

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.



WOF

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		1.5					А	
I _{FSM}	Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave		50					Α	
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	3.47	W
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient,* per leg	36	°C/W
$R_{\theta JL}$	Thermal Resistance, Junction to Lead,* per leg	11	°C/W

 $[\]ensuremath{^{\star}}\xspace$ 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 @ 1.0 A	1.0	V
I _R	Reverse Current, total bridge @ rated V_R $T_A = 25^{\circ}C$ $T_A = 125^{\circ}C$	5.0 500	μ Α μ Α
	I ² t rating for fusing t < 8.3 ms	10	A ² s
C _T	Total Capacitance, per leg V _R = 4.0 V, f = 1.0 MHz	15	pF

Bridge Rectifiers (Glass Passivated)

(continued)

Typical Characteristics

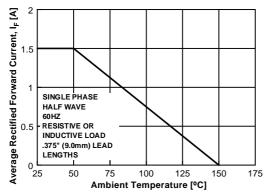


Figure 1. Forward Current Derating Curve

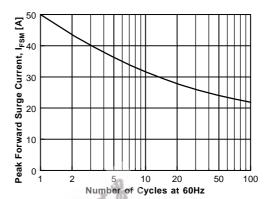


Figure 2. Non-Repetitive Surge Current

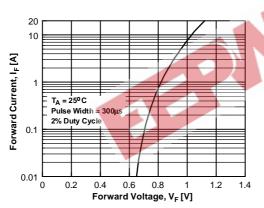


Figure 3. Forward Voltage Characteristics

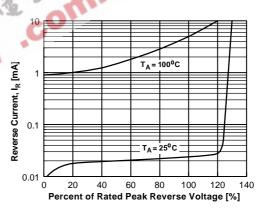


Figure 4. Reverse Current vs Reverse Voltage

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