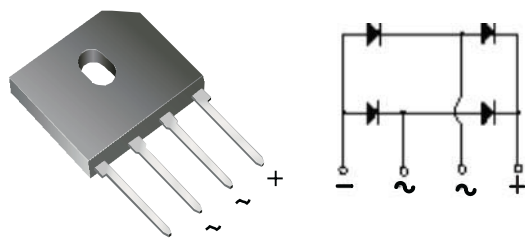


8.0 Amp. Glass Passivated Single Phase In Line GBU Bridge Rectifier

<p>GBU</p> 	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Voltage</td> <td style="text-align: center;">Current</td> </tr> <tr> <td style="text-align: center;">400 V to 1000 V</td> <td style="text-align: center;">8.0 A</td> </tr> </table> <p>FEATURES</p> <ul style="list-style-type: none"> 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 <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> 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 <p>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.</p>	Voltage	Current	400 V to 1000 V	8.0 A
Voltage	Current				
400 V to 1000 V	8.0 A				

Maximum Ratings and Electrical Characteristics at 25 °C

		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 @ $T_C = 60\text{ °C}$ @ $T_A = 25\text{ °C}$	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			
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 drop per leg @ = 4.0 A	1.0 V
I_R	Maximum DC Reverse Current @ $T_A = 25\text{ °C}$ at Rated DC Blocking Voltage (Note 1) @ $T_A = 125\text{ °C}$	5.0 μ A 500 μ A
$R_{th(j-a)}$ $R_{th(j-c)}$	Typical Thermal Resistance (Note 2)	21 °C/W 4.0 °C/W

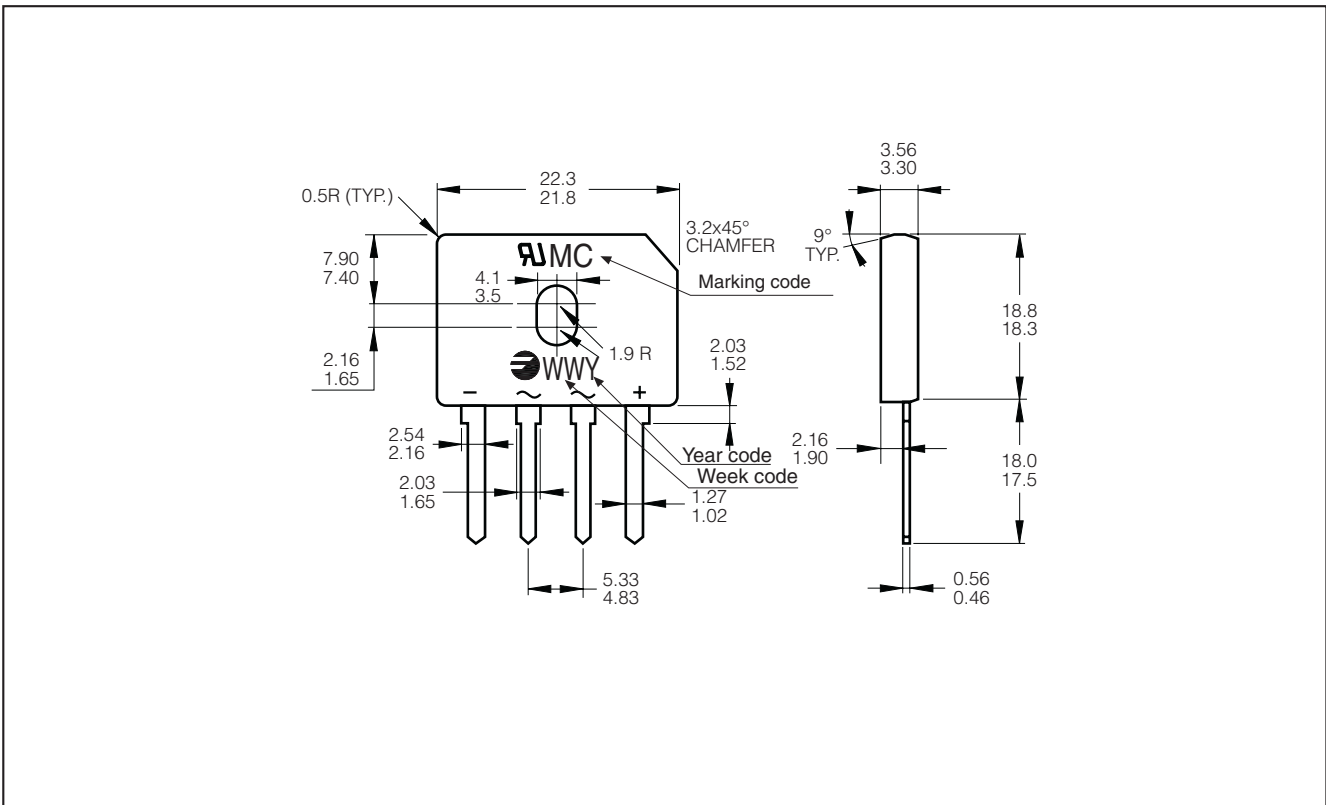
Notes: 1. Pulse Test with PW=300 μ sec, 1% Duty Cycle.
 2. Mounted on Al. Plate of 4" x 6" x 0.25" Al-Plate Heat sink.
 3. Measured at 1.0MHZ and Applied Reverse Voltage of 4.0 Volts. D.C.

