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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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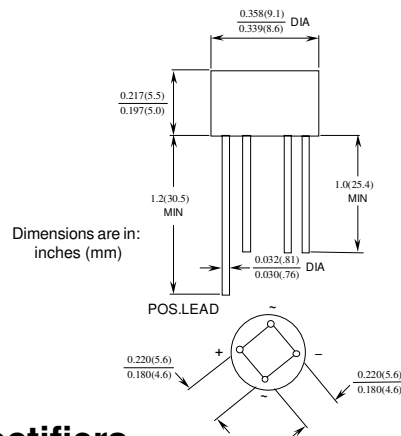
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



## 2W005G - 2W10G

### Features

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



## 2.0 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	2.0	A
i <sub>I(surge)</sub>	Peak Forward Surge Current 8.3 ms single half-sine-wave Superimposed on rated load (JEDEC method)	60	A
P <sub>D</sub>	Total Device Dissipation Derate above 25°C	3.13 25	W mW/°C
R <sub>θJA</sub>	Thermal Resistance, Junction to Ambient,** per leg	40	°C/W
R <sub>θJL</sub>	Thermal Resistance, Junction to Lead,** per leg	15	°C/W
T <sub>stg</sub>	Storage Temperature Range	-55 to +150	°C
T <sub>J</sub>	Operating Junction Temperature	-55 to +150	°C

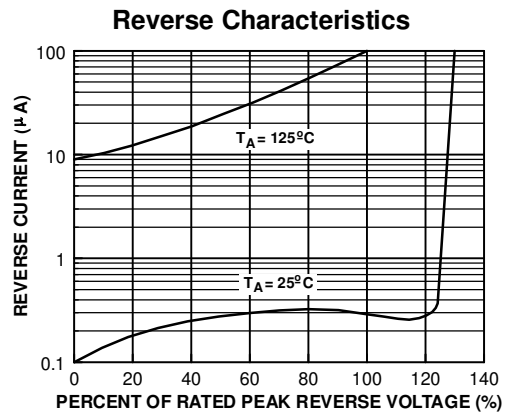
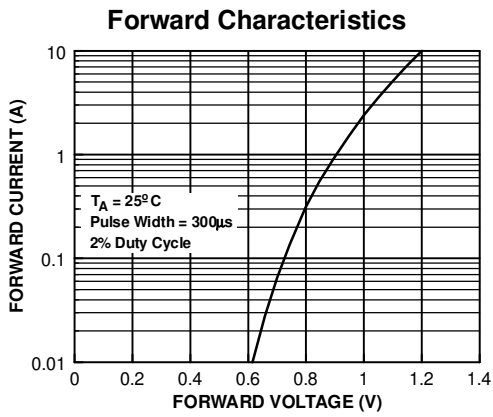
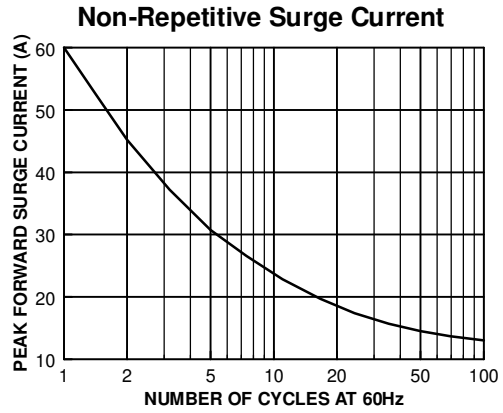
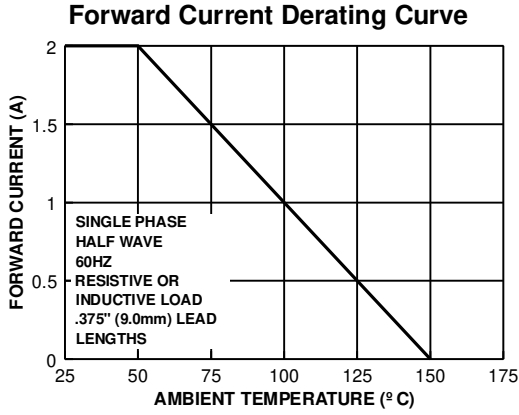
\*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

\*\*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 <sub>R</sub> T <sub>A</sub> = 25°C	5.0							μA
T <sub>A</sub> = 125°C	500							μA
Maximum Forward Voltage Drop, per bridge @ 2.0 A	1.1							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 <sub>R</sub> = 4.0 V, f = 1.0 MHz	19							pF

Typical Characteristics



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No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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