



1W005M THRU 1W10M

Single Phase 1.0 AMP. Silicon Bridge Rectifiers



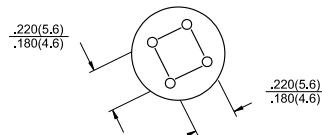
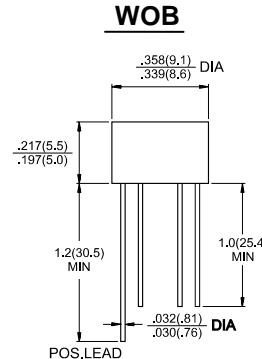
Voltage Range
50 to 1000 Volts
Current
1.0 Ampere

Features

- ✧ UL Recognized File # E-96005
- ✧ 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

- ✧ Case: 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	1W005M	1W01M	1W02M	1W04M	1W06M	1W08M	1W10M	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 =100°C				10	500			uA uA
Typical Thermal resistance (Note) R _{θJA} R _{θJL}				36	13			°C/W
Operating Temperature Range T _J				-55 to +125				°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" (12 x 12mm) Copper Pads.

RATINGS AND CHARACTERISTIC CURVES (1W005M THRU 1W10M)

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

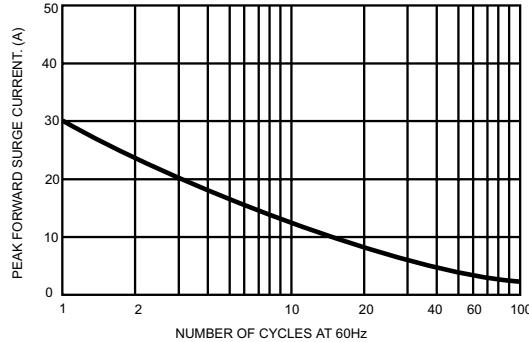


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

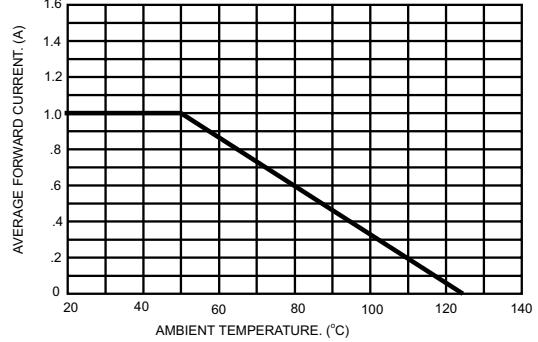


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

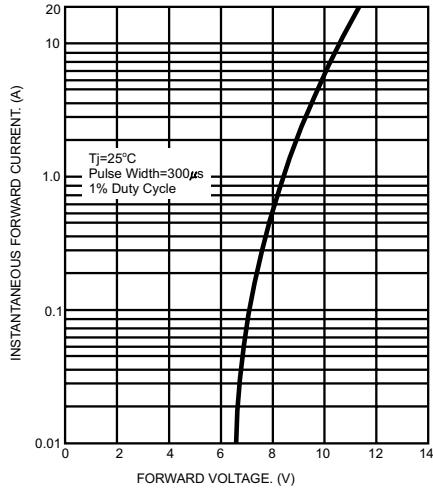


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

