



DATA SHEET

AM100~AM1010

1.5 AMPERE SILICON MINIATURE SINGLE-PHASE BRIDGES

VOLTAGE 50 to 1000 Volts **CURRENT** 1.0 Amperes

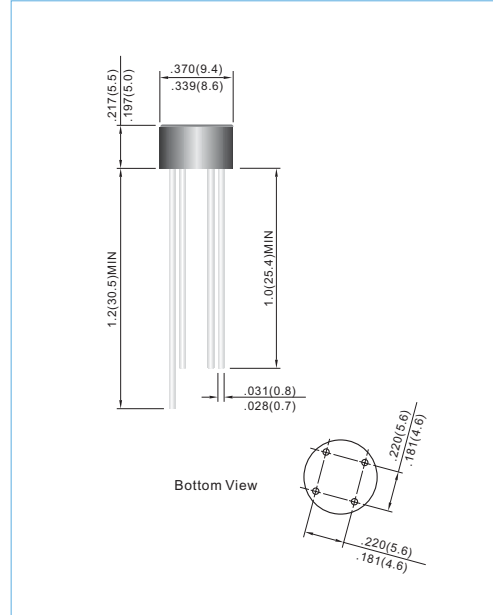
AM

Unit: inch (mm)

Reconnized 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
- Pb free product are available : 99% Sn above can meet Rohs environment substance directive request



MECHANICAL DATA

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

Terminals: Leads solderable per MIL-STD-202G,

Method 208

Polarity : Polarity symbols marking on body.

Weight: 0.05 ounce, 1.3 grams

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%.

PARAMETER	SYMBOL	AM100	AM101	AM102	AM104	AM106	AM108	AM1010	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Current for Resistive Load at $T_A = 50$	I_{AV}	1.0							A
Non-repetitive Peak Forward Surge Current at Rated Load	I_{FSM}	30.0							A
Maximum Forward Voltage Drop per Element at 1.0A DC	V_F	1.0							V
Maximum Reverse Current at Rated $T_A = 25$ DC Blocking Voltage per element $T_A = 100$	I_R	10 1000							μA
$I^2 T$ Rating for fusing ($t < 8.35ms$)	$I^2 t$	10							$A^2 sec$
Typical junction capacitance per leg (NOTES 1)	C_J	24							pF
Typical Thermal Resistance per leg (NOTE 2)	R_{QJA}	36							/ W
Typical Thermal Resistance per leg (NOTE 2)	R_{QJL}	13							
Operating Temperature Range	T_J	-55 to + 125							
Storage Temperature Range	T_A	-55 to + 150							

NOTES:

1. Measured at 1.0MHZ 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)



RATING AND CHARACTERISTIC CURVES

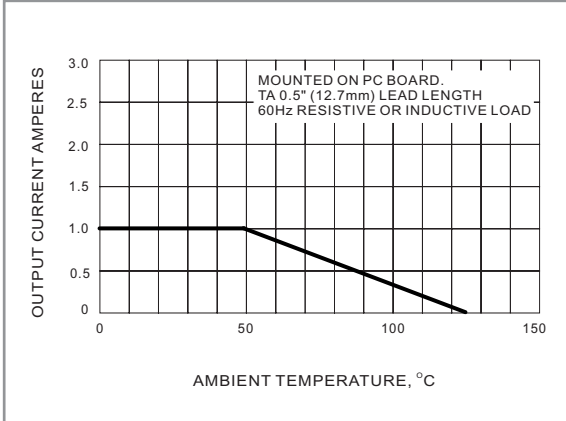


FIG.1 DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

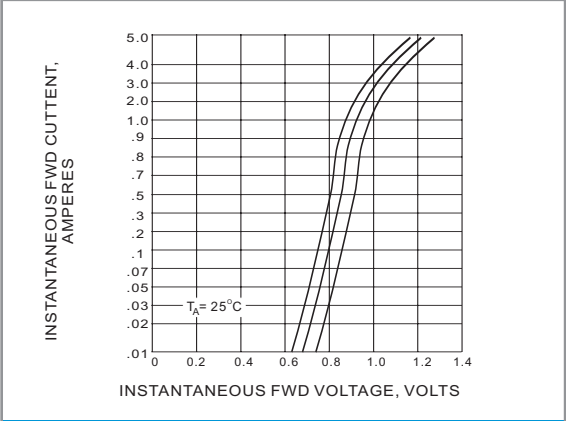


FIG.2 TYPICAL FORWARD CHARACTERISTICS

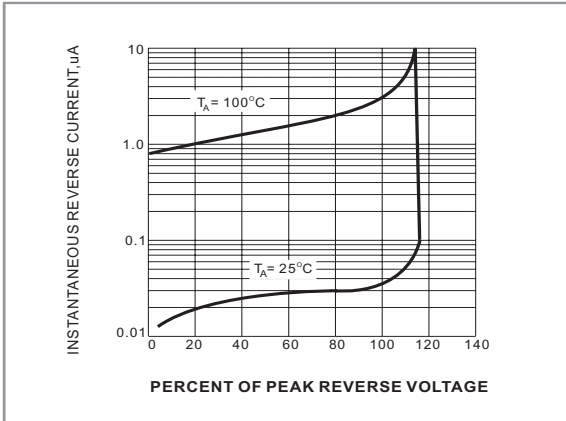


FIG.3 TYPICAL REVERSE CHARACTERISTICS

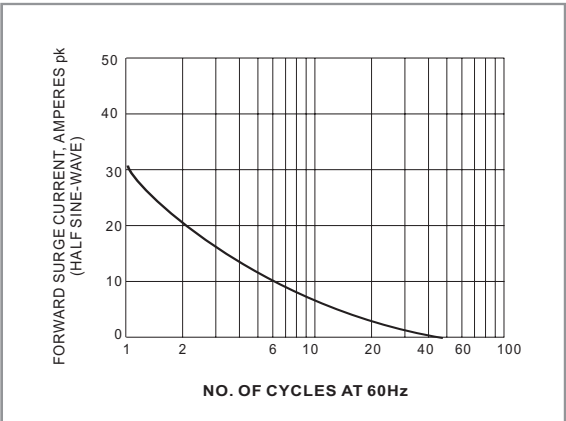


FIG.4 MAX NON-REPETITIVE SURGE CURRENT