

1.5A Glass Passivated Bridge Rectifier

Features

- Glass passivated chip junction
- High case dielectric strength
- Typical I_R less than 0.1 μ 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 5lbs.(2.3kg) tension
- This series is UL recognized under component index, File number E194718
- RoHS compliant



WOG



Mechanical Data

Case:	WOG, Epoxy meets UL 94V-0 flammability rating
Terminals:	Plated leads solderable per MIL-STD-750, Method 2026
Polarity:	As marked on case
Weight:	0.04 ounce, 1.1 grams

Maximum Ratings And Electrical Characteristics ($T_{amb}=25^{\circ}\text{C}$)

Symbols	Parameter	W005G	W01G	W02G	W04G	W06G	W08G	W10G	Unit	Conditions
V_{RRM}	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
V_{RMS}	Maximum RMS Voltage	35	70	140	280	420	560	700	V	
V_{DC}	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
I_{F(AV)}	Maximum Average Forward Rectified Current at 0.375" (9.5mm) lead length	1.5							A	$T_A=25^{\circ}\text{C}$
I_{FSM}	Peak Forward Surge Current	50							A	8.3ms Single Sine-wave Superimposed on Rated Load (JEDEC Method)
I²_t	Rating for Fusing ($t<8.3\text{ms}$)	10							A ² sec	

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W005G - W10G

Symbols	Parameter	W005G	W01G	W02G	W04G	W06G	W08G	W10G	Unit	Conditions
V _F	Maximum Instantaneous Forward Voltage Drop per leg	1.0							V	I _F =1.0A
I _R	Maximum DC Reverse Current at Rated DC Blocking Voltage per leg	5.0							μA	T _A =25°C
		500								T _A =125°C
C _J	Typical Junction Capacitance per leg	14							pF	V _R =4V, f=1MHz
R _{θJA}	Typical Thermal Resistance per leg	36							°C/W	Note 1
R _{θJL}		11								
T _J ,T _{STG}	Operating Junction and Storage Temperature Range	-55 to +150							°C	

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

P.C.B. size 0.22 x 0.22" (5.5 x 5.5mm).

Rating and Characteristic Curves

Fig.1- Derating Curve Output Rectified Current

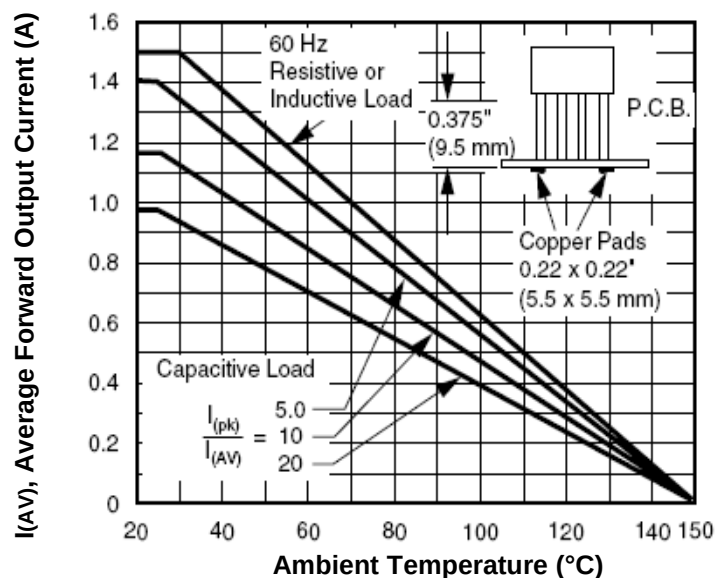
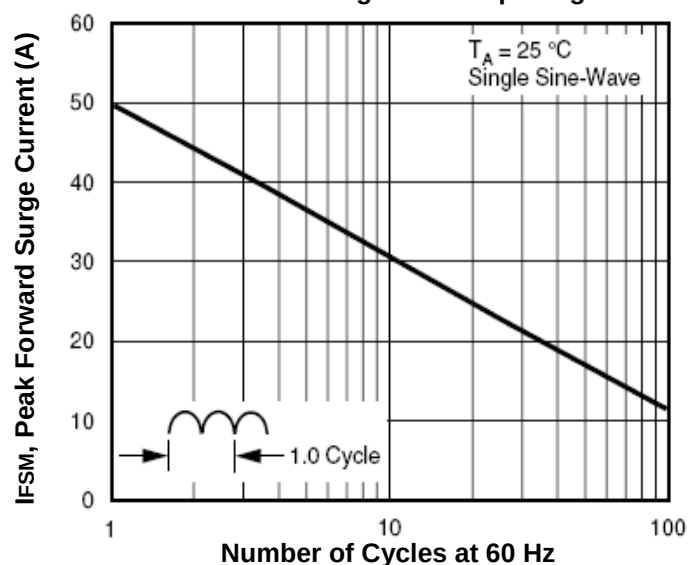


