



## 1.5A GLASS PASSIVATED BRIDGE RECTIFIER

### **Features**

Glass Passivated Die Construction

Low Forward Voltage Drop, High Current Capability

Surge Overload Rating to 50A Peak

Ideal for Printed Circuit Boards

Case to Terminal Isolation Voltage 1500V

**UL Listed Under Recognized Component** 

Index, File Number E94661

Lead Free Finish, RoHS Compliant (DC 514+) (Note 3)

# **Mechanical Data**

Case: WOG

Case Material: Molded Plastic. UL Flammability

Classification Rating 94V-0

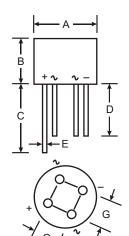
Moisture Sensitivity: Level 1 per J-STD-020C

Terminals: Finish Silver. Plated Leads Solderable per

MIL-STD-202, Method 208
Polarity: As marked on Body

Marking: Type Number

Weight: 1.3 grams (approximate)



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					

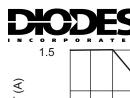
# Maximum Ratings and Electrical Characteristics @ TA = 25 C unless otherwise specified

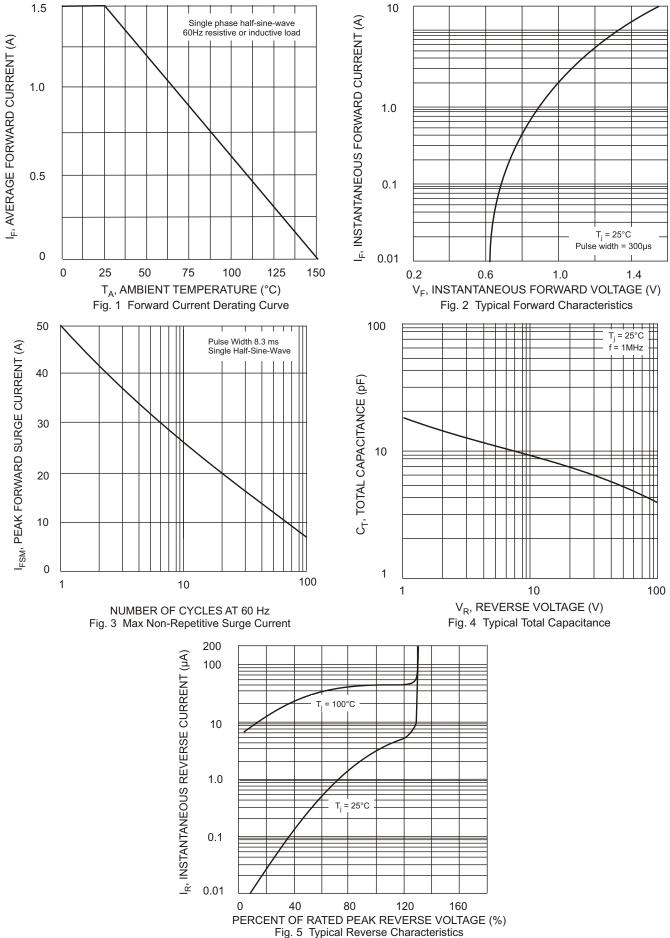
Single phase, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

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		1.5						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load per element		50					А		
Forward Voltage (per element) @ I <sub>F</sub> = 1.5A	V <sub>FM</sub>				1.0				V
Peak Reverse Current @ T <sub>A</sub> = 25 C at Rated DC Blocking Voltage @ T <sub>A</sub> = 125 C		5.0 500					μA		
Typical Total Capacitance (Note 2)	Ст				12				pF
Typical Thermal Resistance Junction to Case (Note 1)		84					C/W		
Operating and Storage Temperature Range		-65 to +150				С			

Notes: 1. Thermal resistance from junction to case mounted on PC board with 13 x 13mm (0.03mm thick) land areas.

- 2. Per element, measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 3. EC Directive 2002/95/EC(RoHS) revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see *EU Directive Annex Notes 5 and 7*.







# Ordering Information (Note 4)

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

Notes: 4. For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

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