

# DATA SHEET

## AM100~AM1010

## 1.0 AMPERE SILICON MINIATURE SINGLE- PHASE BRIDGES

VOLTAGE - 50 to 1000 Volts CURRENT - 1.0 Amperes

## Recongnized File # E111753

## FEATURES

- Ratings to 1000V PRV
- Surge overload rating: 30 Amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Mounting position: Any

### MECHANICALDATA

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°Cambient temperature unless otherwise specified. Resistive or inductive load, 60Hz. For Capacitive load derate current by 20%.

	AM100	AM101	AM102	AM104	AM106	AM108	AM1010	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 <sub>A</sub> =50°C	1.0							А
Peak Forward Surge Current, 8.3ms singlehalf sine-wave superimposed on rated load	30.0							A
$I^{2}t$ Rating for fusing (t < 8.35 ms)	10.0							A <sup>2</sup> t
Maximum Forward Voltage Drop per Bridge Element at 1.0A	1.0							V
Maximum Reverse Current at Rated T <sub>J</sub> = 25°C	10.0							μA
DC Blocking Voltage per element T <sub>J</sub> =125°C	1.0						mA	
Typical Junction capacitance per leg (Note 1) CJ	24.0							pF
Typical Thermal resistance per leg (Note 2) R0JA	36.0							
Typical Thermal resistance per leg (Note 2) $R\theta JA$	13.0							°C/W
Operating Temperature Range T <sub>J</sub>	-55 to +125							°C
Storage Temperature Range T <sub>A</sub>	-55 to +150							°C

#### NOTES:

1. Measured at 1.0 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 0.47 X 0.47"(12 X 12mm) copper pads.

Unit: inch (mm)

AM

.370(9.4)

2(30.5) MIN

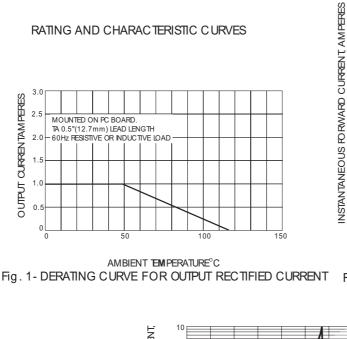
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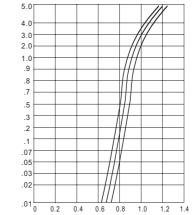
0(25.4) MIN

.031(0.8)

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INSTANTANEOUS FORWARD VOLT AGE V OLTS Fig. 2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISITCS (25°C)

