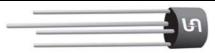
TSC 9b

1W005GM THRU **1W10GM**

Single Phase 1.0 AMP. Glass Passivated Bridge Rectifiers



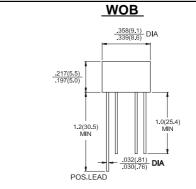
Voltage Range 50 to 1000 Volts Current 1.0 Ampere

Features

- ♦ UL Recognized File # E-96005
- ♦ Glass passivated junction
- 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

Cases: 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	1W 005GM	1W 01GM	1W 02GM	1W 04GM	1W 06GM	1W 08GM	1W 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	٧
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 =125°C	I_{R}	10 500						uA uA	
3 3								uA	
Typical Thermal Resistance (Note)	$R heta_{JA} \ R heta_{JL}$	36 13							C /W
Operating Temperature Range	TJ	-55 to +150							C
Storage Temperature Range	T _{STG}	-55 to +150							Ç

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 (1W005GM THRU 1W10GM)

FIG.1- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT PEAK FORWARD SURGE CURRENT. (A) 40 10 0 40 100 2 60 NUMBER OF CYCLES AT 60Hz

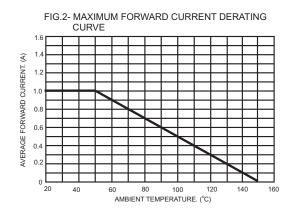


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

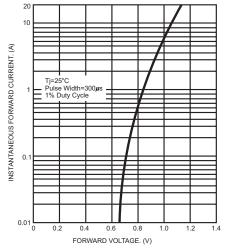


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

