



1W005GM THRU 1W10GM

Single Phase 1.0 AMP. Glass Passivated Bridge Rectifiers



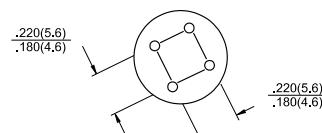
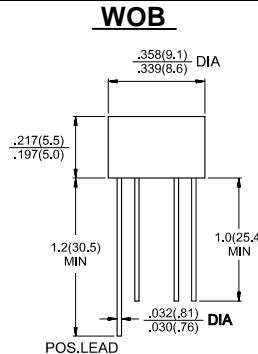
Voltage Range
50 to 1000 Volts
Current
1.0 Ampere

Features

- ◊ UL Recognized File # E-96005
- ◊ Glass passivated junction
- ◊ Surge overload ratings to 30 amperes peak
- ◊ Ideal for printed circuit board
- ◊ Reliable low cost construction technique results in inexpensive product
- ◊ High temperature soldering guaranteed: 250°C / 10 seconds / 0.375" (9.5mm) lead length at 5 lbs. (2.3 Kg) tension

Mechanical Data

- ◊ Cases: Molded plastic
- ◊ Lead: Solder plated
- ◊ Polarity: As marked
- ◊ Weight: 1.10 grams



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number	1W 005GM	1W 01GM	1W 02GM	1W 04GM	1W 06GM	1W 08GM	1W 10GM	Units
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ T _A = 50°C					1.0			A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)					30			A
Maximum Instantaneous Forward Voltage @ 1.0A					1.0			V
Maximum DC Reverse Current @ T _A =25°C at Rated DC Blocking Voltage @ T _A =125°C					10			uA
					500			uA
Typical Thermal Resistance (Note) R _{θJA} R _{θJL}				36				°C/W
				13				
Operating Temperature Range T _J				-55 to +150				°C
Storage Temperature Range T _{STG}				-55 to +150				°C

Note: Thermal resistance from Junction to Ambient and from Junction to Lead Mounted on P.C. B. with 0.47 x 0.47" (12x 12mm) Copper Pads.

RATINGS AND CHARACTERISTIC CURVES (1W005GM THRU 1W10GM)

FIG.1- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

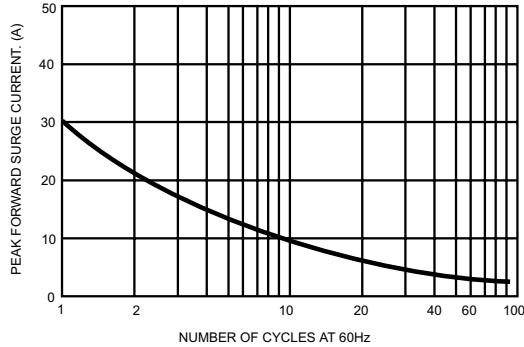


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

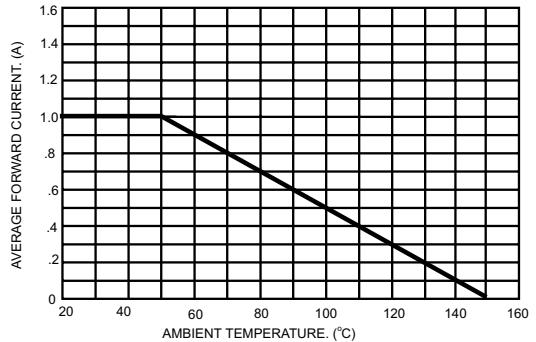


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

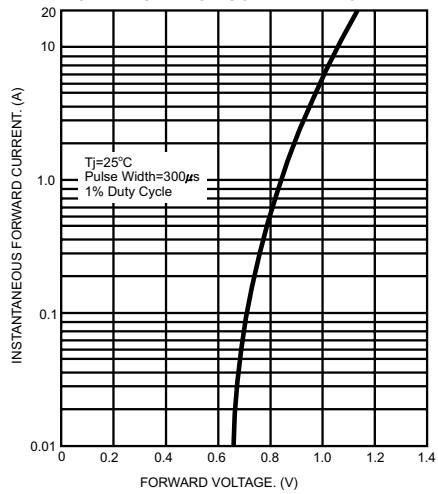


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

