New Jersey Semi-Conductor Products, Inc.

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2W005G - 2W10G

2.0A GLASS PASSIVATED BRIDGE RECTIFIER

Features

- Glass Passivated Die Construction
- Diffused Junction
- Low Forward Voltage Drop, High Current Capability
- Surge Overload Rating to 60A Peak
- Ideal for Printed Circuit Boards
- Case to Terminal Isolation Voltage 1500V
- Plastic Material: UL Flammability Classification Rating 94V-0
- UL Listed Under Recognized Component Index, File Number E94661

Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As marked on Body
- Weight: 1.3 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



WOG								
Dim	Min	Max						
Α	8.84	9.86						
В	4.00	4.60						
С	27.90	_						
D	25.40	—						
E	0.71	0.81						
G	4.60	5.60						
All Dimensions in mm								

Maximum Ratings and Electrical Characteristics @ TA = 25°C unless otherwise specified

Single phase, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic		2W 005G	2W 01G	2W 02G	2W 04G	2W 06G	2W 08G	2W 10G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	800	1000	v
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output Current $@ T_A = 25^{\circ}C$	lo	2.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load per element (JEDEC Method)		60							A
Forward Voltage (per element) @ I _F = 2.0A	VFM	1.1						V	
Peak Reverse Current $@ T_A = 25^{\circ}C$ at Rated DC Blocking Voltage $@ T_A = 125^{\circ}C$	IRM	5.0 500					μΑ		
Typical Junction Capacitance (Note 2)	Cj	16							pF
Typical Thermal Resistance Junction to Case		40 °C							°C/W
Operating and Storage Temperature Range		-65 to +150							°C

Notes: 1. Thermal resistance from junction to case mounted on PC board with 13 x 13mm (0.03mm thick) land areas. 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

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