

AM15X Series

1.5A Single Phase Bridge Rectifiers

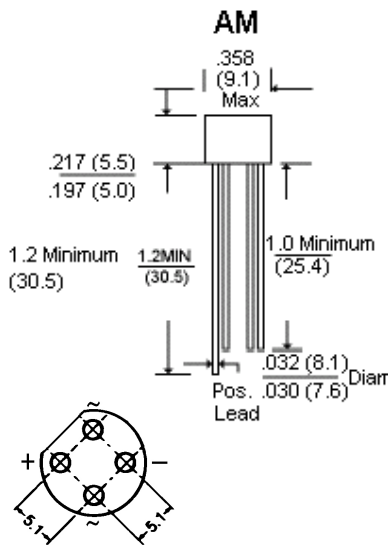


Features:

- Ratings to 1000V PRV.
- Surge overload rating - 30/50 amperes peak.
- Ideal for printed circuit board.
- Reliable construction utilizing moulded plastic.
- Mounting position : Any.

Mechanical Data:

Case	: Reliable low cost construction utilizing moulded plastic technique results in inexpensive product.
Terminals	: Lead solderable per MIL-STD-202, Method 208.
Polarity	: Polarity symbols marking on body.



Dimensions : Inches (Millimetres)

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%.		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	
Maximum DC blocking voltage		50	100	200	400	600	800	1000	
Maximum average forward rectified current at T _A = 50°C	AM150	1.5							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	AM150	50.0							
Maximum forward voltage drop per bridge element at 1.0A dc		1.0							V
Maximum reverse current at rated T _A = 25°C		10.0							μA mA
DC blocking voltage per element T _A = 100°C		1.0							
I ² t rating for fusing (t <8.35ms)		10							A ² S



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Maximum Ratings and Electrical Characteristics:

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Single phase, half wave, 60Hz, Resistive or inductive load.

Typical junction capacitance per leg (Note 1) C _J	24	pF
Typical thermal resistance per leg (Note 2) R _{θJA} Typical thermal resistance per leg (Note 2) R _{θJL}	36 13	°C/W
Operating temperature range T _J	-55 to +125	°C
Storage temperature range T _A	-55 to +150	

Notes:

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

Rating and Characteristic Curves

FIGURE 1 - MAXIMUM NON-REPETITIVE SURGE CURRENT

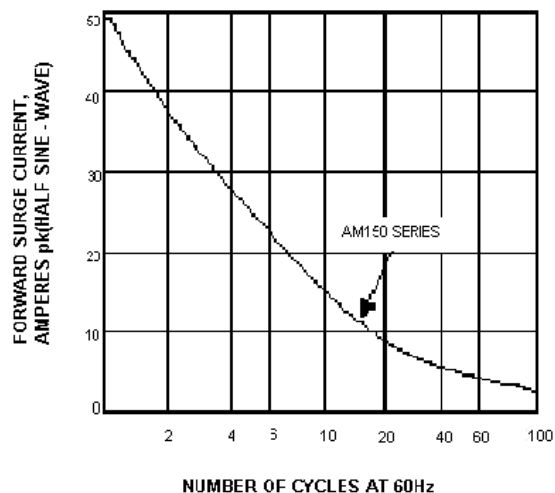
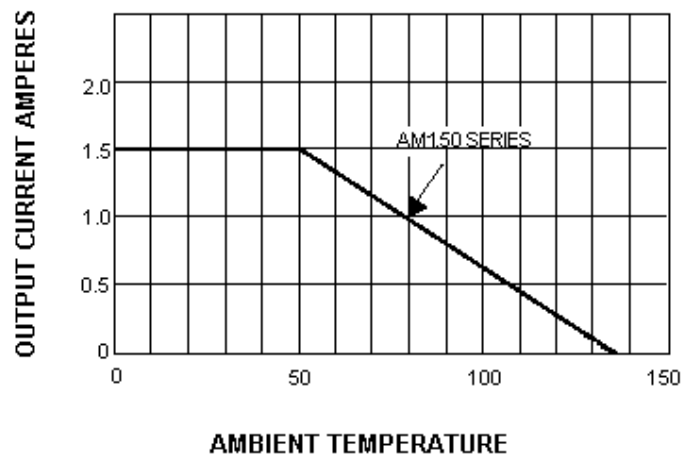


FIGURE 2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

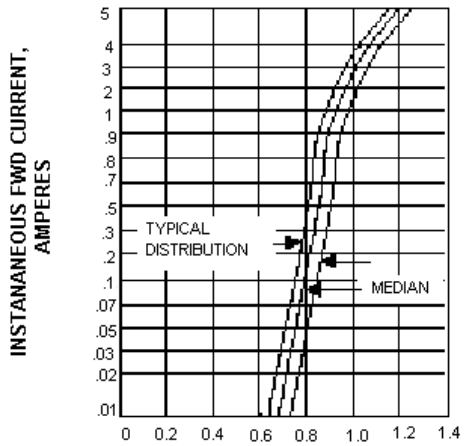


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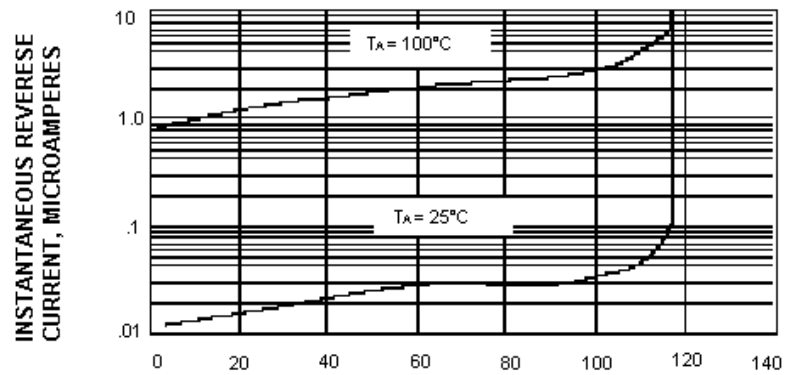


FIGURE 3 - TYPICAL FORWARD CHARACTERISTICS (25°C)



Instantaneous FWD Voltage, VOLTS

FIGURE 4 - TYPICAL REVERSE CHARACTERISTICS



Percent of Peak Reverse Voltage

Specifications

V_{RRM} (V)	Maximum AC Input Voltage (V)	Current Rating (A)	I_{FSM} (A)	Body		Pin Spacing	Part Number
				Height	Diameter		
50	35	1.5	30	5.5	9.1	5.6	AM150
100	70						AM151
200	140						AM152
400	280						AM154
600	420						AM156
800	560						AM158
1000	700						AM1510

Order Multiple = 5

Dimensions : Millimetres



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Notes:

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