TSC 9b

1W005M THRU **1W10M**

Single Phase 1.0 AMP. Silicon Bridge Rectifiers



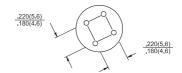
Voltage Range 50 to 1000 Volts Current 1.0 Ampere

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

.358(9.1) DIA .339(8.6) DIA .217(5.5) .197(5.0) 1.2(30.5) MIN POS.LEAD POS.LEAD



Dimensions in inches and (millimeters)

Mechanical Data

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

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 $@T_A = 50^{\circ}C$	I _(AV)	1.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	30							Α
Maximum Instantaneous Forward Voltage @ 1.0A	V _F	1.0							V
Maximum DC Reverse Current @ T _A =25°C at Rated DC Blocking Voltage @ T _A =100°C	I _R	10 500							uA uA
Typical Thermal Resistance (Note)	$R heta_{JA} \ R heta_{JL}$	36 13							℃/W
Operating Temperature Range	TJ	-55 to +125							$^{\circ}$
Storage Temperature Range	T _{STG}	-55 to +150							$^{\circ}$

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)

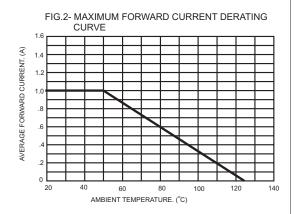


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

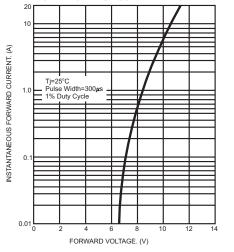


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

