

SINGLE-PHASE BRIDGE RECTIFIER

W005G THRU W10G

**VOLTAGE RANGE
CURRENT**

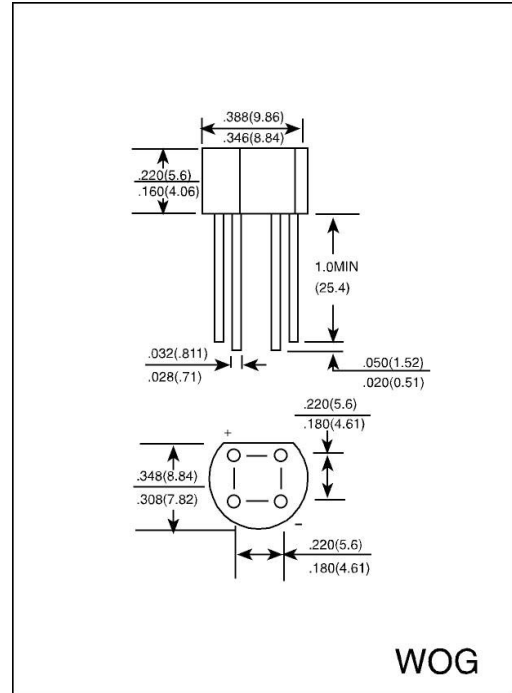
**50 to 1000 Volts
1.5 Ampere**

FEATURES

- Plastic package has underwriters laboratory
- Flammability classification 94V-0
- Glass passivated chip junction
- High case dielectric strength
- Typical I_R less than $0.1 \mu A$
- High surge current capability
- Ideal for printed circuit boards
- High temperature soldering guaranteed
260°C/10 seconds, 0.375" (9.5mm) lead length at 5 lbs (2.3kg) tension

MECHANICAL DATA

- Case: Molded Plastic body over passivated junctions
- Terminal: Plated leads solderable per MIL - STD - 750 method 2026
- Mounting position : Any
- Weight: 0.04 ounce, 1.1 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25°C ambient temperature unless otherwise specified

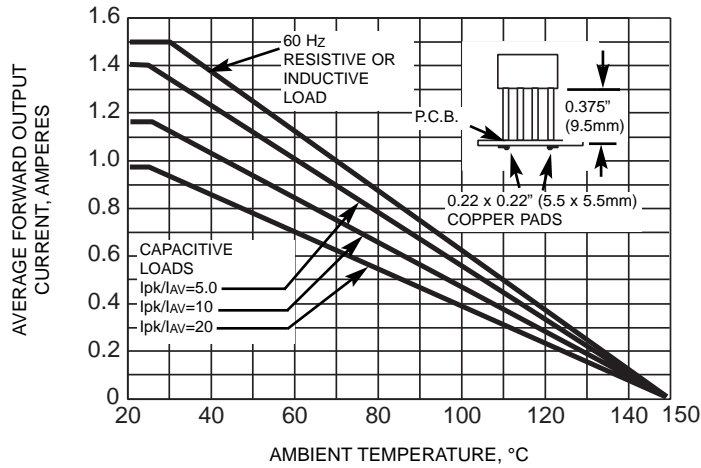
	SYMBOLS	W005G	W01G	W02G	W04G	W06G	W08G	W10G	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current, at $T_A = 25^\circ C$ (Note 2)	$I_{(AV)}$	1.5							Amps
Peak Forward Surge Current 8.3ms single half sine - wave superimposed on rated load (JEDEC method)	I_{FSM}	50							Amps
Rating for Fusing ($t < 8.3ms$)	I^2t	10							A^2s
Maximum Instantaneous Forward Voltage Drop per element at 1.0A DC	V_F	1.0							Volts
Maximum Average Reverse Current at rated DC blocking voltage	$T_A = 25^\circ C$	5.0							μA
	$T_A = 100^\circ C$	500.0							mA
Typical Junction Capacitance per leg at 4.0V, 1MHz	C_j	14							pF
Typical Thermal Resistance per leg (Note1)	$R_{\theta JI}$	14							$^\circ C/W$
	$R_{\theta JA}$	36							
Operating Temperature Range	T_J	(-55 to +150)							$^\circ C$
Storage Temperature Range	T_{STG}	(-55 to +150)							

NOTES:

