

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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W005G, W01G, W02G, W04G, W06G, W08G, W10G

www.vishay.com

Vishay General Semiconductor

Glass Passivated Single-Phase Bridge Rectifier

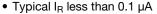


PRIMARY CHARACTERISTICS						
Package	WOG					
I _{F(AV)}	1.5 A					
V _{RRM}	50 V, 100 V, 200 V, 400 V, 600 V, 800 V, 1000 V					
I _{FSM}	50 A					
I _R	5 μΑ					
V _F at I _F = 1.0 A	1.0 V					
T _J max.	150 °C					
Diode variations	Quad					

FEATURES







• High case dielectric strength

• High surge current capability

• Solder dip 275 °C max. 10 s, per JESD 22-B106



Pb

RoHS

TYPICAL APPLICATIONS

General purpose use in AC/DC bridge full wave rectification for power supply, adapter, charger, lighting ballaster on consumers, and home appliances applications.

MECHANICAL DATA

Case: WOG

Molding compound meets UL 94 V-0 flammability rating Base P/N-E4 - RoHS-compliant, commercial grade

Terminals: Silver plated leads, solderable per

J-STD-002 and JESD22-B102 **Polarity:** As marked on body

MAXIMUM RATINGS (T _A = 25 °C unless otherwise noted)									
PARAMETER	SYMBOL	W005G	W01G	W02G	W04G	W06G	W08G	W10G	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current at 0.375" (9.5 mm) lead length at $T_A = 25$ °C	I _{F(AV)}	1.5					Α		
Peak forward surge current single sine-wave superimposed on rated load	I _{FSM}	50				Α			
Rating for fusing (t < 8.3 ms)	I ² t	10				A ² s			
Operating junction and storage temperature range	T _J , T _{STG}	- 55 to + 150				°C			

ELECTRICAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)								
PARAMETER	TEST CONDITIONS	SYMBOL	VALUES	UNIT				
Maximum instantaneous forward voltage per diode	I _F = 1.0 A	V _F	1.0	V				
Maximum DC reverse current at rated	T _A = 25 °C	1	5.0					
DC blocking voltage per diode	T _A = 125 °C	I _R	500	μΑ				
Typical junction capacitance per diode	4.0 V, 1 MHz	CJ	14	pF				

W005G, W01G, W02G, W04G, W06G, W08G, W10G

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THERMAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)									
PARAMETER	SYMBOL W005G W01G W02G W04G W06G W08G W10G UN					UNIT			
Typical thermal resistance (1)	$R_{\theta JA}$	36							°C/W
Typical trieffial resistance (*)	$R_{\theta JL}$	11						•	G/ VV

Note

⁽¹⁾ Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5 mm) lead length PCB mounting. PCB size 0.22" x 0.22" (5.5 mm x 5.5 mm)

ORDERING INFORMATION (Example)							
PREFERRED P/N	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE			
W06G-E4/51	1.12	51	100	Plastic bag			

RATINGS AND CHARACTERISTICS CURVES (T_A = 25 °C unless otherwise noted)

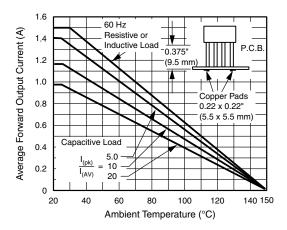


Fig. 1 - Derating Curve Output Rectified Current

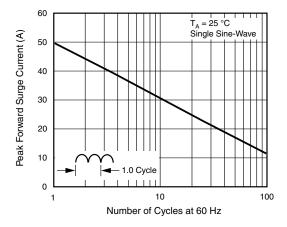


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current Per Diode

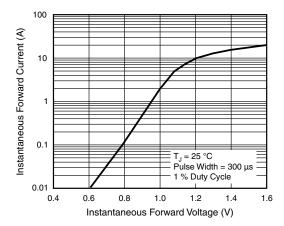


Fig. 3 - Typical Forward Characteristics Per Diode

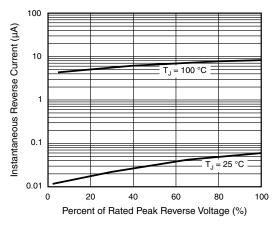


Fig. 4 - Typical Reverse Leakage Characteristics Per Diode





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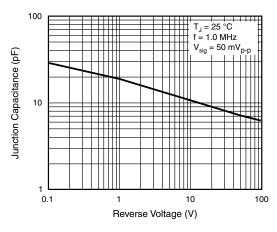


Fig. 5 - Typical Junction Capacitance Per Diode

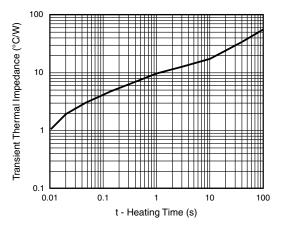
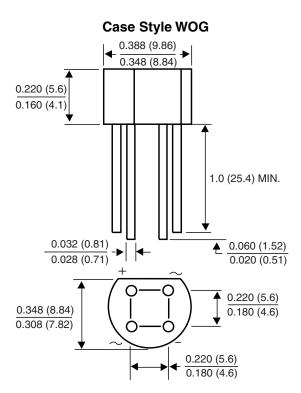


Fig. 6 - Typical Transient Thermal Impedance

PACKAGE OUTLINE DIMENSIONS in inches (millimeters)





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