

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

GBU 	Voltage 400 V to 1000 V	Current 6.0 A	
	FEATURES <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 2002/95/EC and WEEE 2002/96/EC 		 RoHS COMPLIANT
	MECHANICAL DATA <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 		
	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 604G	GBU 605G	GBU 606G	GBU 607G
Marking Code		GBU604G	GBU605G	GBU606G	GBU607G
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 @ $T_C = 90^\circ C$ @ $T_A = 25^\circ C$	6.0 A 3.0 A			
I_{FSM}	Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	175 A			
I^2t	Rating for fusing ($t < 8.3$ ms.)	127 A ² sec			
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 @ = 6.0 A @ = 3.0 A	1.1 V 1.0 V
I_R	Maximum DC Reverse Current @ $T_A = 25^\circ C$ at Rated DC Blocking Voltage (Note 1) @ $T_A = 125^\circ C$	5.0 μA 500 μA
$R_{th(j-a)}$ $R_{th(j-c)}$	Typical Thermal Resistance (Note 2)	20 °C/W 4.0 °C/W

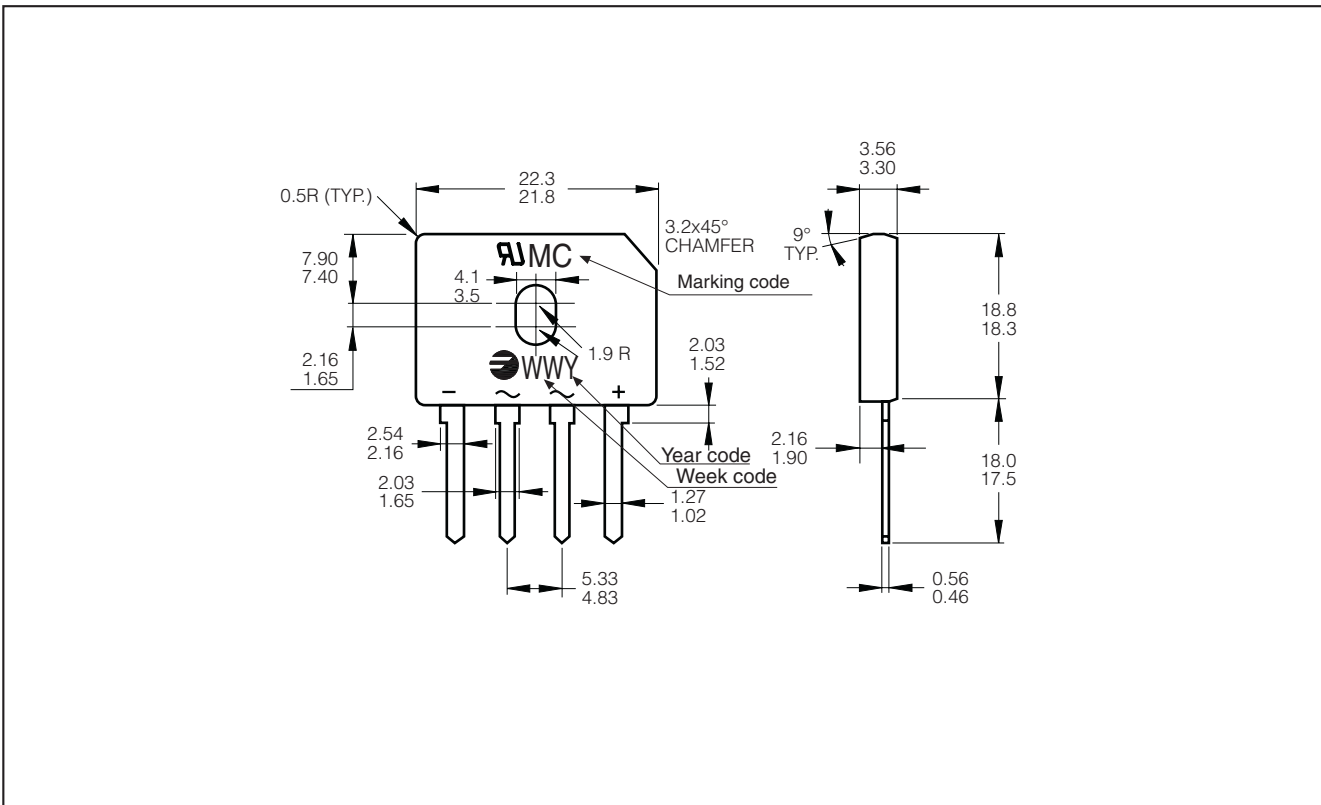
Notes: 1. Pulse Test with PW=300 μ sec, 1% Duty Cycle.
 2. Mounted on Al. Plate of 4" x 6" x 0.25" Al-Plate Heat sink.
 3. Measured at 1.0MHZ and Applied Reverse Voltage of 4.0 Volts. D.C.

