



1W005G THRU 1W10G

SINGLE PHASE 1.0 AMP . GLASS PASSIVATED BRIDGE RECTIFIERS



FEATURES

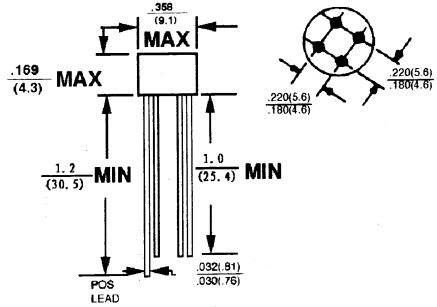
- * Surge overload ratings to 30 amperes peak
- * Ideal for printed circuit board
- * Reliable low cost construction technique results in inexpensive product

VOLTAGE RANGE

50 to 1000 Volts

CURRENT
1.0 Ampere

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	SYMBOLS	1W 005G	1W 01G	1W 02G	1W 04G	1W 06G	1W 08G	1W 10G	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum D.C Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ $T_A = 50^\circ C$	$I_{F(AV)}$	1.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	30							A
Maximum Forward Voltage Drop per element @ 1.0A	V_F	1.10							V
Maximum Reverse Current at Rated @ $T_A = 25^\circ C$ D.C. Blocking Voltage per element @ $T_A = 125^\circ C$	I_R	10 500							μA μA
Operating Temperature Range	T_J	- 55 to + 150							$^\circ C$
Storage Temperature Range	T_{STG}	- 55 to + 150							$^\circ C$

RATINGS AND CHARACTERISTIC CURVES (1W005G THRU 1W10G)

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

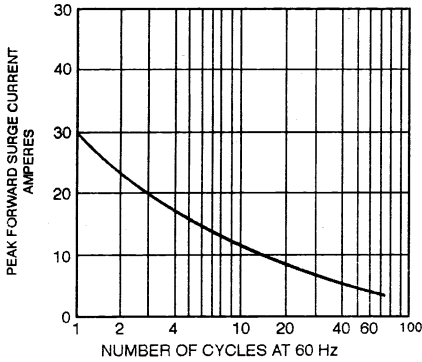


FIG. 2 - TYPICAL FORWARD OUTPUT CURRENT DERATING CURVE

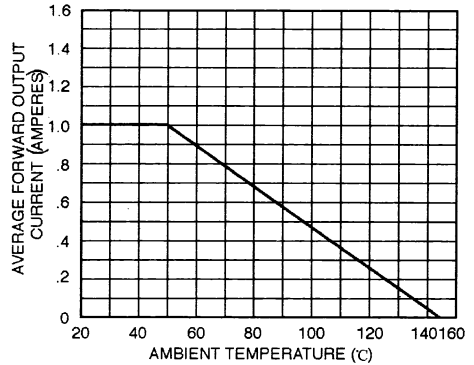


FIG. 3 - TYPICAL FORWARD CHARACTERISTICS PER ELEMENT

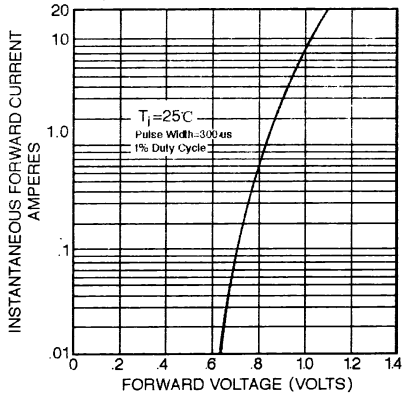


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS PER ELEMENT

