

W005G - W10G

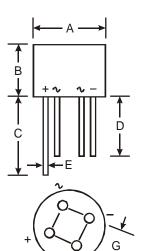
1.5A GLASS PASSIVATED BRIDGE RECTIFIER

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 @3
- 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

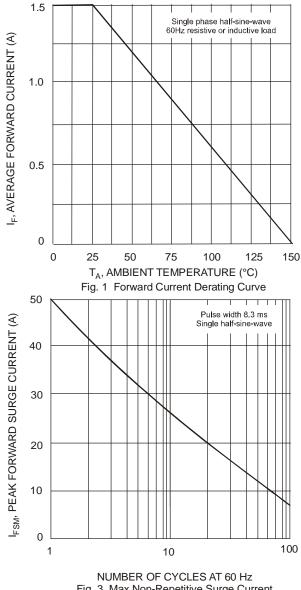
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

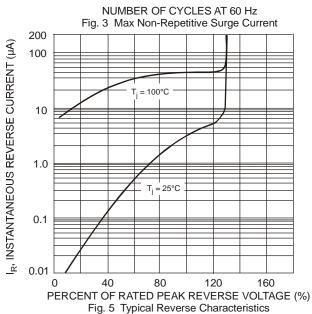
Characteristic		Symbol	W005G	W01G	W02G	W04G	W06G	W08G	W10G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage		$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)	@ T _A = 25°C	lo				1.5				Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated per element	d load	I _{FSM}				50				Α
Forward Voltage (per element)	@ I _F = 1.5A	V_{FM}	1.0					V		
	$T_A = 25^{\circ}C$ $T_A = 125^{\circ}C$	I _{RM}				5.0 500				μΑ
Typical Total Capacitance	(Note 2)	C _T	12					pF		
Typical Thermal Resistance Junction to Case	(Note 1)	$R_{\theta JC}$				84				°C/W
Operating and Storage Temperature Range		T _{j,} T _{STG}			-6	5 to +150)			°C

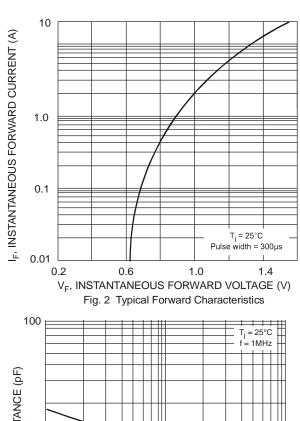
Notes:

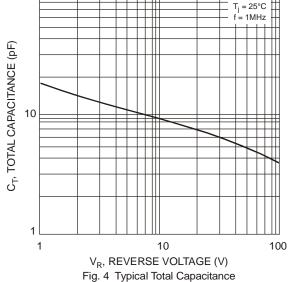
- Thermal resistance from junction to case mounted on PC board with 13 x 13mm (0.03mm thick) land areas.
- Per element, measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- EC Directive 2002/95/EC(RoHS) revision 13.2.2003. Glass and high temperature solder exemptions applied, see EU Directive 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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