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Ordering information

PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
GBU606G TU	TU	TUBE	20	3.85

Package Outline Dimensions: (mm) GBU



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

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

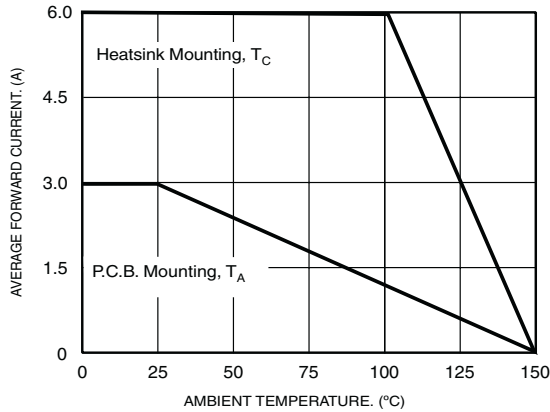


FIG.2- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

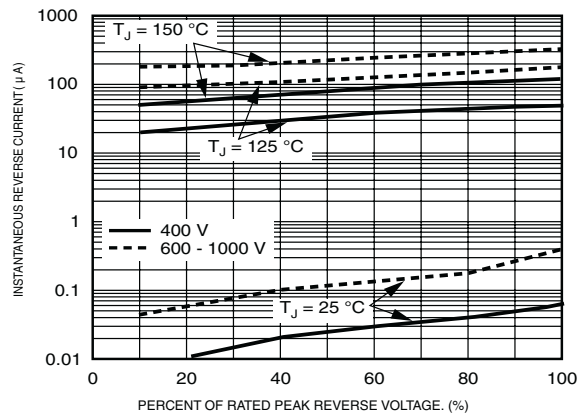


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

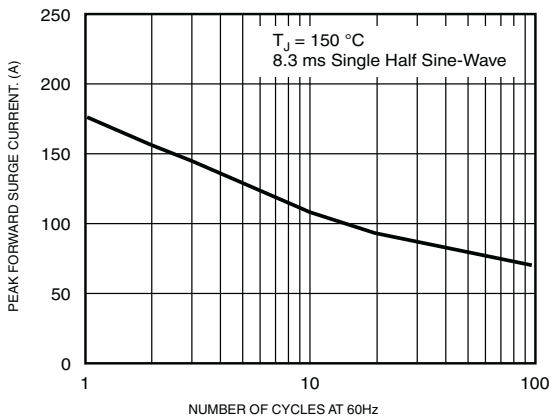


FIG.4- TYPICAL JUNCTION CAPACITANCE

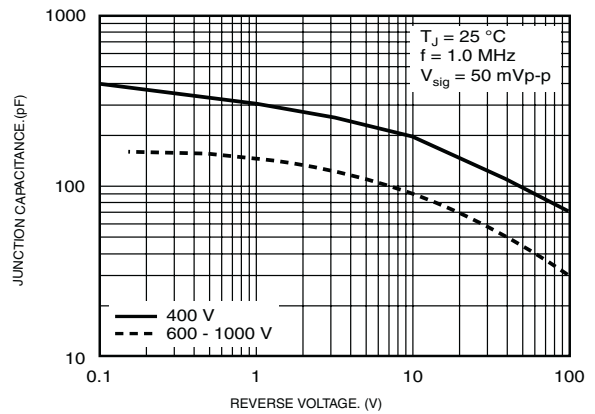
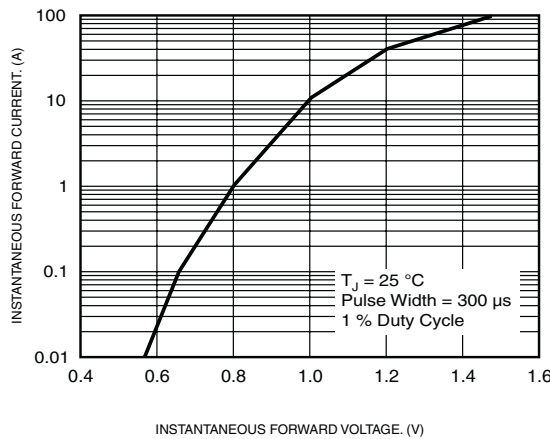


FIG.5- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT



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