W005GM THRU W10GM

Single Phase 1.5 AMPS. Glass Passivated Bridge Rectifiers

Voltage Range
50 to 1000 Volts
Current
1.5 Amperes

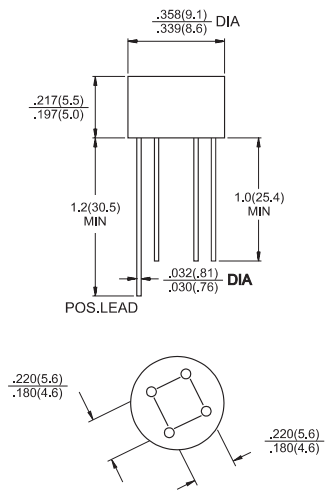
Features

- ✧ UL Recognized File # E-96005
- ✧ Glass passivated junction
- ✧ Surge overload ratings to 50 amperes peak
- ✧ Ideal for printed circuit board
- ✧ Reliable low cost construction technique results in inexpensive product
- ✧ High temperature soldering guaranteed: 260℃/ 10 seconds / 0.375" (9.5mm) lead length at 5 lbs. (2.3 Kg) tension

Mechanical Data

- ✧ Case: Molded plastic
- ✧ Lead: Solder plated
- ✧ Polarity: As marked
- ✧ Weight: 1.10 grams

WOB



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%

Type Number	Symbol	W 005GM	W 01GM	W 02GM	W 04GM	W 06GM	W 08GM	W 10GM	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T_A = 50℃	$I_{(AV)}$	1.5							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	50							A
Maximum Instantaneous Forward Voltage @ 1.5A	V_F	1.0							V
Maximum DC Reverse Current @ T_A=25℃ at Rated DC Blocking Voltage @ T_A=125℃	I_R	10 500							uA uA
Typical Thermal resistance (Note)	RθJA RθJL	36 13							℃/W
Operating Temperature Range	T_J	-55 to +150							℃
Storage Temperature Range	T_{STG}	-55 to +150							℃

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

REV.1 Oct.-2003

RATINGS AND CHARACTERISTIC CURVES (W005GM THRU W10GM)

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

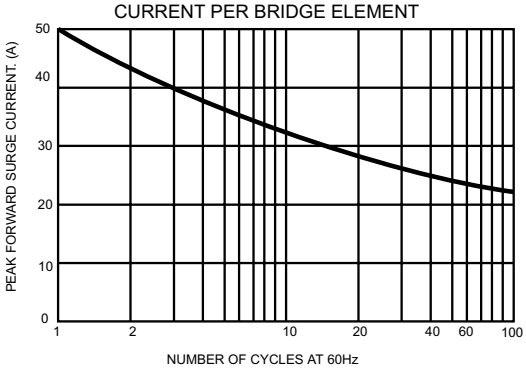


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

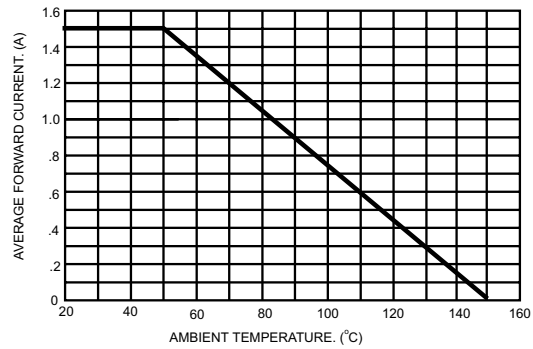


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

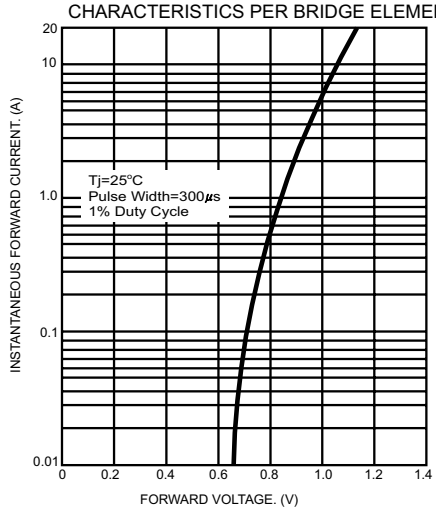


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT