



3.DATASHEET

AM150~AM1510

1.0 AMPERE SILICON MINIATURE SINGLE-PHASE BRIDGES VOLTAGE - 50 to 1000 Volts CURRENT - 1.5 Amperes

 Recognized File # E111753

FEATURES

- Ratings to 1000V PRV
- Surge overload rating: 50 Amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Mounting position: Any

MECHANICAL DATA

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

Terminals: Leads 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")

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

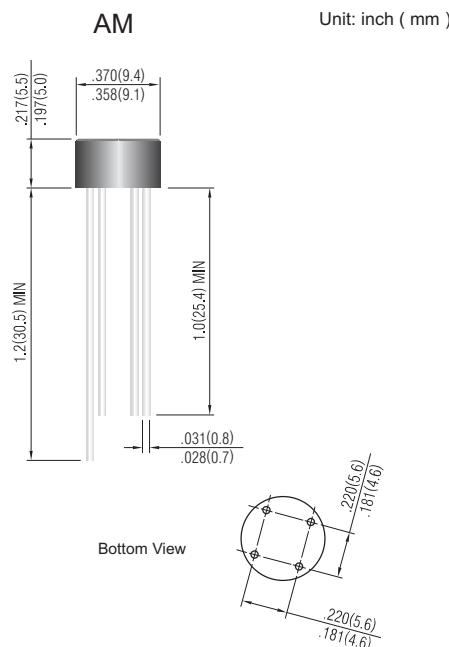
Rating at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.

For Capacitive load derate current by 20%.

	AM150	AM151	AM152	AM154	AM156	AM158	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
Maximum Average Forward Current $T_A=50^\circ C$				1.5				A
Peak Forward Surge Current, 8.3ms singlehalf sine-wave superimposed on rated load					50.0			A
I^2t Rating for fusing ($t < 8.35$ ms)				10.0				$A^2 t$
Maximum Forward Voltage Drop per Bridge Element at 1.0A				1.0				V
Maximum Reverse Current at Rated $T_J= 25^\circ C$ DC Blocking Voltage per element $T_J=125^\circ C$				10.0	1.0			μA mA
Typical Junction capacitance per leg (Note 1) C_J				24.0				pF
Typical Thermal resistance per leg (Note 2) $R_{\theta JA}$				36.0				$^\circ C/W$
Typical Thermal resistance per leg (Note 2) $R_{\theta JA}$				13.0				
Operating Temperature Range T_J				-55 to +125				$^\circ C$
Storage Temperature Range T_A				-55 to +150				$^\circ C$

NOTES:

- Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.
- Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.47×0.47 "(12 X 12mm) copper pads.





RATING AND CHARACTERISTIC CURVES

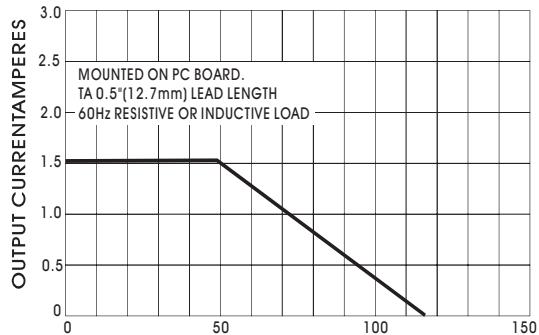
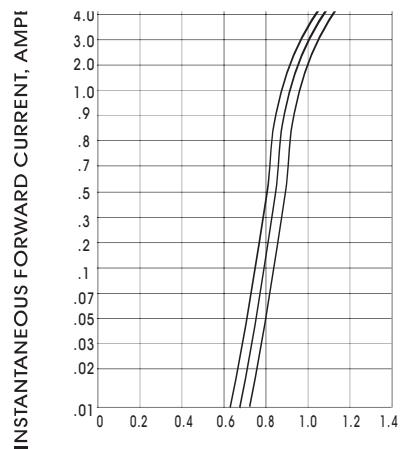


Fig. 1- DERATING CURVE FOR OUTPUT RECTIFIED CURRENT



INSTANTANEOUS FORWARD VOLTAGE, VOLTS
Fig. 2- TYPICAL INSTANTANEOUS FORWARD
CHARACTERISTICS (25°C)

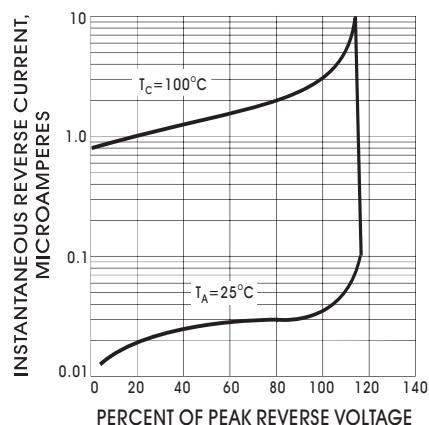


Fig. 3- TYPICAL REAK REVERSE CHARACTERISTICS

