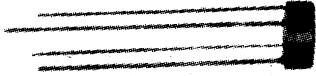




# 1W005G THRU 1W10G

**SINGLE PHASE 1.0 AMP . GLASS PASSIVATED BRIDGE RECTIFIERS**



## FEATURES

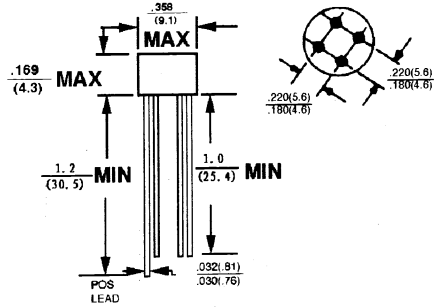
- \* Surge overload ratings to 30 amperes peak
- \* Ideal for printed circuit board
- \* Reliable low cost construction technique results in inexpensive product

## VOLTAGE RANGE

50 to 1000 Volts

CURRENT  
1.0 Ampere

### RB-15



Dimensions in inches and (millimeters)

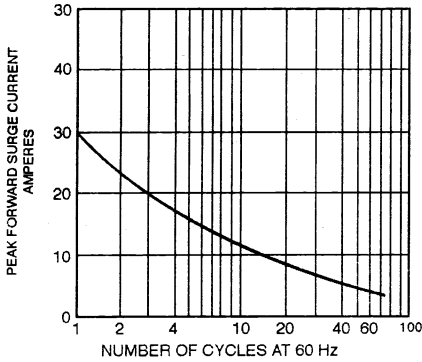
## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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%

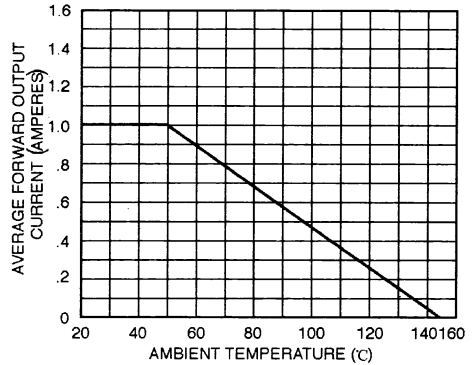
TYPE NUMBER	SYMBOLS	1W 005G	1W 01G	1W 02G	1W 04G	1W 06G	1W 08G	1W 10G	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum D.C Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum 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							$\mu A$ $\mu A$
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)

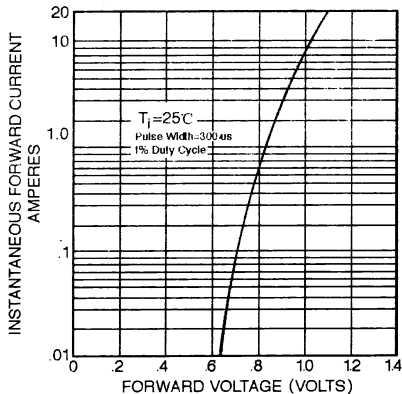
**FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT - PER ELEMENT**



**FIG. 2 - TYPICAL FORWARD OUTPUT CURRENT DERATING CURVE**



**FIG. 3 - TYPICAL FORWARD CHARACTERISTICS PER ELEMENT**



**FIG. 4 - TYPICAL REVERSE CHARACTERISTICS PER ELEMENT**