Fig.2-Maximum Non-Repetitive Peak Forward Surge Current per leg



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Fig.3-Typical Forward Characteristics
per leg

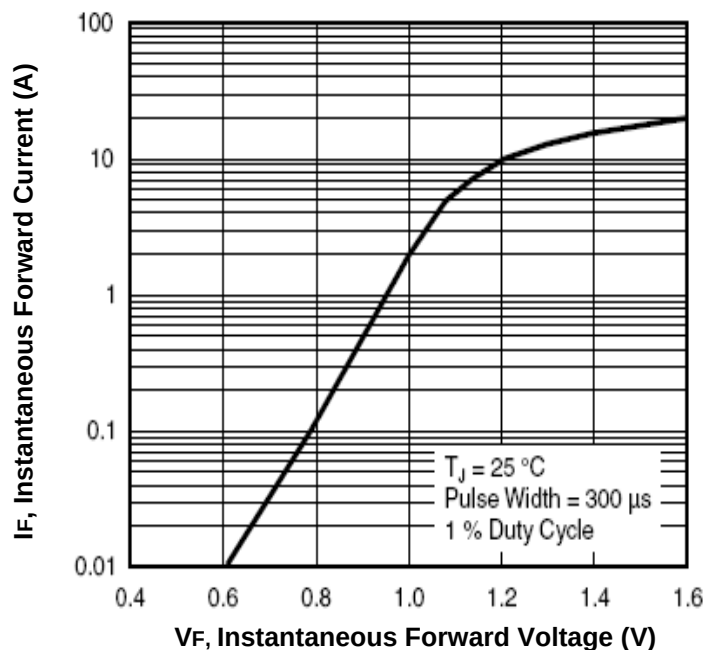


Fig.4-Typical Reverse Leakage Characteristics
per leg

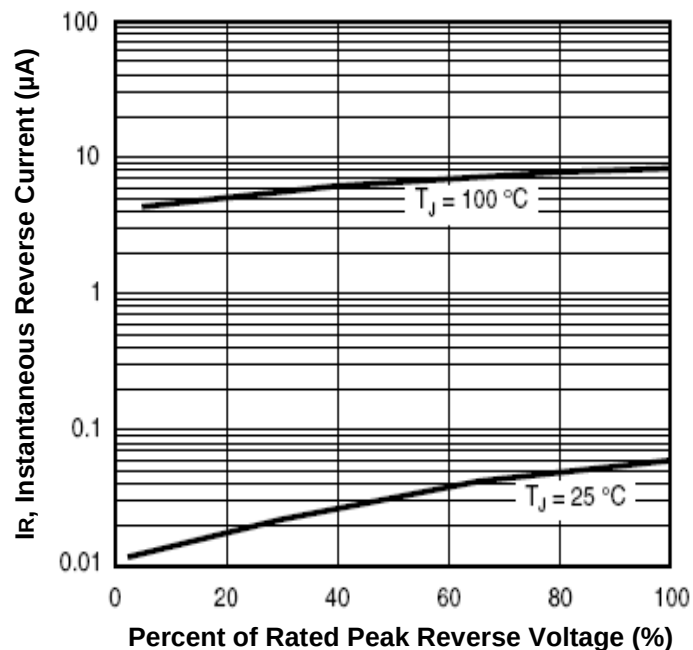
