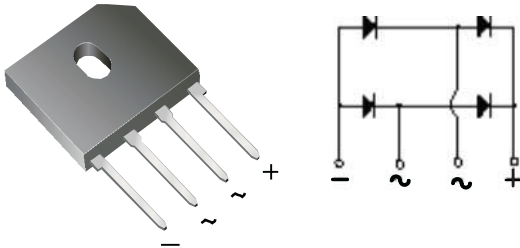


### 4.0 Amp. Glass Passivated Single Phase In Line GBU Bridge Rectifier

<b>GBU</b>  	<b>Voltage</b> 400 V to 1000 V	<b>Current</b> 4.0 A
	<b>FEATURES</b> <ul style="list-style-type: none"> <li>UL recognition file number E320541</li> <li>Ideal for printed circuit board</li> <li>High case dielectric strength of 1500 Vrms</li> <li>High surge current capability</li> <li>Solder dip 260°C, 10s</li> <li>Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC</li> </ul>	
	<b>MECHANICAL DATA</b> <ul style="list-style-type: none"> <li><b>Case:</b> GBU. Epoxy meets UL 94V-0 flammability rating.</li> <li><b>Polarity:</b> As marked on body</li> <li><b>Mounting Torque:</b> 10cm·kg (8.8 in.- lbs.) Max.</li> <li><b>Recommended Torque:</b> 5.5cm·kg (5 in.- lbs.)</li> <li><b>Terminals:</b> 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</li> </ul>	
	<b>TYPICAL APPLICATIONS</b> 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

Marking Code		GBU 404G	GBU 405G	GBU 406G	GBU 407G
Marking Code		GBU404G	GBU405G	GBU406G	GBU407G
V <sub>RRM</sub>	Maximum Recurrent Peak Reverse Voltage (V)	400	600	800	1000
V <sub>RMS</sub>	Maximum RMS Voltage (V)	280	420	560	700
V <sub>DC</sub>	Maximum DC Blocking Voltage (V)	400	600	800	1000
I <sub>F(AV)</sub>	Maximum Average Forward Rectified Current @ T <sub>C</sub> = 100 °C	4.0 A			
I <sub>FSM</sub>	Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	150 A			
C <sub>j</sub>	Typical Junction capacitance per leg (Note 3)	100pF	45pF		
T <sub>j</sub>	Operating Temperature Range	-55 to +150 °C			
T <sub>stg</sub>	Storage Temperature Range	-55 to +150 °C			

### Electrical Characteristics at Tamb = 25 °C

V <sub>F</sub>	Maximum Instantaneous Forward Voltage @ = 2.0 A @ = 4.0 A	1.0 V 1.1 V
I <sub>R</sub>	Maximum DC Reverse Current @ T <sub>A</sub> = 25 °C at Rated DC Blocking Voltage (Note 1) @ T <sub>A</sub> = 125°C	5.0 μA 500 μA
R <sub>th(j-a)</sub> R <sub>th(j-c)</sub>	Typical Thermal Resistance (Note 2)	20 °C/W 4.0 °C/W

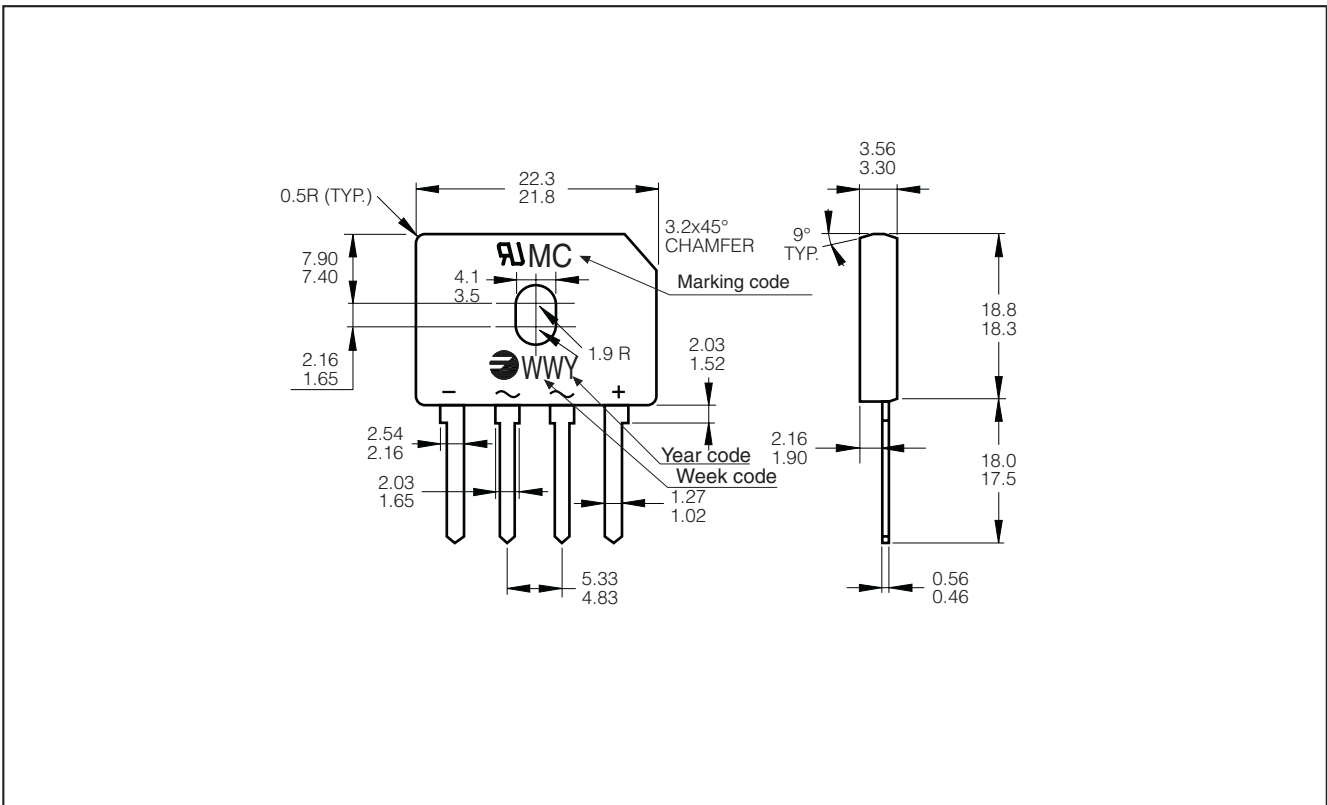
Notes: 1. Pulse Test with PW=300 μsec, 1% Duty Cycle.  
 2. Mounted on Al. Plate of 4" x 6" x 0.25" Al-Plate Heat sink.  
 3. Measured at 1.0MHZ and Applied Reverse Voltage of 4.0 Volts. D.C.

