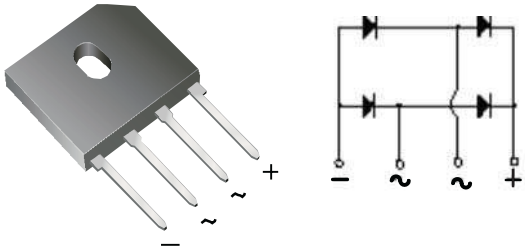



## 10.0 Amp. Glass Passivated Single Phase In Line GBU Bridge Rectifier

<p><b>GBU</b></p> 	<p><b>Voltage</b> 400 V to 1000 V</p>	<p><b>Current</b> 10.0 A</p>	
	<p><b>FEATURES</b></p> <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>		
	<p><b>MECHANICAL DATA</b></p> <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>		
	<p><b>TYPICAL APPLICATIONS</b></p> <p>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>		

### Maximum Ratings and Electrical Characteristics at 25 °C

Marking Code		GBU 1004G	GBU 1005G	GBU 1006G	GBU 1007G
		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 @ $T_C = 100\text{ }^\circ\text{C}$	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 $\mu\text{A}$ 500 $\mu\text{A}$
$R_{th(j-a)}$ $R_{th(j-c)}$	Typical Thermal Resistance (Note 2)	21 °C/W 2.0 °C/W

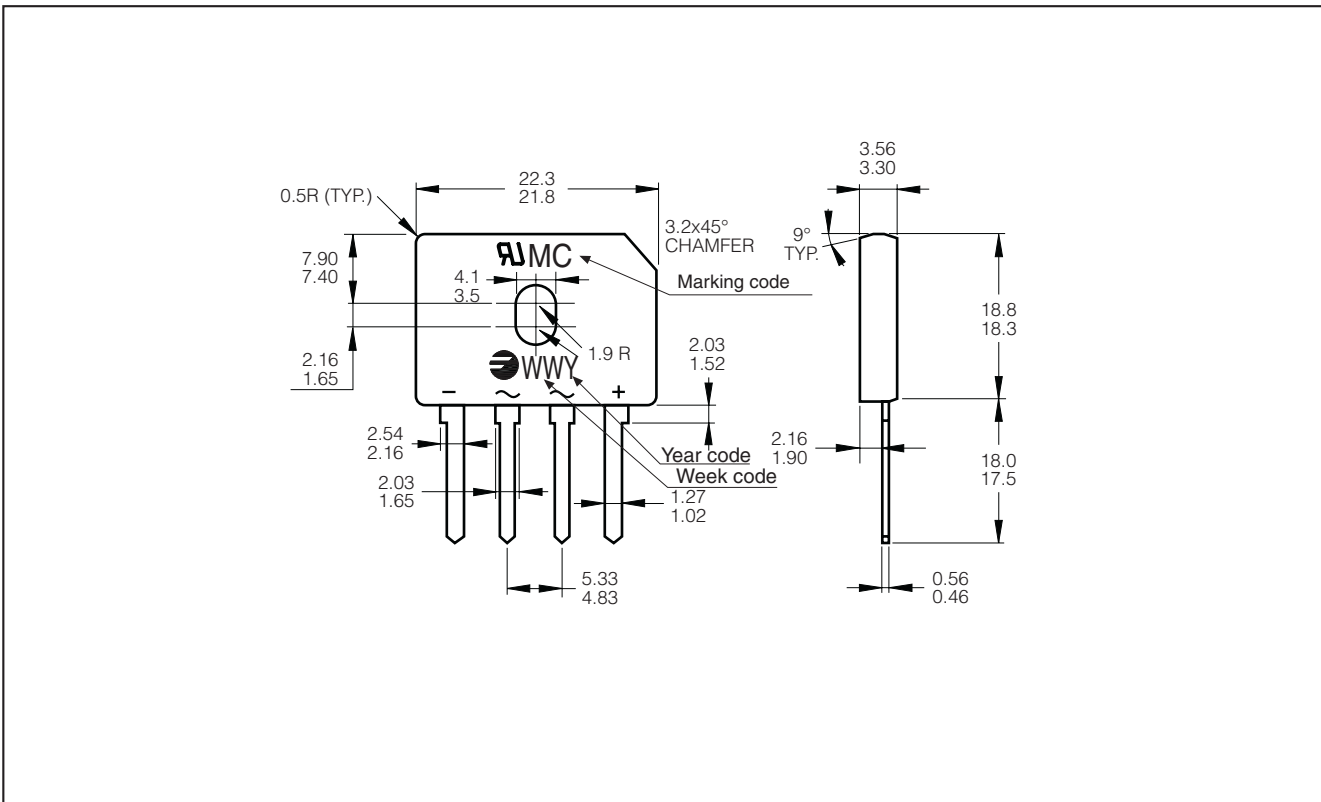
Notes: 1. Pulse Test with PW=300  $\mu\text{sec}$ , 1% Duty Cycle.  
 2. Mounted on Al. Plate of 4" x 6" x 0.25" Al-Plate Heat sink.  
 3. Measured at 1.0MHZ and Applied Reverse Voltage of 4.0 Volts. D.C.

