AW02M Thru AW08M

1.5 AMP CONTROLLED AVALANCHE SILICON BRIDGE RECTIFIER

FEATURES

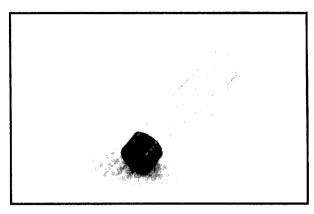
- Controlled avalanche series with 250V, 450V, 650V and 850V minimum avalanche ratings
- Surge overload rating to 50A peak
- · Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique resulting in inexpensive product
- UL recognized: File #E106441



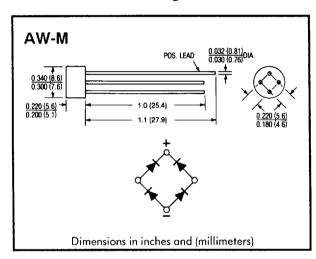
- · Case: Molded plastic
- · Leads: Silver plated copper
- Leads solderable per MIL-STD-202, Method 208
- Mounting Position: Any
- Weight: 0.05 ounce, 1.4 grams

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%



Outline Drawing



		AW02M	AW04M	AW06M	M80WA	Units
Maximum Recurrent Peak Reverse Voltage	VRRM	200	400	600	800	V
Maximum RMS Input Voltage	VRMS	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	I (AV)	1.5			Α	
.375" 9.5mm lead length @ T _A = 25°C	· (AV)					
Peak Forward Surge Current		50			A	
8.3 ms Single Half-Sine-Wave	IFSM					
Superimposed On Rated Load						
l ² t Rating for fusing (t < 8.3ms)	l ² t	5.0			A ² t	
Maximum Instantaneous Forward Voltage Drop per	VF	1.0				V
Bridge element At 1.0A						
Maximum Reverse Current At Rated @ T _A = 25°C	l _R	10				μΑ
DC Blocking Voltage per Bridge Element @ TA = 100°C	ın l	1.0				mA
Typical junction capacitance (see Note)		24.0				pF
Operating Temperature Range	TJ		-55 to +125			
Storage Temperature Range	Tstg	-55 to +150				°C

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