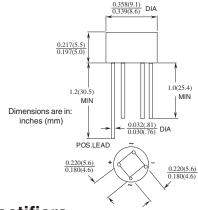


W005G - W10G

Features

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





1.5 Ampere Glass Passivated Bridge Rectifiers

Absolute Maximum Ratings*

T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units	
Io	Average Rectified Current @ T _A = 50°C	1.5	А	
İ _f (surge)	Peak Forward Surge Current 8.3 ms single half-sine-wave Superimposed on rated load (JEDEC method)	50	А	
P _D	Total Device Dissipation Derate above 25°C	3.47 28	W mW/°C	
R _{JA}	Thermal Resistance, Junction to Ambient,** per leg	36	°C/W	
R _{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

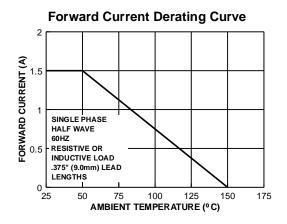
Parameter		Device						Units	
		005G	01G	02G	04G	06G	08G	10G	
Peak Repetitive Reverse Voltage		50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage		35	70	140	280	420	560	700	V
DC Reverse Voltage	(Rated V _R)	50	100	200	400	600	800	1000	V
Maximum Reverse Leak		l.				l.			
total bridge @ rated V _R	T _A = 25°C				5.0				Α
•	T _A = 125°C				500				Α
Maximum Forward Voltage Drop,									
per bridge @ 1.0 A		1.0						V	
I ² t rating for fusing t < 8.3 ms		10						A ² Sec	
Typical Junction Capacitance, per leg $V_R = 4.0 \text{ V}$, f = 1.0 MHz					15				pF

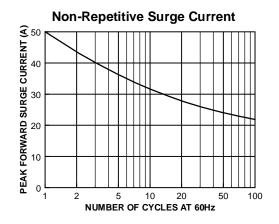
^{**}Device mounted on PCB with 0.375" (9.5 mm) lead length.

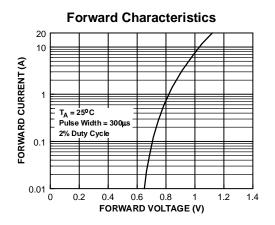
Glass Passivated Bridge Rectifiers

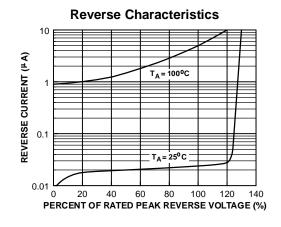
(continued)

Typical Characteristics









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FACT Quiet Series $^{\text{TM}}$ Quiet Series $^{\text{TM}}$ SuperSOT $^{\text{TM}}$ -3 SuperSOT $^{\text{TM}}$ -6 GTO $^{\text{TM}}$ SuperSOT $^{\text{TM}}$ -8 HiSeC $^{\text{TM}}$ TinyLogic $^{\text{TM}}$

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