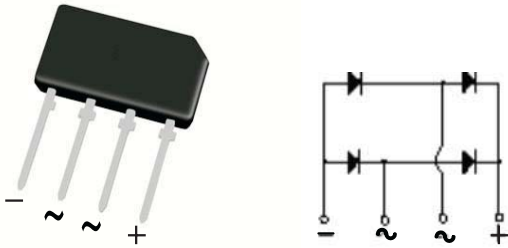




4.0 Amp. Glass Passivated Single Phase In Line GBL Bridge Rectifier

<p>GBL</p> 	<p>Voltage 200 V to 1000 V</p>	<p>Current 4.0 A</p>	
	<p>FEATURES</p> <ul style="list-style-type: none"> • UL recognition file number E320541 • Ideal for printed circuit board • High case dielectric strength • High surge current capability • Solder dip 260°C, 10s • Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC 		  RoHS COMPLIANT
	<p>MECHANICAL DATA</p> <ul style="list-style-type: none"> • Case: GBL. Epoxy meets UL 94V-0 flammability rating. • Polarity: As marked on body • 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</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

		GBL 02	GBL 04	GBL 06	GBL 08	GBL 10
V_{RRM}	Maximum Recurrent Peak Reverse Voltage (V)	200	400	600	800	1000
V_{RMS}	Maximum RMS Voltage (V)	140	280	420	560	700
V_{DC}	Maximum DC Blocking Voltage (V)	200	400	600	800	1000
$I_{F(AV)}$	Maximum Average Forward Rectified Current @ $T_C = 50\text{ °C}$ (Note 1) @ $T_A = 40\text{ °C}$ (Note 2)	4.0 A 3.0 A				
I_{FSM}	Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method) $T_j = 150\text{ °C}$	120 A				
I^2t	Rating for fusing ($t < 8.3\text{ ms}$)	60 A ² sec				
C_j	Typical Junction Capacitance Per Leg at 4.0V, 1 MHz	95 pF		40 pF		
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 @ = 2.0 A @ = 4.0 A	1.0 V 1.1 V
I_R	Maximum DC Reverse Current @ $T_A = 25\text{ °C}$ at Rated DC Blocking Voltage @ $T_A = 125\text{ °C}$	5.0 μ A 500 μ A
$R_{th(j-a)}$	Typical Thermal Resistance Per Leg (Note 1)	22 °C/W
$R_{th(j-l)}$	(Note 2)	3.5 °C/W

