

2W005G - 2W10G

Features

- Glass passivated junction.
- Ideal for printed circuit board.
- Reliable low cost construction technique results in inexpensive product.
- High surge current capability.
- UL certified, UL #E96005.



WOB

Bridge Rectifiers (Glass Passivated)

Absolute Maximum Ratings* T_A = 25°C unless otherwise noted

Symbol	Parameter	Value						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 _{F(AV)}	Average Rectified Forward Current, @ T _A = 50°C	2.0		Α					
I _{FSM}	Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	60		А					
T _{stg}	Storage Temperature Range	-55 to +150		°C					
T _J	Operating Junction Temperature	-55 to +150		°C					

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

Thermal Characteristics

Symbol	Parameter	Value	Units
P _D	Power Dissipation	3.13	W
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient,* per leg	40	°C/W
$R_{\theta JL}$	Thermal Resistance, Junction to Lead,* per leg	15	°C/W

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

Electrical Characteristics T_A = 25°C unless otherwise noted

Symbol	Parameter	Device	Units
V _F	Forward Voltage, per bridge @ 2.0 A	1.1	V
I _R	Reverse Current, per leg @ rated V_R $T_A = 25^{\circ}C$ $T_A = 125^{\circ}C$	5.0 500	μA μA
	I ² t rating for fusing t < 8.3 ms	10	A ² s
Ст	Total Capacitance, per leg V _R = 4.0 V, f = 1.0 MHz	19	pF

Bridge Rectifiers (Glass Passivated)

(continued)

Typical Characteristics

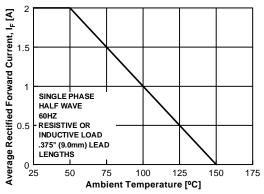


Figure 1. Forward Current Derating Curve

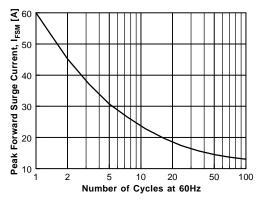


Figure 2. Non-Repetitive Surge Current

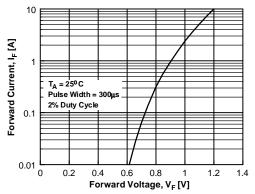


Figure 3. Forward Voltage Characteristics

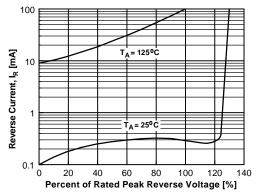


Figure 4. Reverse Current vs Reverse Voltage

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