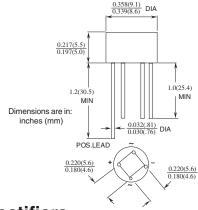


## W005G - W10G

### **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<sub>A</sub> = 25°C unless otherwise noted

Symbol	Parameter	Value	Units	
I <sub>O</sub>	Average Rectified Current  @ T <sub>A</sub> = 50°C	1.5	А	
İ <sub>f(surge)</sub>	Peak Forward Surge Current 8.3 ms single half-sine-wave Superimposed on rated load (JEDEC method)	50	А	
P <sub>D</sub>	Total Device Dissipation Derate above 25°C	3.47 28	W mW/°C	
R <sub>JA</sub>	Thermal Resistance, Junction to Ambient,** per leg	36	°C/W	
R <sub>JL</sub>	Thermal Resistance, Junction to Lead,** per leg	11	°C/W	
T <sub>stg</sub>	Storage Temperature Range	-55 to +150	°C	
TJ	Operating Junction Temperature	-55 to +150	°C	

<sup>\*</sup>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

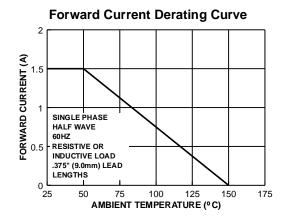
Parameter		Device						Units	
		005G	01G	02G	04G	06G	08G	10G	
Peak Repetitive Reverse Voltage		50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage		35	70	140	280	420	560	700	V
DC Reverse Voltage	(Rated V <sub>R</sub> )	50	100	200	400	600	800	1000	V
Maximum Reverse Leak									
total bridge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

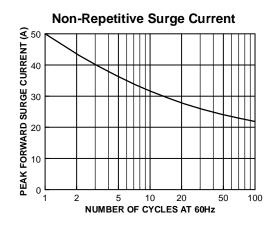
<sup>\*\*</sup>Device mounted on PCB with 0.375" (9.5 mm) lead length.

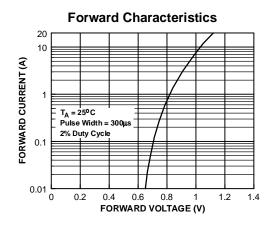
### **Glass Passivated Bridge Rectifiers**

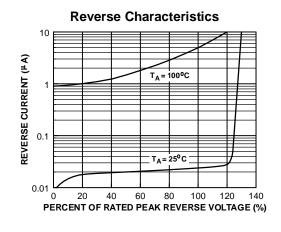
(continued)

### **Typical Characteristics**









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