**TSC 9b** 

# W005M THRU W10M

Single Phase 1.5 AMPS. Silicon Bridge Rectifiers



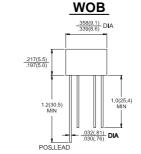
Voltage Range 50 to 1000 Volts Current 1.5 Amperes

#### **Features**

- ♦ UL Recognized File # E-96005
- ♦ Surge overload ratings to 40 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: 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	Symbol	W005M	W01M	W02M	W04M	W06M	W80W	W10M	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 $@T_A = 50^{\circ}C$	I <sub>(AV)</sub>	1.5							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	40							Α
Maximum Instantaneous Forward Voltage @ 1.5A	V <sub>F</sub>	1.0							V
Maximum DC Reverse Current @ $T_A$ =25 $^{\circ}$ C at Rated DC Blocking Voltage @ $T_A$ =100 $^{\circ}$ C	I <sub>R</sub>	10 500							uA uA
Typical thermal Resistance (Note)	$R heta_{JA} \ R heta_{JL}$	36 13							<b>℃</b> /W
Operating Temperature Range	TJ	-55 to +125							C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							Ç

Note: Thermal Resistance from Juncton to Ambient and from Junction to Lead Mounted on P.C.B. At 0.375" (9.5mm) Lead Lengths with 0.4 x 0.4" (10 x 10mm) Copper Pads.



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

FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

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