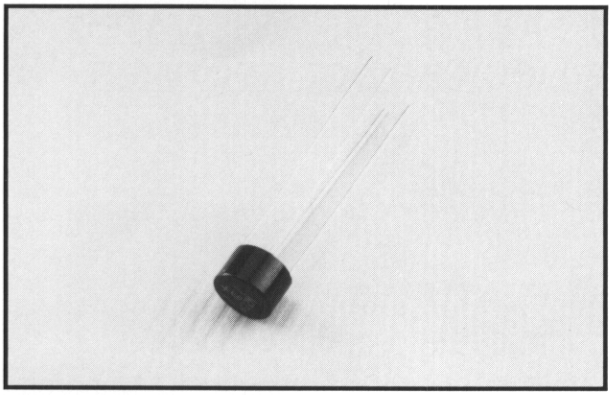
W005G Thru W10G

1.5 AMP GLASS PASSIVATED BRIDGE RECTIFIER



FEATURES

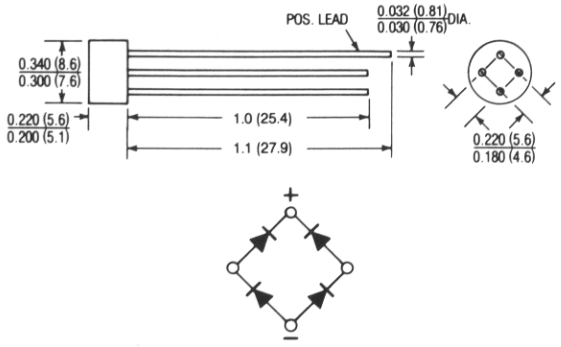
- Rating to 1000V PRV
- Surge overload rating to 50 Amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- UL recognized: File #E106441
- UL recognized 94V-O plastic material

Mechanical Data

- Case: Molded plastic
- Weight: 0.05 ounce, 1.3 grams
- Mounting Position: Any

Outline Drawing

W-G



Dimensions in inches and (millimeters)

Maximum Ratings & Characteristics

- Ratings at 25° C ambient temperature unless otherwise specified
- Single phase, half wave, 60Hz, resistive or inductive load
- For capacitive load, derate current by 20%

		W005G	W01G	W02G	W04G	W06G	W08G	W10G	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	60	100	200	400	600	800	1000	V
Maximum Average Forward @ T_A = 25°C Output Current	$I_{(AV)}$	1.5							A
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load	I_{FSM}	50							A
Maximum DC Forward Voltage Drop per Element At 1.0A DC	V_F	1							V
Maximum DC Reverse Current At Rated@ T_A = 25°C DC Blocking Voltage per Element @ T_A = 100°C	I_R	5 500							µA
Typical Junction Capacitance Per Element *	C_J	12							pF
Typical Thermal Resistance **	$R_{(TH\ J-A)}$	40							°C/W
Operating Temperature Range	T_J	-40to +150							°C
Storage Temperature Range	T_{STG}	-40 to +150							°C

Notes: * Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

** Thermal resistance junction to ambient at .375" (9.55mm) lead length, PC board mounted