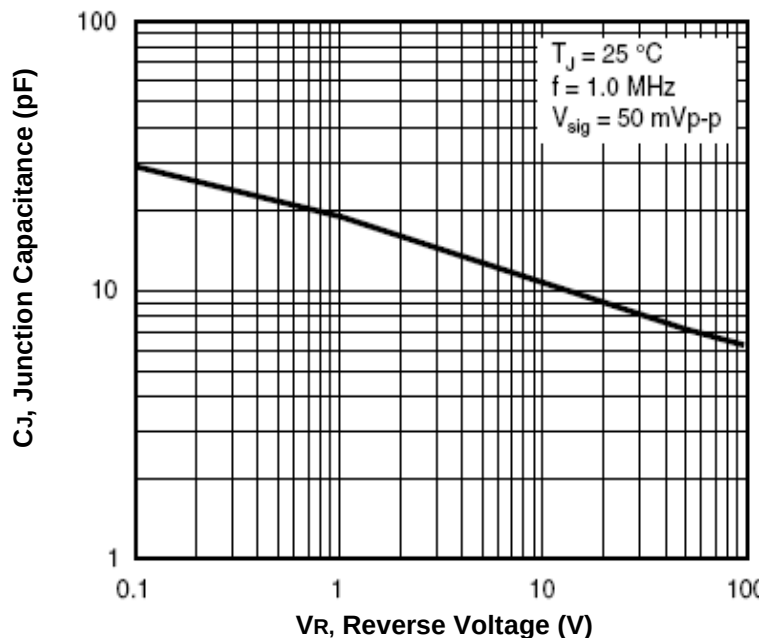


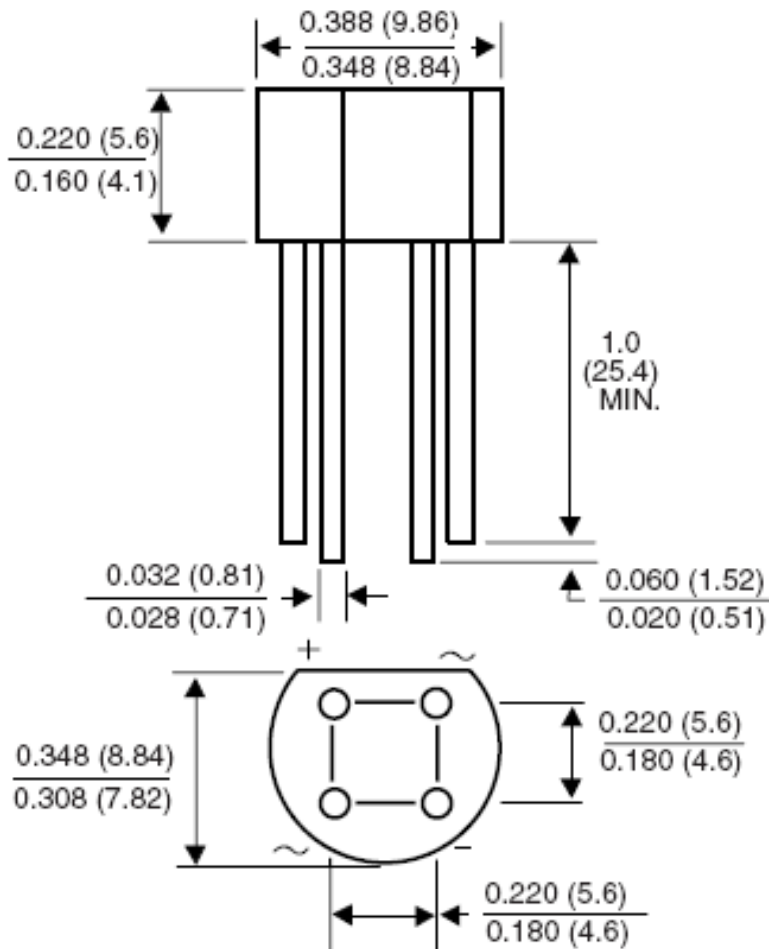
Fig.5-Typical Junction Capacitance
per leg



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Dimensions in inch (mm)



Case Style WOG

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