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

Ordering information

PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
GBU806G TU	TU	TUBE	20	3.96

Package Outline Dimensions: (mm) GBU



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

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

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

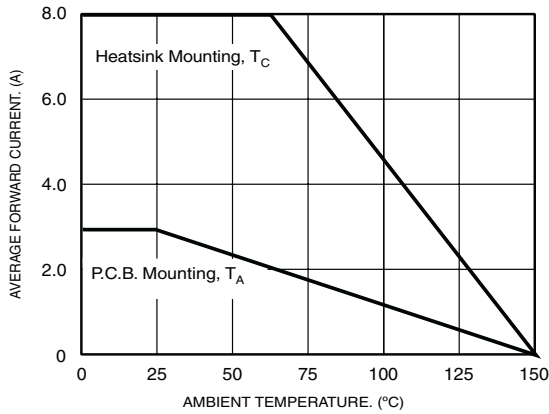


FIG.2- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

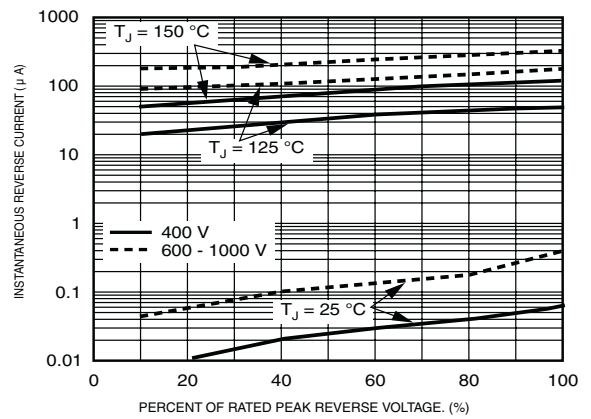


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

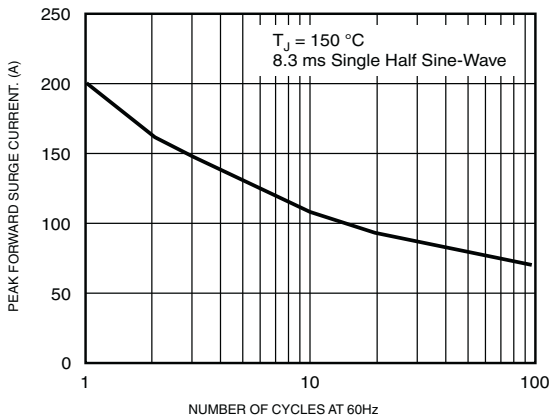


FIG.4- TYPICAL JUNCTION CAPACITANCE

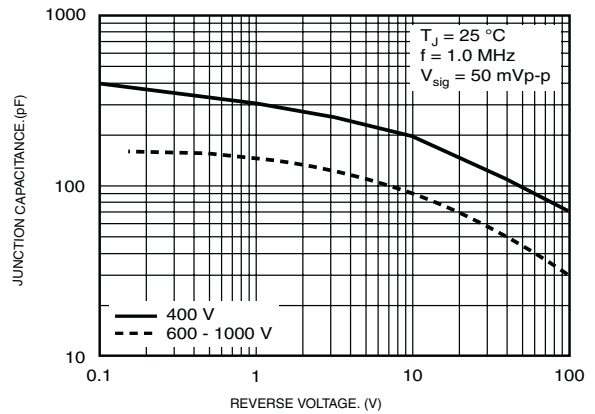
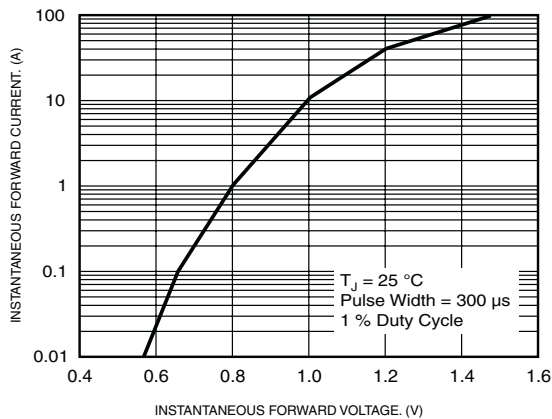


FIG.5- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT



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

Revision History

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

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