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

**Ordering information**

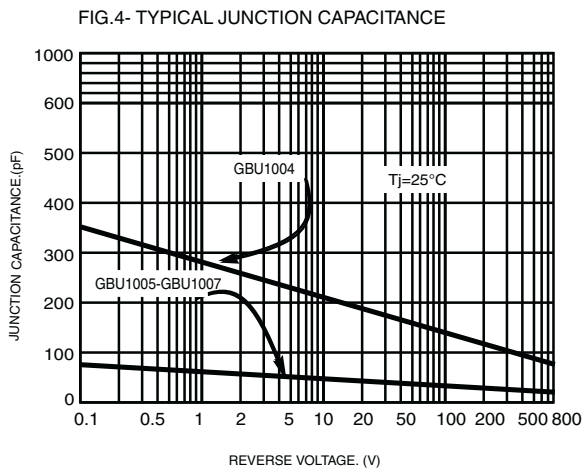
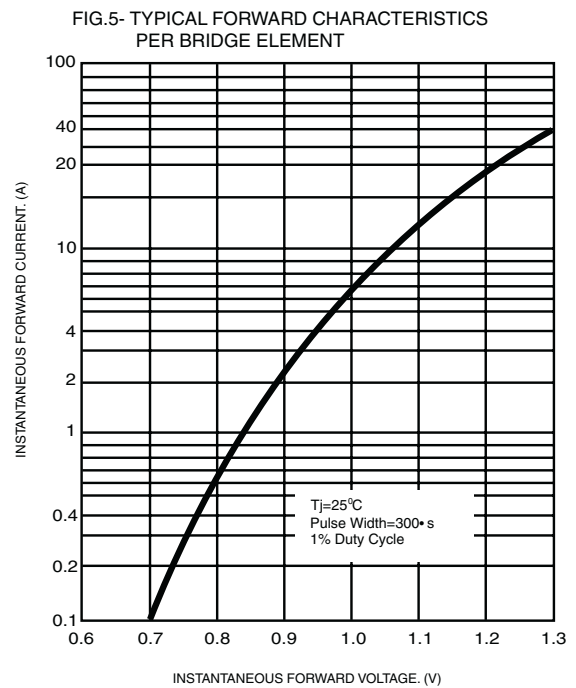
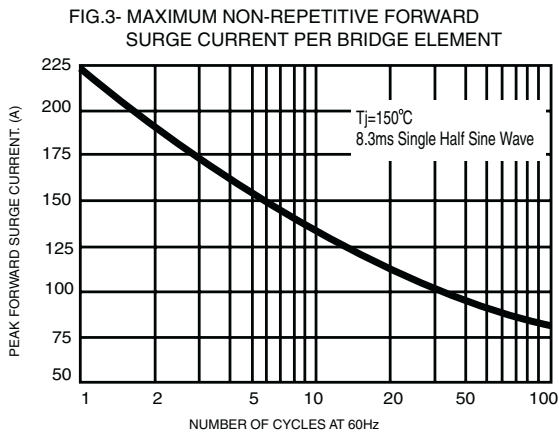
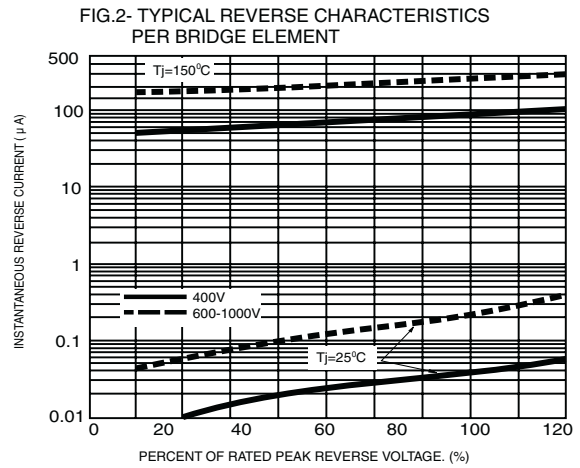
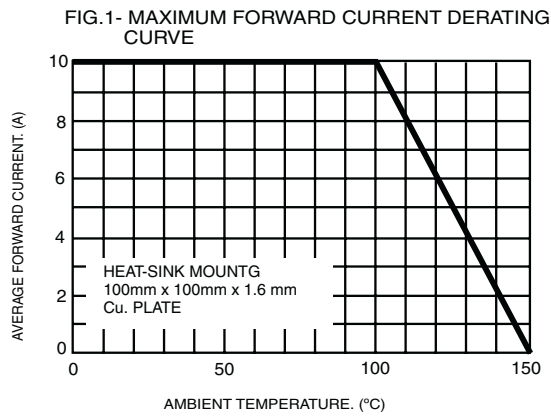
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
GBU1006G TU	TU	TUBE	20	4.05

**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**

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