**TSC 9b** 

## W005G THRU W10G

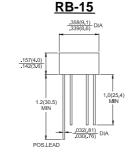
Single Phase 1.5 AMPS. Glass Passivated Bridge Rectifiers



Voltage Range 50 to 1000 Volts Current 1.5 Amperes

## **Features**

- ♦ UL Recognized File # E-96005
- ♦ Glass passiviated junction
- Surge overhoad ratings to 50 amperes peak
- 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





**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	W005G	W01G	W02G	W04G	W06G	W08G	W10G	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 <sub>(AV)</sub>	1.5							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	50							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 @ $T_A$ =125 $^{\circ}$ C	$I_R$	10 500							uA uA
Typical Thermal Resistance (Note)	$R  heta_{JA} \ R  heta_{JL}$	36 13							<b>€</b> /W
Operating Temperature Range	TJ	-55 to +150							C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							C

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 (W005G THRU W10G)

AMBIENT TEMPERATURE. (°C)

FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

