

# 2W005G - 2W10G

### **Features**

- Glass passivated junction.
- Ideal for printed circuit board.
- Reliable low cost construction technique results in inexpensive product.
- High surge current capability.
- UL certified, UL #E96005.



### **WOB**

# 2.0 Ampere Glass Passivated Bridge Rectifiers

### **Absolute Maximum Ratings\***

T<sub>A</sub> = 25°C unless otherwise noted

Symbol	Parameter	Value	Units		
I <sub>F(AV)</sub>	Average Rectified Current @ T <sub>A</sub> = 50°C	2.0	А		
I <sub>FSM</sub>	Non-repetitive Peak Forward Surge Current 8.3 ms single half-sine-wave Superimposed on rated load (JEDEC method)	60	А		
P <sub>D</sub>	Total Device Dissipation Derate above 25°C	3.13 25	W mW/°C		
R <sub>θJA</sub>	Thermal Resistance, Junction to Ambient,** per leg	40	°C/W		
R <sub>θJL</sub>	Thermal Resistance, Junction to Lead,** per leg	15	°C/W		
T <sub>stg</sub>	Storage Temperature Range	-55 to +150	°C		
TJ	Operating Junction Temperature	-55 to +150	°C		

<sup>\*</sup>These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

### **Electrical Characteristics**

 $T_A = 25$ °C unless otherwise noted

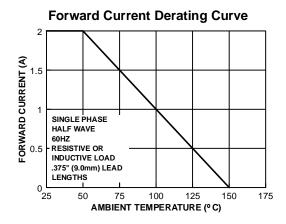
Symbol	l Parameter Devi		)evic	/ice			Units		
		005G	01G	02G	04G	06G	08G	10G	
$V_{RRM}$	Maximum Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V
$V_{RMS}$	Maximum RMS Bridge Input Voltage		70	140	280	420	560	700	V
$V_R$	DC Reverse Voltage (Rated V <sub>R</sub> )	50	100	200	400	600	800	1000	V
I <sub>RM</sub>	Maximum Instantaneous Reverse Leakage Current, per leg @ rated $V_R$ $T_A = 25^{\circ}C$ $T_A = 125^{\circ}C$	5.0 500		μ <b>Α</b> μ <b>Α</b>					
$V_{\text{FM}}$	Maximum Instantaneous Forward Voltage Drop, per bridge @ 2.0 A	1.1		V					
	t rating for fusing t < 8.3 ms 10			A <sup>2</sup> s					
С	Typical Junction Capacitance, per leg $V_R = 4.0 \text{ V}$ , $f = 1.0 \text{ MHz}$	19		pF					

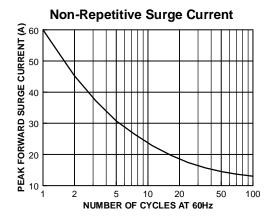
<sup>\*\*</sup>Device mounted on PCB with 0.375" (9.5 mm) lead length.

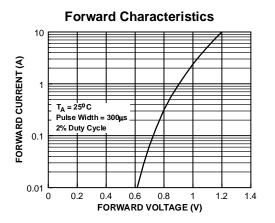
### **Glass Passivated Bridge Rectifiers**

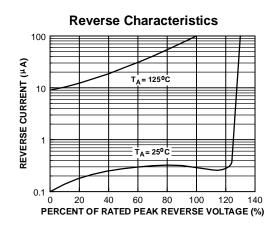
(continued)

### **Typical Characteristics**







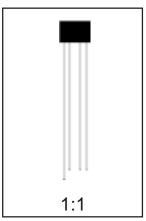


### **WOB Package Dimensions**



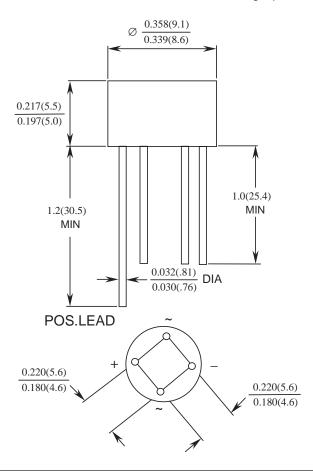
# WOB (FS PKG Code R5)





Scale 1:1 on letter size paper
Dimensions shown below are in:
inches [millimeters]

Part Weight per unit (gram): 1.1



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