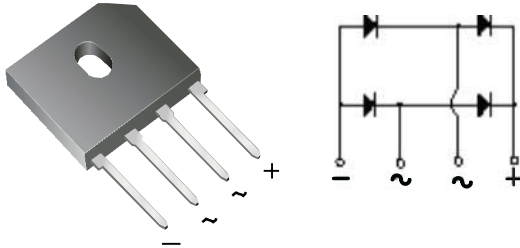


10.0 Amp. Glass Passivated Single Phase In Line GBU Bridge Rectifier

GBU 	Voltage 400 V to 1000 V	Current 10.0 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 260°C, 10s • Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC 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 °C

		GBU 1004G	GBU 1005G	GBU 1006G	GBU 1007G
Marking Code		GBU1004G	GBU1005G	GBU1006G	GBU1007G
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 = 100 °C	10.0 A			
I _{FSM}	Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	220 A			
C _j	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 @ = 5.0 A @ = 10.0 A	1.0 V 1.1 V
I_R	Maximum DC Reverse Current @ $T_A = 25\text{ }^{\circ}\text{C}$ at Rated DC Blocking Voltage (Note 1) @ $T_A = 125\text{ }^{\circ}\text{C}$	5.0 μA 500 μA
$R_{th(j-a)}$ $R_{th(j-c)}$	Typical Thermal Resistance (Note 2)	21 °C/W 2.0 °C/W

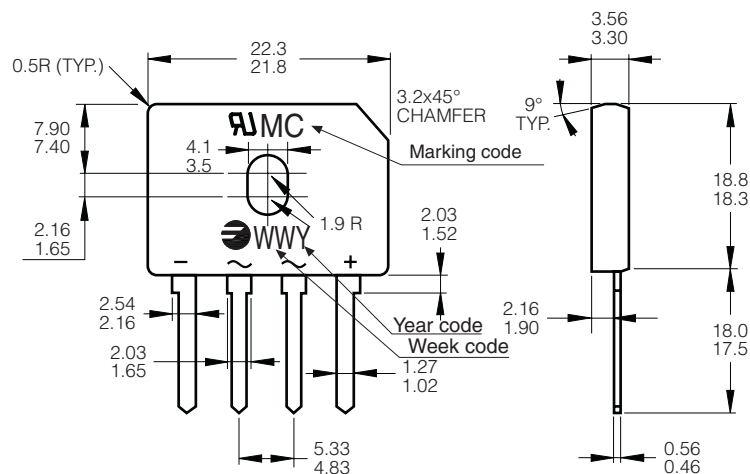
Notes: 1. Pulse Test with PW=300 μsec , 1% Duty Cycle.
 2. Mounted on Al. Plate of 4" x 6" x 0.25" Al-Plate Heat sink.
 3. Measured at 1.0MHZ and Applied Reverse Voltage of 4.0 Volts. D.C.

