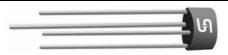
TSC 9b

W005 THRU **W10**

Single Phase 1.5 AMPS. Silicon Bridge Rectifiers



Voltage Range 50 to 1000 Volts Current 1.5 Amperes

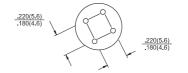
Features

- ♦ 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: 1.07 grams

RB-15 -358(9.1) DIA -339(8.6) DIA -157(4.0) -142(3.6) 1.2(30.5) MIN POS.LEAD



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%

If of capacitive load, defate current by 20%									
Type Number	Symbol	W005	W01	W02	W04	W06	W08	W10	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)				1.5				Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	40							Α
Maximum Instantaneous Forward Voltage @ 1.5A	V _F	1.0							>
Maximum DC Reverse Current @ T _A =25°C	I _R	10							uA
at Rated DC Blocking Voltage @ T _A =100℃	'''				500				uA
Typical Thermal Resistance (Note)	$R\theta_{JA}$				36				℃/W
	$R\theta_{JL}$				13				
Operating Temperature Range	TJ			-55	5 to +1	25			${\mathbb C}$
Storage Temperature Range	T _{STG}			-55	5 to +1	50			${\mathbb C}$

Note: Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B. With 0.4" x 0.4" (10mm x 10mm) Copper Pads.



RATINGS AND CHARACTERISTIC CURVES (W005 THRU W10)

FIG.1- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

10

10

10

10

10

10

NUMBER OF CYCLES AT 60Hz

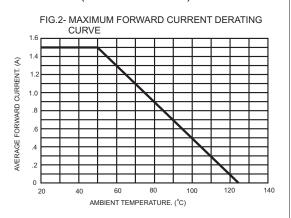


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

