

## 1W005M - 1W10M



# Single Phase 1.0 AMP. Silicon Bridge Rectifiers **WOB**



#### **Features**

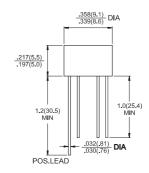
- ♦ UL Recognized File # E-96005
- ♦ Surge overload ratings to 30 amperes peak
- ♦ Ideal for printed circuit board
- Reliable low cost construction technique results in inexpensive product
- High temperature soldering guaranteed: 260 °C / 10 seconds / 0.375" ( 9.5mm ) lead length at 5 lbs. ( 2.3 Kg ) tension

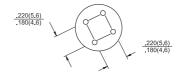
### **Mechanical Data**

♦ Case: Molded plastic

Lead: Pure tin plated, Lead free.

Polarity: As markedWeight: 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	Symbol	1W 005M	1W 01M	1W 02M	1W 04M	1W 06M	1W 08M	1W 10M	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 <sub>A</sub> = 50 °C	I <sub>(AV)</sub>	1.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	30							А
Maximum Instantaneous Forward Voltage @ 1.0A	V <sub>F</sub>	1.0							V
Maximum DC Reverse Current  @ T <sub>A</sub> =25 °C at Rated DC Blocking Voltage  @ T <sub>A</sub> =125 °C	I <sub>R</sub>	10 500							uA uA
Typical Thermal resistance (Note)	$R_{ heta JA} \ R_{ heta JL}$	36 13							°C/W
Operating Temperature Range	TJ	-55 to +125							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							°C

Note: Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B. with 0.2" x 0.2" (5mm x 5mm) Copper Pads.



#### RATINGS AND CHARACTERISTIC CURVES (1W005M THRU 1W10M)

