

## 2A Glass Passivated Bridge Rectifier

### Features

- Glass passivated chip junction
- High case dielectric strength
- Typical  $I_R$  less than  $0.5\mu A$
- High surge current capability
- Ideal for printed circuit boards
- High temperature soldering guaranteed:  $260^\circ C/10$  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

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

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

Symbols	Parameter	2W 005G	2W 01G	2W 02G	2W 04G	2W 06G	2W 08G	2W 10G	Unit	Conditions
<b>V<sub>RRM</sub></b>	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
<b>V<sub>RMS</sub></b>	Maximum RMS Voltage	35	70	140	280	420	560	700	V	
<b>V<sub>DC</sub></b>	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
<b>I<sub>(AV)</sub></b>	Maximum Average Forward Rectified Current at 0.375" (9.5mm) lead length	2.0							A	
<b>I<sub>FSM</sub></b>	Peak Forward Surge Current	60							A	8.3ms Single Sine-wave Superimposed on Rated Load (JEDEC Method)
<b>I<sub>t</sub></b>	Rating for Fusing (t<8.3ms)	15							A <sup>2</sup> sec	

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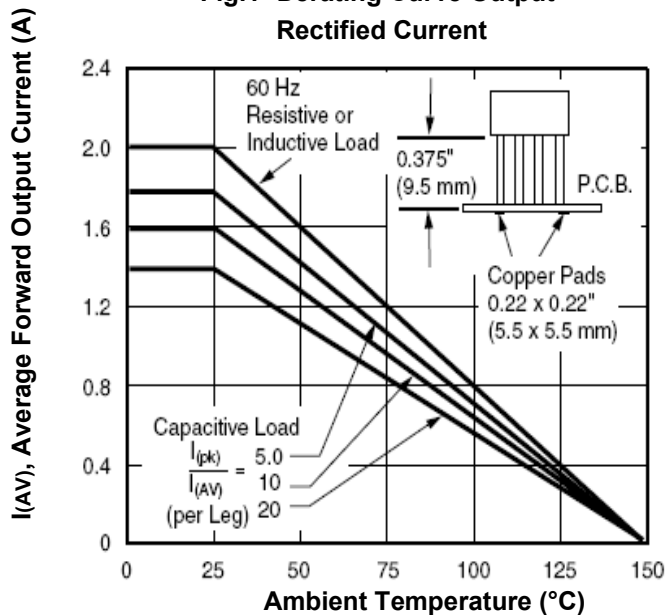
## 2W005G - 2W10G

Symbols	Parameter	2W 005G	2W 01G	2W 02G	2W 04G	2W 06G	2W 08G	2W 10G	Unit	Conditions
<b>V<sub>F</sub></b>	Maximum Instantaneous Forward Voltage Drop per leg	1.1							V	I <sub>F</sub> =2.0A
<b>I<sub>R</sub></b>	Maximum DC Reverse Current at Rated DC Blocking Voltage per leg	5.0							μA	TA=25°C
		500								TA=125°C
<b>C<sub>J</sub></b>	Typical Junction Capacitance per leg	40			20				pF	V <sub>R</sub> =4V, f=1MHz
<b>R<sub>θJA</sub></b>	Typical Thermal Resistance per leg	40							°C/W	Note 1
<b>R<sub>θJL</sub></b>		15								
<b>T<sub>J</sub>, T<sub>STG</sub></b>	Operating Junction and Storage Temperature Range	-55 to 150							°C	

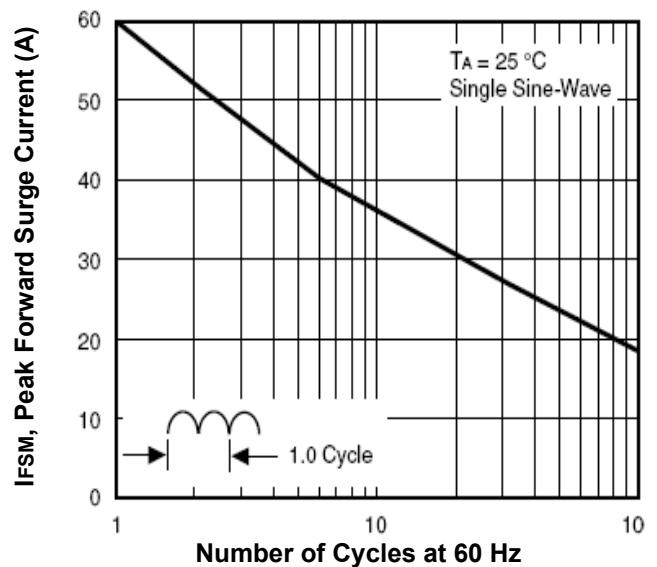
Note: 1. Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5mm) lead length P.C.B. mounting.

### 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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## 2W005G - 2W10G