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

Ordering information

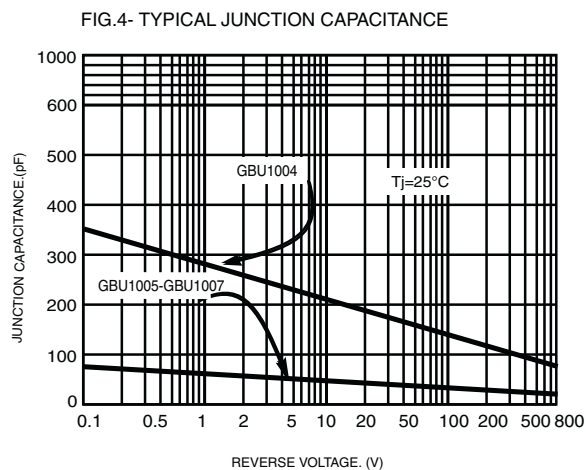
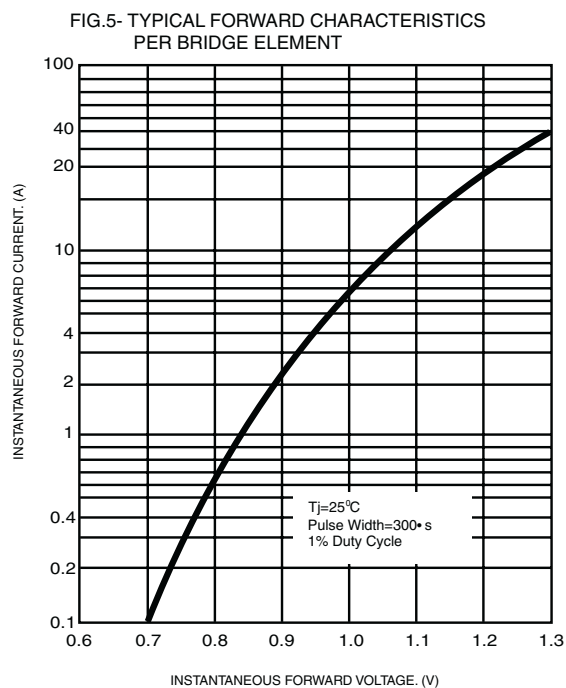
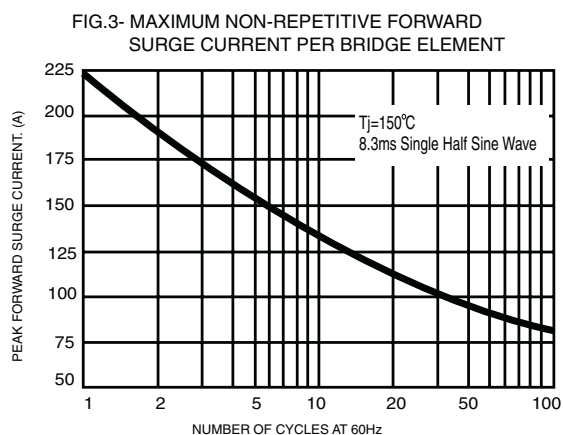
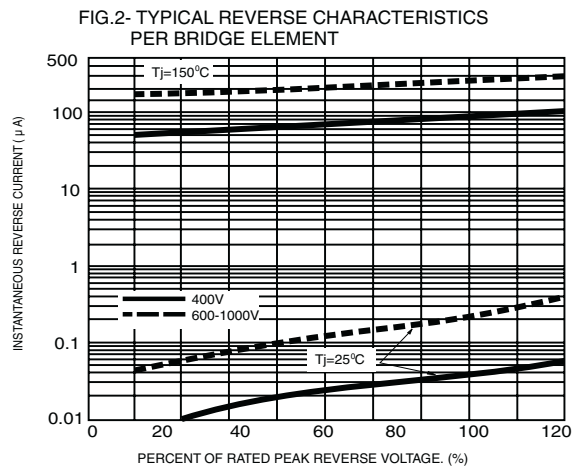
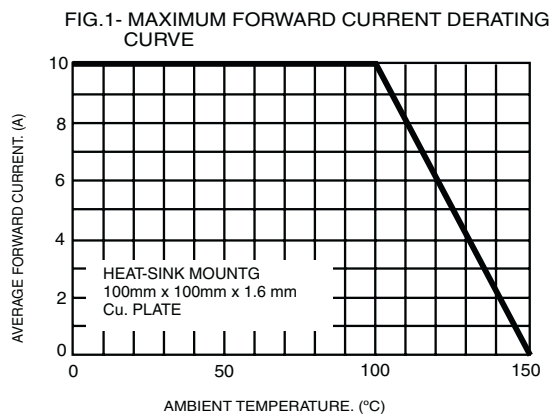
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
GBU1006G TU	TU	TUBE	20	3.96

Package Outline Dimensions: (mm) GBU



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

Ratings and Characteristics (Ta 25 °C unless otherwise noted)



10.0 Amp. Glass Passivated Single Phase In Line GBU Bridge Rectifier**Revision History**

Date	Revision	Description of Changes
03-Oct-2011	0	Original Data Sheet
30-Jun-2016	1	Update RoHS directive and Change Ordering information

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