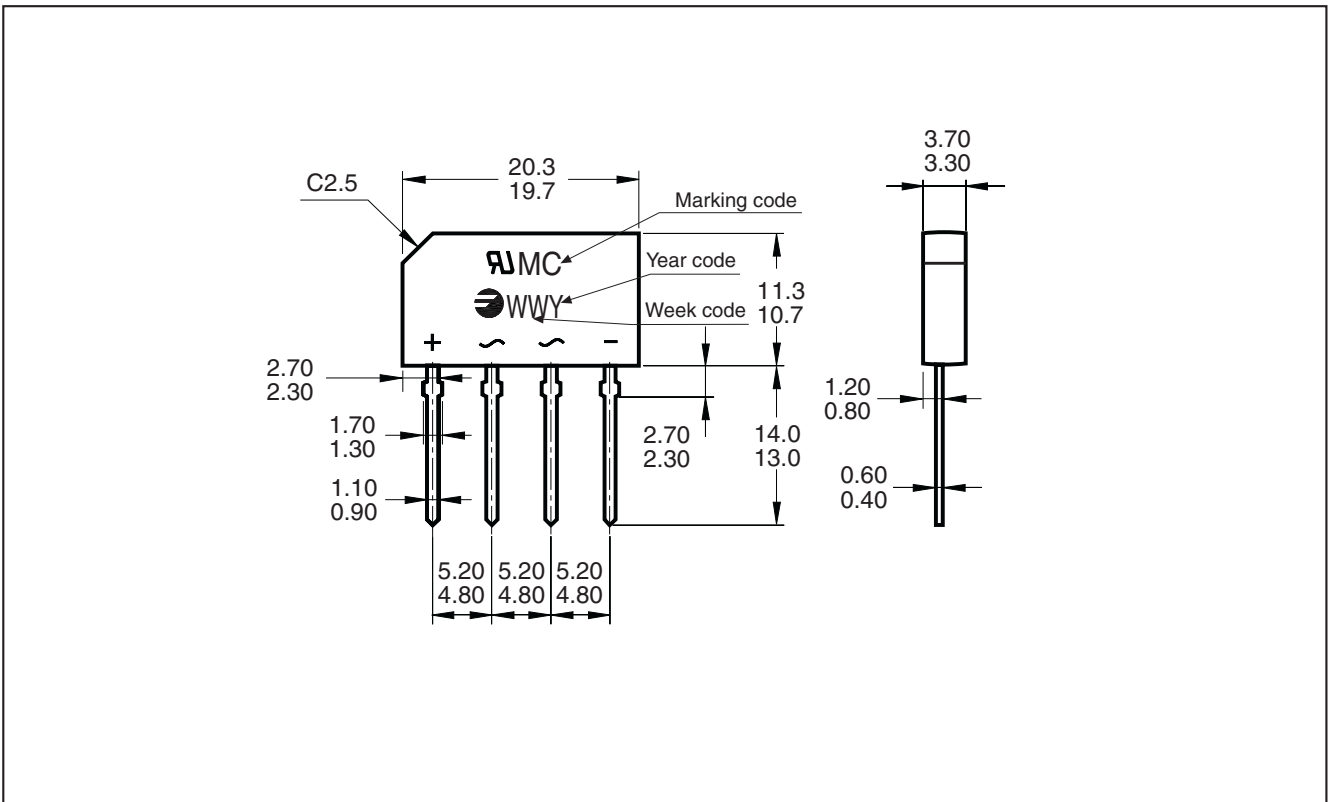
Notes: 1. Unit Mounted on 50.8mm x 76.2mm x 6.35mm Al plate.
2. Units Mounted on P.C.B. 12 x 12mm Copper Pads, 9.5mm Lead Length

