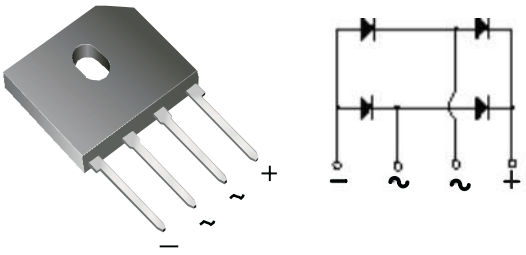
8.0 Amp. Glass Passivated Single Phase In Line GBU Bridge Rectifier

GBU



Voltage	Current
400 V to 1000 V	8.0 A

FEATURES

- UL recognition file number E320541
- Ideal for printed circuit board
- High case dielectric strength of 1500 Vrms
- High surge current capability
- Solder dip 260ºC, 10s
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

RoHS COMPLIANT

MECHANICAL DATA

- **Case:** GBU. Epoxy meets UL 94V-0 flammability rating.
- **Polarity:** As marked on body.
- **Mounting Torque:** 10cm-kg (8.8 in.- lbs.) Max.
- **Recommended Torque:** 5.5cm-kg (5 in.- lbs.)
- **Terminals:** Matte tin plated leads, solderable per MIL-STD-750 Method 2026, J-STD-002 and JESD22-B102. Consumer grade, meets JESD 201 class 1A whisker test

TYPICAL APPLICATIONS

Used in ac-to-dc bridge full wave rectification for monitor, TV, printer, switching mode power supply, adapter, audio equipment, and home appliances applications.

Maximum Ratings and Electrical Characteristics at 25 ºC

		GBU 804G	GBU 805G	GBU 806G	GBU 807G
	Marking Code	GBU804G	GBU805G	GBU806G	GBU807G
V_{RRM}	Maximum Recurrent Peak Reverse Voltage (V)	400	600	800	1000
V_{RMS}	Maximum RMS Voltage (V)	280	420	560	700
V_{DC}	Maximum DC Blocking Voltage (V)	400	600	800	1000
$I_{F(AV)}$	Maximum Average Forward Rectified Current @ T_C = 60 °C @ TA = 25 °C	8.0 A 3.0 A			
I_{FSM}	Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	200 A			
Cj	Typical Junction capacitance per leg (Note 3)	211pF	94pF		
T_j	Operating Temperature Range	-55 to +150 °C			
T_{stg}	Storage Temperature Range	-55 to +150 °C			

Electrical Characteristics at Tamb = 25 °C

V_F	Maximum Instantaneous Forward Voltage drop per leg @ = 4.0 A	1.0 V
I_R	Maximum DC Reverse Current @ T_A = 25 °C at Rated DC Blocking Voltage (Note 1) @ T_A =125°C	5.0 µA 500 µA
$R_{th\ (j-a)}$ $R_{th\ (j-c)}$	Typical Thermal Resistance (Note 2)	21 °C/W 4.0 °C/W

Notes: 1. Pulse Test with PW=300 µsec, 1% Duty Cycle.
2. Mounted on Al. Plate of 4" x 6" x 0.25" Al-Plate Heat sink.
3. Measured at 1.0MHZ and Applied Reverse Voltage of 4.0 Volts. D.C.

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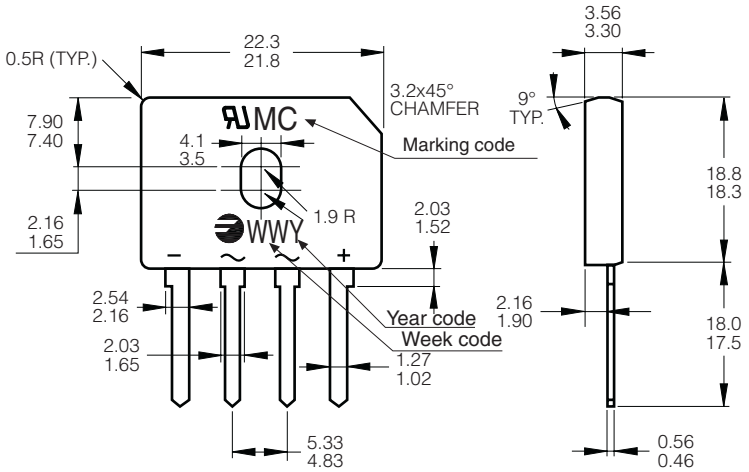
Ordering information

PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
GBU806G TU	TU	TUBE	20	3.85

Package Outline Dimensions: (mm) GBU



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Ratings and Characteristics (Ta 25 ºC unless otherwise noted)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

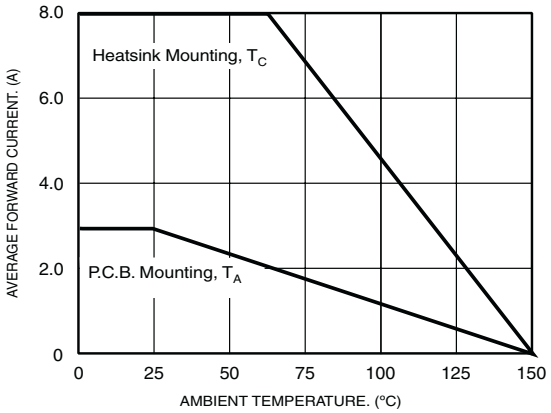


FIG.2- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

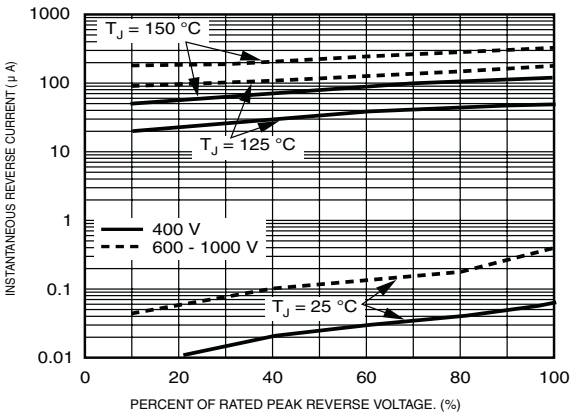


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

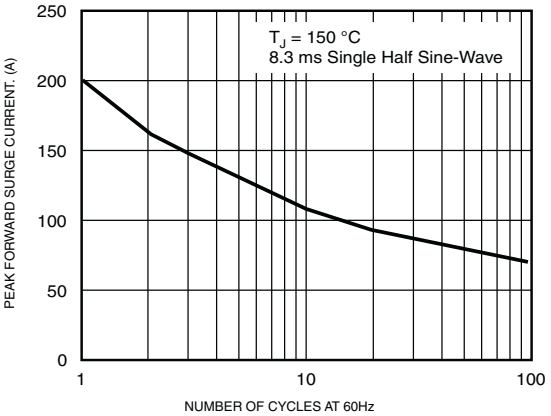


FIG.4- TYPICAL JUNCTION CAPACITANCE

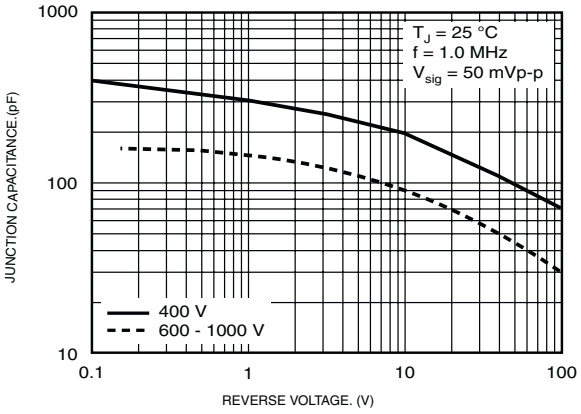
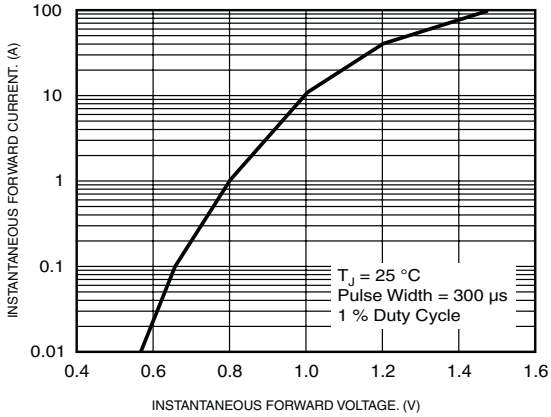


FIG.5- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT



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