

Symbol	Parameter	Value	Units A A W mW/°C	
lo	Average Rectified Current @ $T_A = 50^{\circ}C$	2.0		
İ <sub>f(surge)</sub>	Peak Forward Surge Current 8.3 ms single half-sine-wave Superimposed on rated load (JEDEC method)	60		
P <sub>D</sub>	Total Device Dissipation Derate above 25°C	3.13 25		
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient,** per leg	40	°C/W	
$R_{\theta JL}$	Thermal Resistance, Junction to Lead,** per leg	15	°C/W	
T <sub>stg</sub> T <sub>J</sub>	Storage Temperature Range	-55 to +150	°C	
TJ	Operating Junction Temperature	-55 to +150	°C	

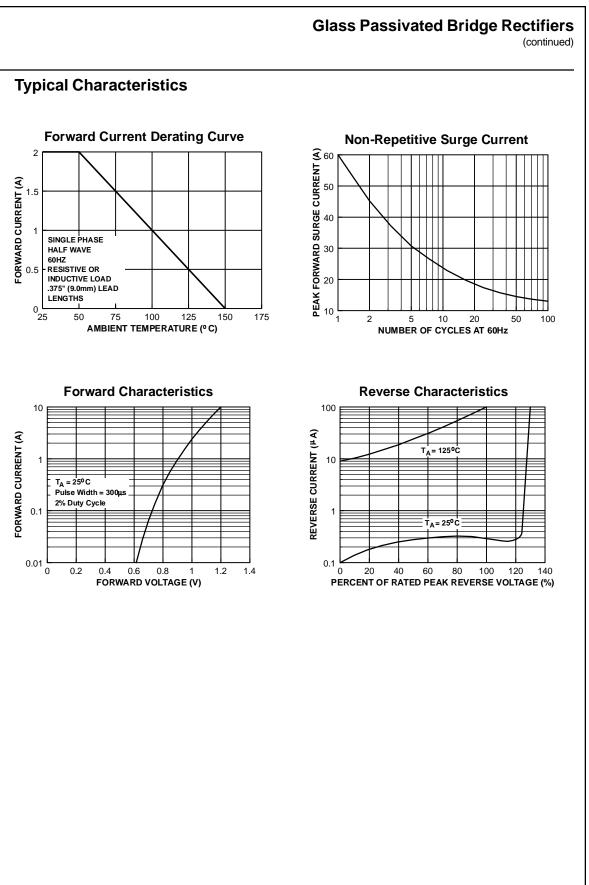
## Absolute Maximum Ratings\* T<sub>A</sub> = 25°C unless otherwise noted

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

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

# Electrical Characteristics T<sub>A</sub> = 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 Leakage Current, per leg @ rated $V_R$ $T_A = 25^{\circ}C$ $T_A = 125^{\circ}C$	5.0 500							μΑ μΑ
Maximum Forward Voltage Drop, per bridge @ 2.0 A	1.1							V
$I^2$ t rating for fusing t < 8.3 ms	10							A <sup>2</sup> Sec
Typical Junction Capacitance, per leg $V_R = 4.0 V$ , f = 1.0 MHz	19						pF	



2W005G - 2W10G

2W005G -2 W10G, Rev. A

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