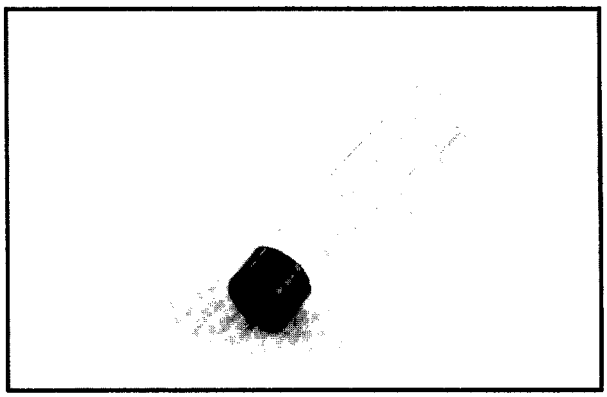
1.5 AMP CONTROLLED AVALANCHE SILICON BRIDGE RECTIFIER



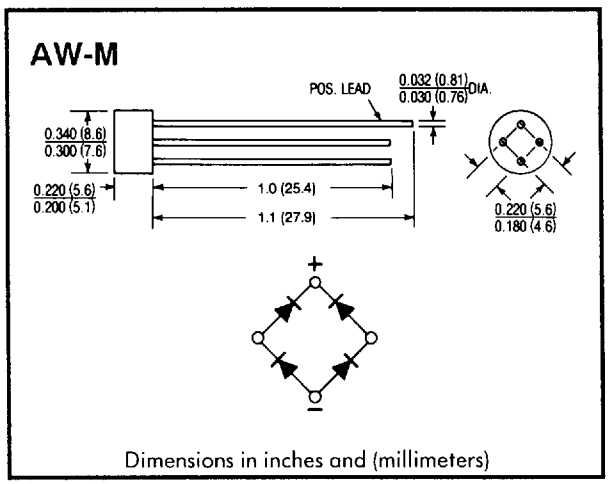
FEATURES

- Controlled avalanche series with 250V, 450V, 650V and 850V minimum avalanche ratings
- Surge overload rating to 50A peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique resulting in inexpensive product
- UL recognized: File #E106441

Mechanical Data

- Case: Molded plastic
- Leads: Silver plated copper
- Leads solderable per MIL-STD-202, Method 208
- Mounting Position: Any
- Weight: 0.05 ounce, 1.4 grams

Outline Drawing



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%

		AW02M	AW04M	AW06M	AW08M	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	400	600	800	V
Maximum RMS Input Voltage	V_{RMS}	140	280	420	560	V
Maximum DC Blocking Voltage		200	400	600	800	V
Minimum Avalanche Breakdown Voltage at 100μA	$V_{(BR)}$	250	450	650	850	V
Maximum Avalanche Breakdown Voltage at 100μA	$V_{(BR)}$	700	900	1100	1300	V
Maximum Average Forward Output Current .375" 9.5mm lead length @ T_A = 25°C	$I_{(AV)}$	1.5				A
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load	I_{FSM}	50				A
I^2t Rating for fusing (t < 8.3ms)	I^2t	5.0				A^2t
Maximum Instantaneous Forward Voltage Drop per Bridge element At 1.0A	V_F	1.0				V
Maximum Reverse Current At Rated @ T_A = 25°C	I_R	10				μA
DC Blocking Voltage per Bridge Element @ T_A = 100°C		1.0				mA
Typical junction capacitance (see Note)		24.0				pF
Operating Temperature Range	T_J	-55 to +125				°C
Storage Temperature Range	T_{STG}	-55 to +150				°C

Note: Measured at 1.0 MHZ and applied reverse voltage of 4.0V

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