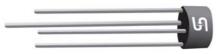
TSC 9b

1W005 THRU 1W10

Single Phase 1.0 AMP. Silicon Bridge Rectifiers



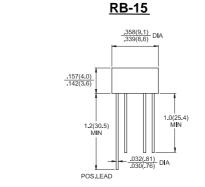
Voltage Range 50 to 1000 Volts Current 1.0 Ampere

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: 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: 1.07 grams





Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Single phase, half wave, 60 Hz, resistive or inductive load.

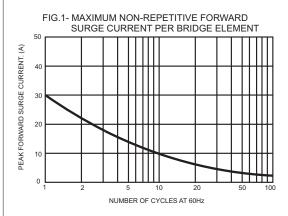
For capacitive load, derate current by 20%

For capacitive load, derate current by 20%									
Type Number	Symbol	1W005	1W01	1W02	1W04	1W06	1W08	1W10	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	>
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°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° 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							C /W
Operating Temperature Range	TJ	-55 to +125							Ų
Storage Temperature Range	T _{STG}	-55 to +150							μ

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



RATINGS AND CHARACTERISTIC CURVES (1W005 THRU 1W10)



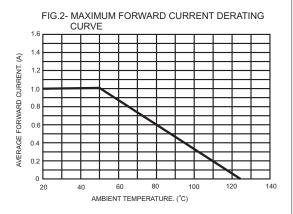


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