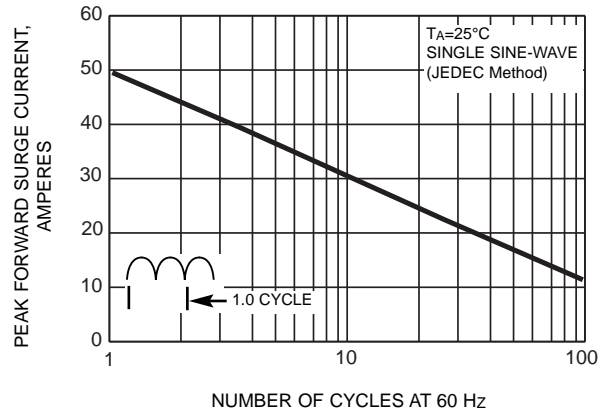
1. Thermal resistance from junction to lead at 0.375" (9.5mm) lead length P.C.B. mounting.

Ratings and Characteristic Curves W005G THRU W10G

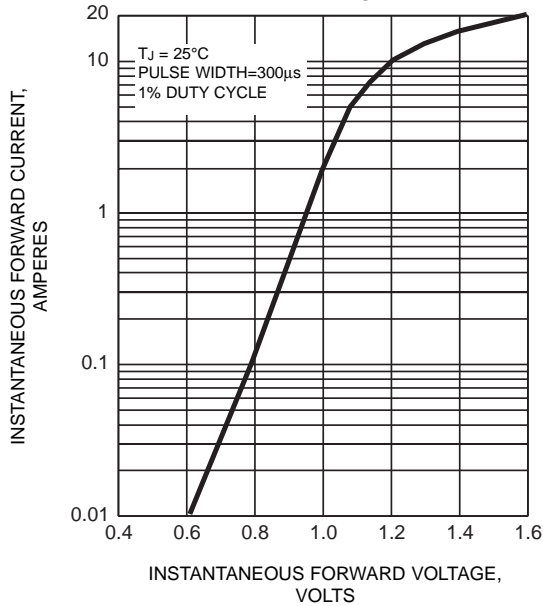
**FIG. 1 - DERATING CURVE
OUTPUT RECTIFIED CURRENT**



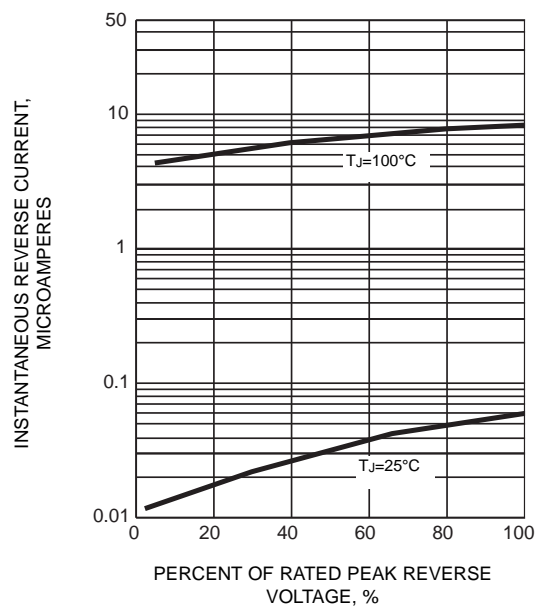
**FIG. 2 - MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT PER LEG**



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



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



**FIG. 5 - TYPICAL JUNCTION CAPACITANCE
PER LEG**

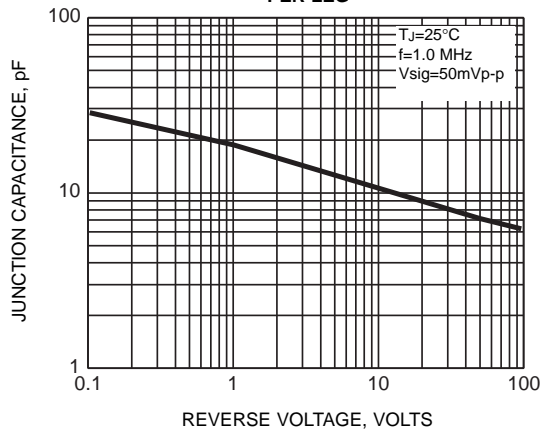


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