4.0 Amp. Glass Passivated Single Phase In Line GBL Bridge Rectifier

Ordering information

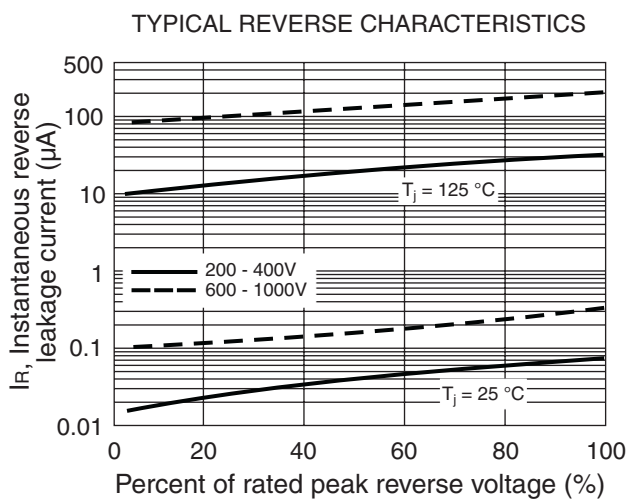
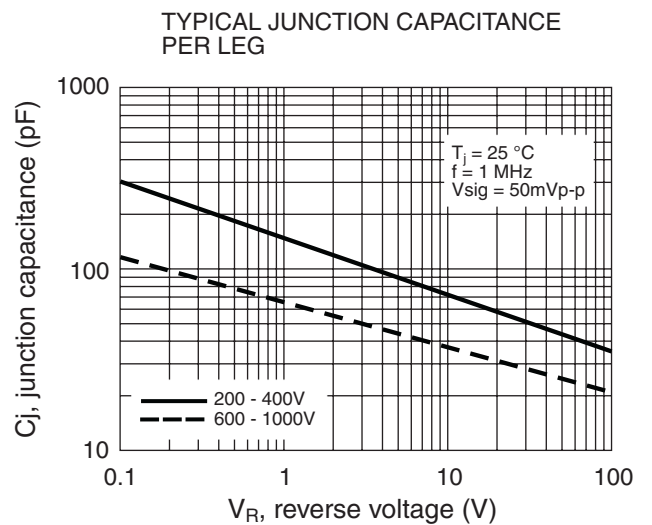
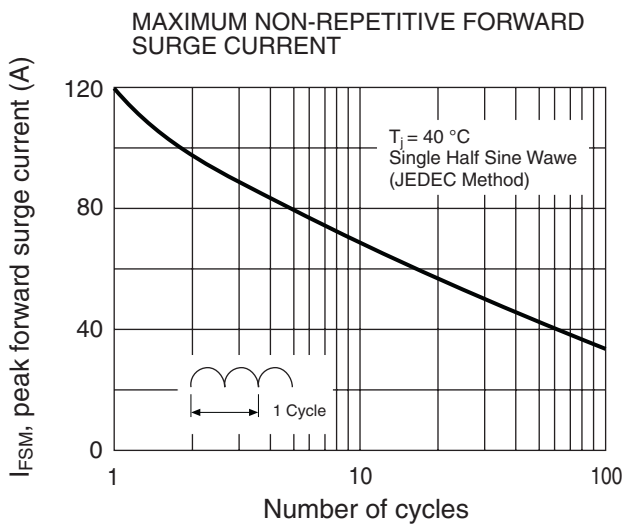
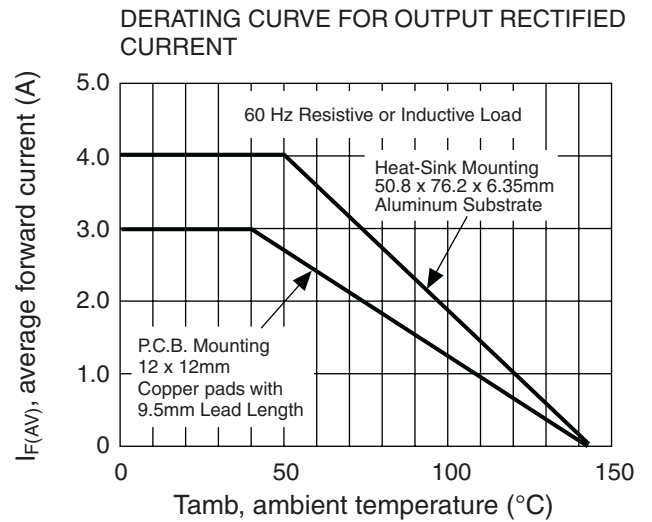
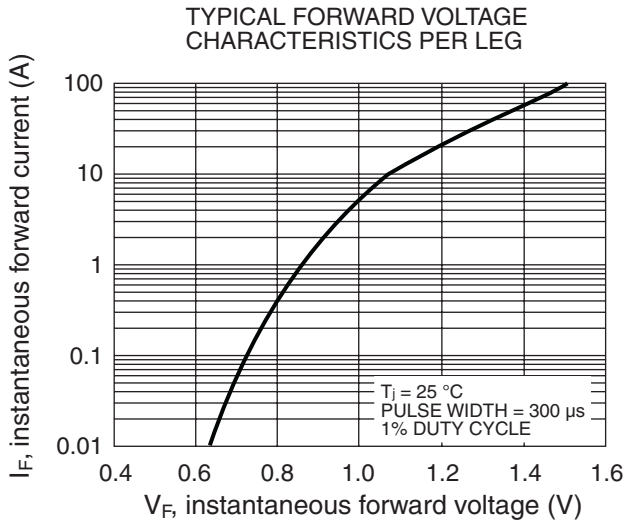
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
GBL04 TU	TU	TUBE	25	2.00

Package Outline Dimensions: (mm) GBL



4.0 Amp. Glass Passivated Single Phase In Line GBL Bridge Rectifier

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



4.0 Amp. Glass Passivated Single Phase In Line GBL Bridge Rectifier

Revision History

Date	Revision	Description of Changes
03-Jun-2010	0	Original Data Sheet
31-Aug-2016	1	Format update

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