**4.0 Amp. Glass Passivated Single Phase In Line GBU Bridge Rectifier**

**Ordering information**

PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
GBU406G TU	TU	TUBE	20	3.56

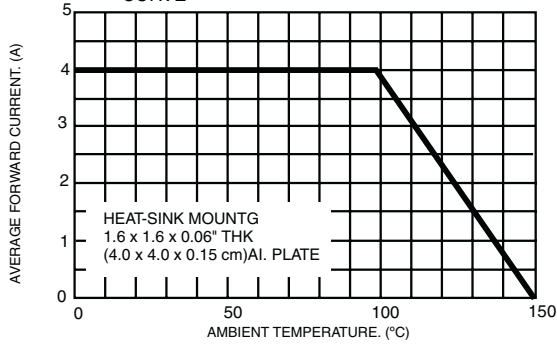
**Package Outline Dimensions: (mm) GBU**



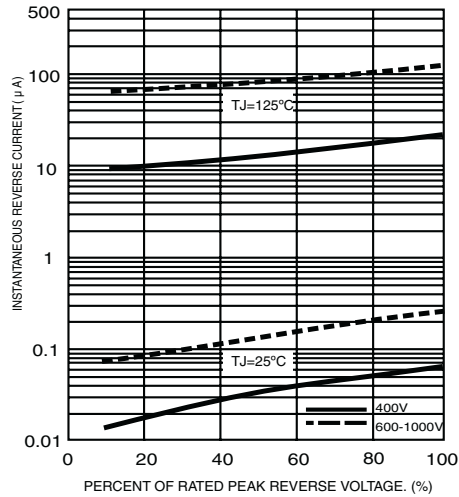
**4.0 Amp. Glass Passivated Single Phase In Line GBU Bridge Rectifier**

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

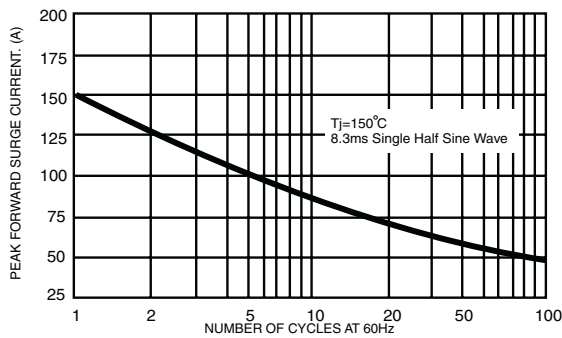
**FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE**



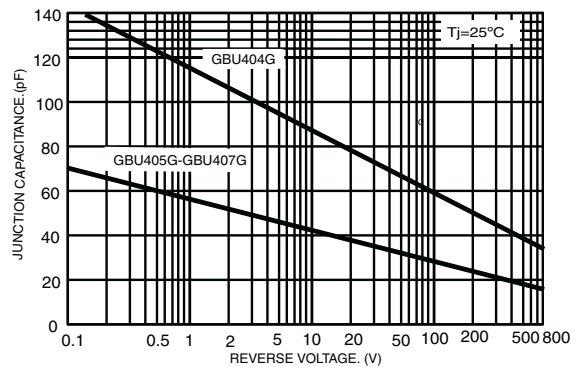
**FIG.2- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT**



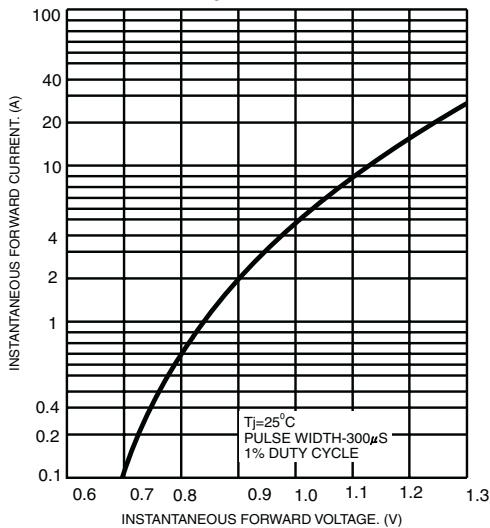
**FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT**



**FIG.4- TYPICAL JUNCTION CAPACITANCE**



**FIG.5- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT**



## **4.0 Amp. Glass Passivated Single Phase In Line GBU Bridge Rectifier**

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