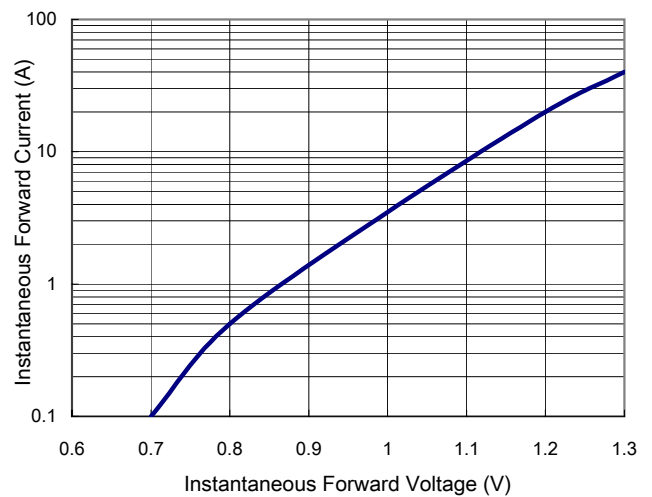


FIG 5 Typical Junction Capacitance

