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Fairchild Semiconductor 2W02G

For any questions, you can email us directly: sales@integrated-circuit.com





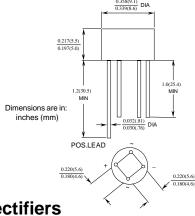
Discrete POWER & Signal Technologies

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* $T_A = 25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Value	Units	
Io	Average Rectified Current	2.0	А	
	@ T _A = 50°C			
İ _{f(surge)}	Peak Forward Surge Current			
	8.3 ms single half-sine-wave	60	Α	
	Superimposed on rated load (JEDEC method)			
P_D	Total Device Dissipation	3.13	W	
	Derate above 25°C	25	mW/°C	
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient,** per leg	40	°C/W	
R _{θJL}	Thermal Resistance, Junction to Lead,** per leg	15	°C/W	
T _{stg}	Storage Temperature Range	-55 to +150	°C	
TJ	Operating Junction Temperature	-55 to +150	°C	

 $^{^{\}star}$ 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	1
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 Leakage Current, per leg @ rated V_R $T_A = 25$ °C $T_A = 125$ °C	5.0 500						μΑ μΑ	
Maximum Forward Voltage Drop, per bridge @ 2.0 A I ² t rating for fusing t < 8.3 ms	1.1 10						V A ² Sec	
Typical Junction Capacitance, per leg V _R = 4.0 V, f = 1.0 MHz	19					pF		

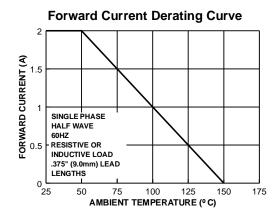
^{**}Device mounted on PCB with 0.375" (9.5 mm) lead length.

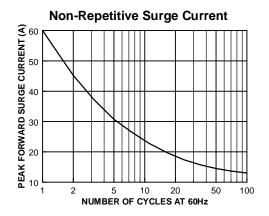


Glass Passivated Bridge Rectifiers

(continued)

Typical Characteristics





Forward Characteristics 10 T_A = 25°C Pulse Width = 300µs 2% Duty Cycle 2% Duty Cycle

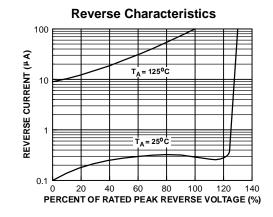
0.6

0.8

FORWARD VOLTAGE (V)

0.2

0.4





Distributor of Fairchild Semiconductor: Excellent Integrated System Limited Datasheet of 2W02G - DIODE BRIDGE GPP 2.0A 200V WOB

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Advance Information	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.				
Preliminary	First Production	This datasheet contains preliminary data, and supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.				
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