TSC 9b

W005 THRU **W10**

Single Phase 1.5 AMPS. Silicon Bridge Rectifiers



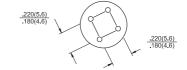
Voltage Range 50 to 1000 Volts Current 1.5 Amperes

RB-15

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

.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)

Mechanical Data

♦ Case: Molded plastic
 ♦ Lead: solder plated
 ♦ Polarity: As marked
 ♦ Weight: 1.07 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.

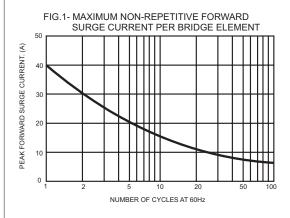
For capacitive load, derate current by 20%

i or capacitive load, derate 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							V
Maximum DC Reverse Current @ $T_A=25^{\circ}$ C at Rated DC Blocking Voltage @ $T_A=100^{\circ}$ 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							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 0.4 x 0.4" (10 x 10mm) Copper Pads.



RATINGS AND CHARACTERISTIC CURVES (W005 THRU W10)



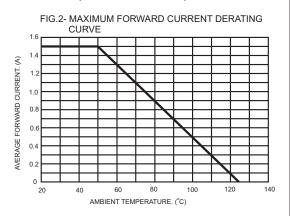


FIG.3- TYPICAL INSTANTANEOUS FORWARD
CHARACTERISTICS PER BRIDGE ELEMENT