Fig.3-Typical Forward Characteristics per leg

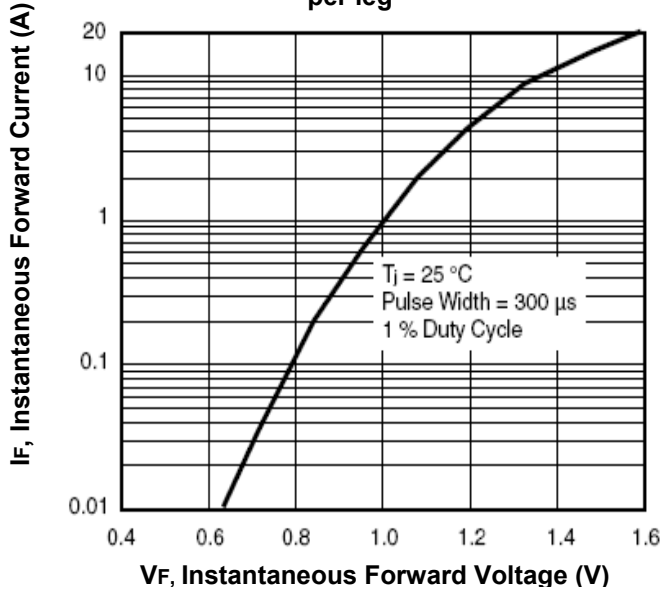


Fig.4-Typical Reverse Leakage Characteristics per leg

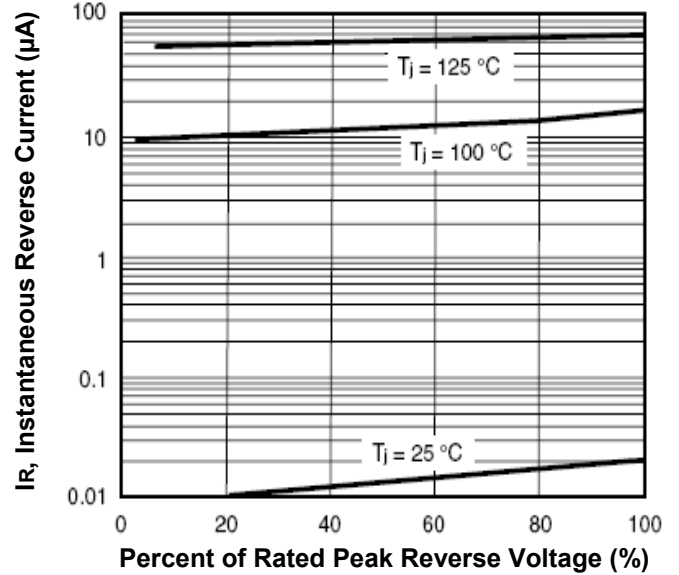
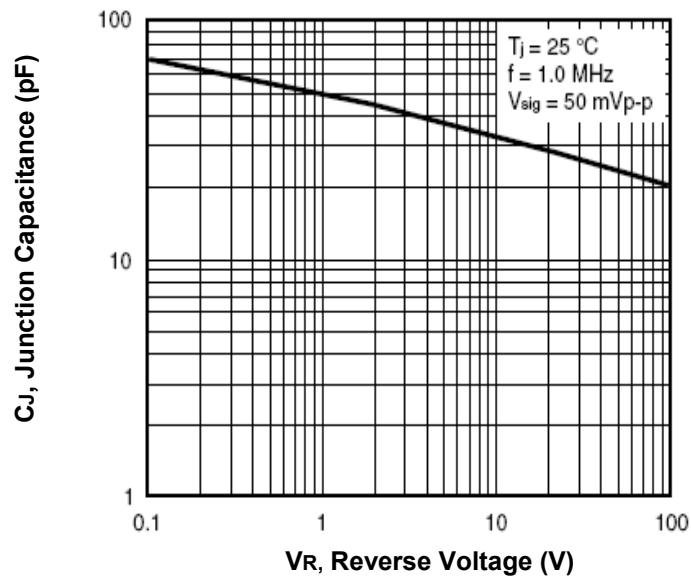


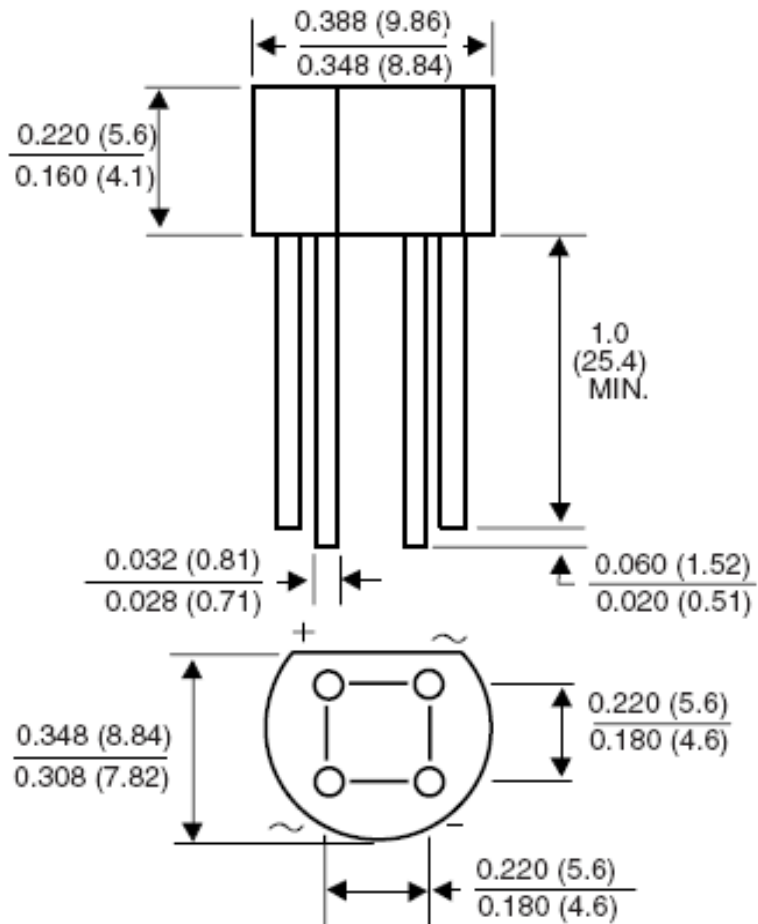
Fig.5-Typical Junction Capacitance per leg



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2W005G - 2W10G

## Dimensions in inch (mm)



## Case Style WOG

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