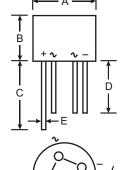


## 1.5A GLASS PASSIVATED BRIDGE RECTIFIER

### **Features**

- Glass Passivated Die Construction
- Diffused Junction
- Low Forward Voltage Drop, High Current Capability
- Surge Overload Rating to 50A Peak
- Ideal for Printed Circuit Boards
- Case to Terminal Isolation Voltage 1500V
- Plastic Material: UL Flammability Classification Rating 94V-0
- **UL Listed Under Recognized Component** Index, File Number E94661



#### WOG Dim Min Max Α 8.84 9.86 В 4.00 4.60 С 27.90 D 25.40 E 0.71 0.81 G 4.60 5.60 All Dimensions in mm

### **Mechanical Data**

- Case: WOG, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Also Available in Lead Free Plating (Matte Tin Finish). Please see Ordering Information, Note 4, on Page 3
- Polarity: As marked on Body
- Weight: 1.3 grams (approx.)
- Mounting Position: Any
- Marking: Type Number

#### **Maximum Ratings and Electrical Characteristics** @ $T_A = 25^{\circ}C$ unless otherwise specified

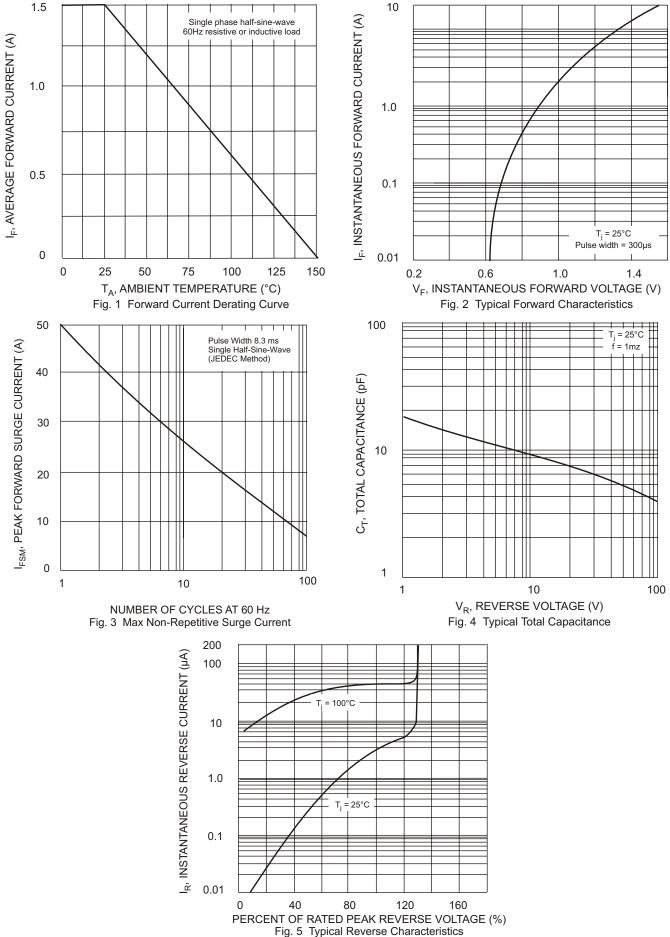
Single phase, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	W005G	W01G	W02G	W04G	W06G	W08G	W10G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @ T <sub>A</sub> = 25°C	I <sub>O</sub>	1.5			Α				
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load per element (JEDEC Method)	I <sub>FSM</sub>				50				А
Forward Voltage (per element) @ I <sub>F</sub> = 1.5A	V <sub>FM</sub>				1.0				V
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	I <sub>RM</sub>				5.0 500				μΑ
Typical Total Capacitance (Note 2)	C <sub>T</sub>	12		pF					
Typical Thermal Resistance Junction to Case (Note 1)	R <sub>θJC</sub>				84				K/W
Operating and Storage Temperature Range	T <sub>j,</sub> T <sub>STG</sub>			-(	65 to +15	0			°C

Notes:

- 1. Thermal resistance from junction to case mounted on PC board with 13 x 13mm (0.03mm thick) land areas.
- 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.







# **Ordering Information** (Note 3)

Device	Packaging	Shipping		
W005G-7	WOG	1K Bulk		
W01G-7	WOG	1K Bulk		
W02G-7	WOG	1K Bulk		
W04G-7	WOG	1K Bulk		
W06G-7	WOG	1K Bulk		
W08G-7	WOG	1K Bulk		
W10G-7	WOG	1K Bulk		

Notes:

- For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.
  For Lead Free version (with Lead Free terminal finish) part number, please add "-F" suffix to part number above. Example: W04G-7-F.