Silicon Miniature Single-Phase Bridge



AM 100/150 Thru AM1010/1510

Voltage: 50 - 1000 Volts **Current: 1.0 - 1.5 Amp**

Features

Ratings to 1000VPRV Surge overloadrating - 30/50 amperes peak Ideal for printed circuit board Reliable construction utilizing molded plastic Mounting position: Any

Mechanical Data

Case: Reliable low cost construction utilizing molded plastic technique results in inexpensive product

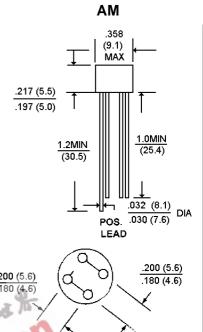
Terminals: Lead solderable per MIL-STD-202,

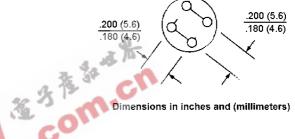
Method 208

Polarity: Polarity symbols marking on body

Weight: 0.05 ounce, 1.3 grams

Available with 0.50 inch leads (P/N add suffix "S")





Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL 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%.		AM100 AM150	AM101 AM151	AM102 AM152	AM104 AM154	AM106 AM156	AM108 AM158	AM1010 AM1510	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	V
Maximum RMS Bridge input Voltage		35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		50	100	200	400	600	800	1000	V
AM100 Maximum Average Forward Rectified AM100					1.0				Α
Current at T _A = 50°C	AM150	1.5						A	
Peak Forward Surge Current, 8.3ms single half	AM100	30						Α	
sine-wave superimposed on rated load	AM150	50						A	
Maximum Forward Voltage Drop per Bridge Element at 1.0A		1.0							V
DC									
Maximum Reverse Current at Rated T _A = 25°C		10.0							uA
DC Blocking Voltage per element T _A = 100°C			1.0						
I ² t Rating for fusing (t< 8.35ms)		10							A^2S
Typical Junction capacitance per leg (Note 1) CJ			24						
Typical Thermal resistance per leg (Note 2) R JA			36						
Typical Thermal resistance per leg (Note 2) R JL			13						
Operating Temperature Range T _J		-55 to +125							°C
Storage Temperature Range T _A			-55 to +150						

NOTES:

- 1. Measured at 1 MHz and applied reverse voltage of 4.0 Volts
- 2. Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.47x 0.47"(12 x 12mm) copper pads

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Rating and Characteristic Curves (AM100/150 T HRU AM1010/1510)

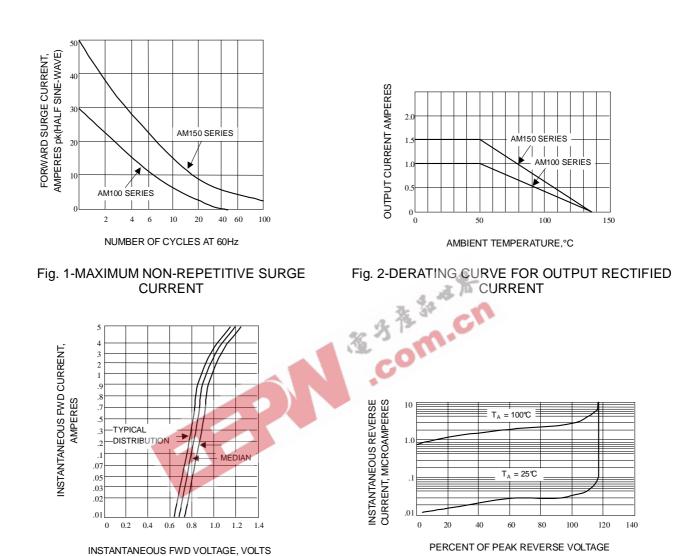


Fig. 3-TYPICAL FORWARD CHARACTERISTICS(25 °C)

Fig. 4-TYPICAL REVERSE CHARACTERISTICS

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