



W005G THRU W10G

Single Phase 1.5 AMPS. Glass Passivated Bridge Rectifiers

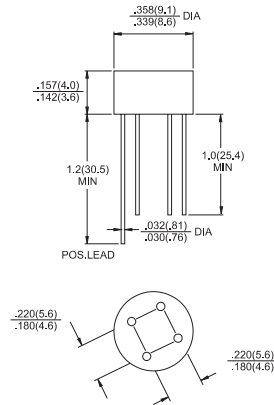


Voltage Range
50 to 1000 Volts
Current
1.5 Amperes

Features

- ✧ UL Recognized File # E-96005
- ✧ Glass passivated junction
- ✧ Surge overload ratings to 50 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

RB-15



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	W	W	W	W	W	W	W	W	Units
		005G	01G	02G	04G	06G	08G	10G		
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 @ $T_A = 50^\circ\text{C}$	$I_{(AV)}$	1.5								A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	50								A
Maximum Instantaneous Forward Voltage @ 1.5A	V_F	1.0								V
Maximum DC Reverse Current @ $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A=125^\circ\text{C}$	I_R	10								μA
		500								μA
Typical Thermal Resistance (Note)	$R_{\theta JA}$	36								$^\circ\text{C/W}$
	$R_{\theta JL}$	13								$^\circ\text{C/W}$
Operating Temperature Range T_J	T_J	-55 to +150								$^\circ\text{C}$
Storage Temperature Range T_{STG}	T_{STG}	-55 to +150								$^\circ\text{C}$

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)

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

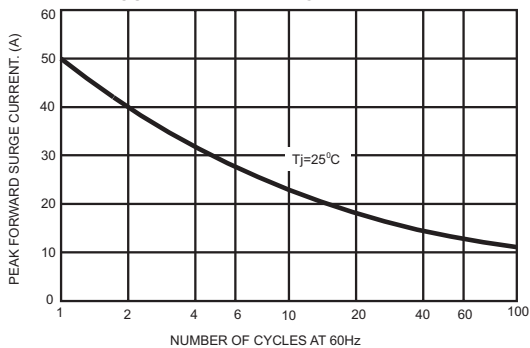


FIG. 2- MAXIMUM FORWARD CURRENT DERATING CURVE

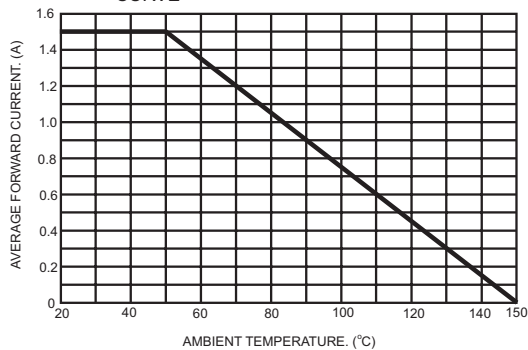


FIG. 3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

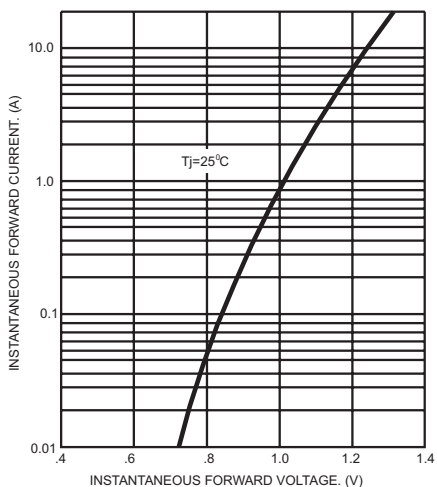


FIG. 4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

