

W005G - W10G

Features

- Surge overload rating: 50 amperes peak.
- Glass passivated junction.
- Ideal for printed circuit board.
- Reliable low cost construction technique results in inexpensive product.
- UL certified, UL #E96005.



1.5 Ampere Glass Passivated Bridge Rectifiers

Absolute Maximum Ratings*

T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units	
I _{F(AV)}	Average Rectified Current @ T _A = 50°C	1.5	А	
I _{FSM}	Non-repetitive Peak Forward Surge Current 8.3 ms single half-sine-wave Superimposed on rated load (JEDEC method)	50	А	
P _D	Total Device Dissipation	3.47	W	
	Derate above 25°C	28	mW/°C	
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient,** per leg	36	°C/W	
$R_{\theta JL}$	Thermal Resistance, Junction to Lead,** per leg	11	°C/W	
T _{stg}	Storage Temperature Range	-55 to +150	°C	
TJ	Operating Junction Temperature	-55 to +150	°C	

^{*}These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

Electrical Characteristics T_A = 25°C unless otherwise noted

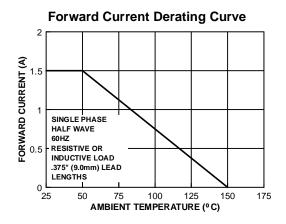
Symbol	Parameter	Device		Units					
		005G	01G	02G	04G	06G	08G	10G	
V_{RRM}	Maximum Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V
V _{RMS}	Maximum RMS Bridge Input Voltage	35	70	140	280	420	560	700	V
V _R	DC Reverse Voltage (Rated V _R)	50	100	200	400	600	800	1000	V
I _{RM}				μ Α μ Α					
V_{FM}	Maximum Instantaneous Forward Voltage Drop, per bridge @ 1.0 A	1.0		V					
	I ² t rating for fusing t < 8.3 ms	10		A ² s					
С	Typical Junction Capacitance, per leg $V_R = 4.0 \text{ V}, f = 1.0 \text{ MHz}$			pF					

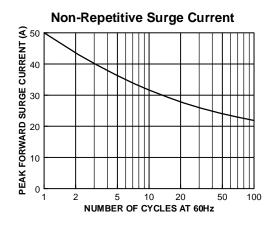
^{**}Device mounted on PCB with 0.375" (9.5 mm) lead length.

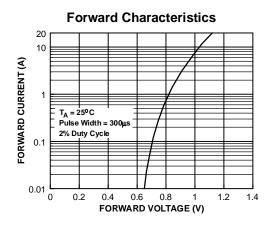
Glass Passivated Bridge Rectifiers

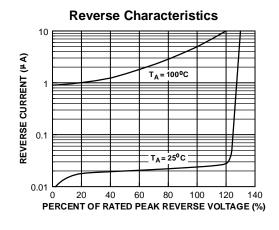
(continued)

Typical Characteristics







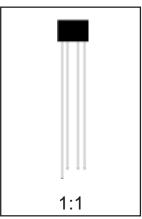


WOB Package Dimensions



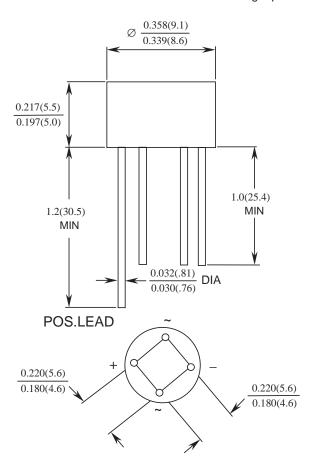
WOB (FS PKG Code R5)





Scale 1:1 on letter size paper
Dimensions shown below are in:
inches [millimeters]

Part Weight per unit (gram): 1.1



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Contact Us:

> Address:

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd Minhang District, Shanghai , China

> Sales:

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

Customer Service :

Email service@ameya360.com

Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com