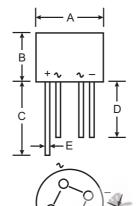


2W005G - 2W10G

2.0A GLASS PASSIVATED BRIDGE RECTIFIER

Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop, High Current Capability
- Surge Overload Rating to 60A 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 (Date Code 0514+) (Note 3)



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

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)

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

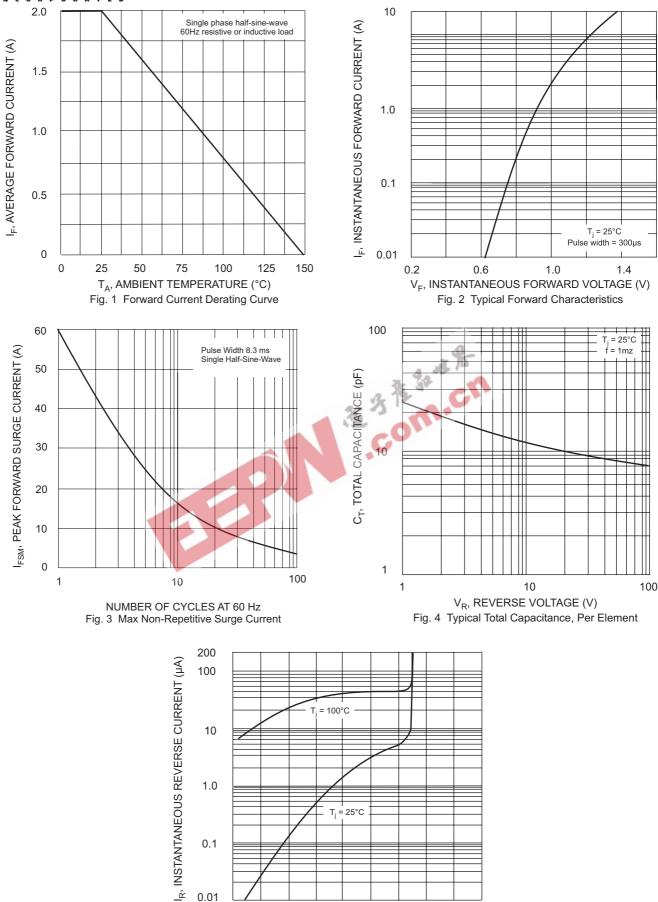
Single phase, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic		Symbol	2W 005G	2W 01G	2W 02G	2W 04G	2W 06G	2W 08G	2W 10G	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	@ T _A = 25°C	I _O	2.0				Α			
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load per element		I _{FSM}	60					А		
Forward Voltage (per element)	@ $I_F = 2.0A$	V _{FM}	1.1				٧			
Peak Reverse Current at Rated DC Blocking Voltage	@ T _A = 25°C @ T _A = 125°C	I _{RM}	5.0 500			μА				
Typical Total Capacitance	(Note 2)	Ст				16				pF
Typical Thermal Resistance Junction to Case		R ₀ JC	40					°C/W		
Operating and Storage Temperature Range		T _j , T _{STG}	-65 to +150				°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.
- 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*.





80

PERCENT OF RATED PEAK REVERSE VOLTAGE (%) Fig. 5 Typical Reverse Characteristics

120

160

40

0.01



Ordering Information (Note 4)

Device	Packaging	Shipping		
2W005G	WOG	1K Bulk		
2W01G	WOG	1K Bulk		
2W02G	WOG	1K Bulk		
2W04G	WOG	1K Bulk		
2W06G	WOG	1K Bulk		
2W08G	WOG	1K Bulk		
2W10G	WOG	1K Bulk		

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

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