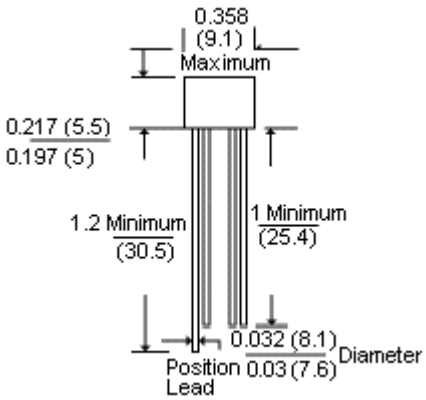
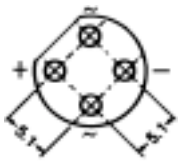
Bridge Rectifiers

1.5 A Single Phase

AM





Dimensions : Inches (Millimetres)

Features :

- Ratings to 1,000 V 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

Maximum Ratings and Electrical Characteristics:

Ratings at 25°C ambient temperature unless otherwise specified
Single phase, half wave, 60 Hz, Resistive or inductive load

For capacitive load, derate current by 20%		AM150	AM151	AM152	AM154	AM156	AM158	Unit
Maximum recurrent peak reverse voltage		50	100	200	400	600	800	V
Maximum RMS bridge input voltage		35	70	140	280	420	560	
Maximum DC blocking voltage		50	100	200	400	600	800	
Maximum average forward rectified current at T_A = 50°C	AM150	1.5						A
Peak forward surge current, 8.3 ms single half sinewave superimposed on rated load	AM150	50						
Maximum forward voltage drop per bridge element at 1 A dc		1						V
Maximum reverse current at rated T_A = 25°C DC blocking voltage per element T_A = 100°C		10 1						µA mA
I^2 t rating for fusing (t <8.35 ms)		10						A^2S

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For capacitive load, derate current by 20%	AM150	AM151	AM152	AM154	AM156	AM158	Unit
Typical junction capacitance per leg (Note 1) C_J	24						pF
Typical thermal resistance per leg (Note 2) RθJA Typical thermal resistance per leg (Note 2) RθJL	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 1 MHz and applied reverse voltage of 4 volts
2 Thermal resistance from junction to ambient and from junction to lead mounted on PCB with 0.47 × 0.47 inches (12 × 12 mm) copper pads

Rating and Characteristic Curves

Figure 1 - Maximum Non-repetitive Surge Current

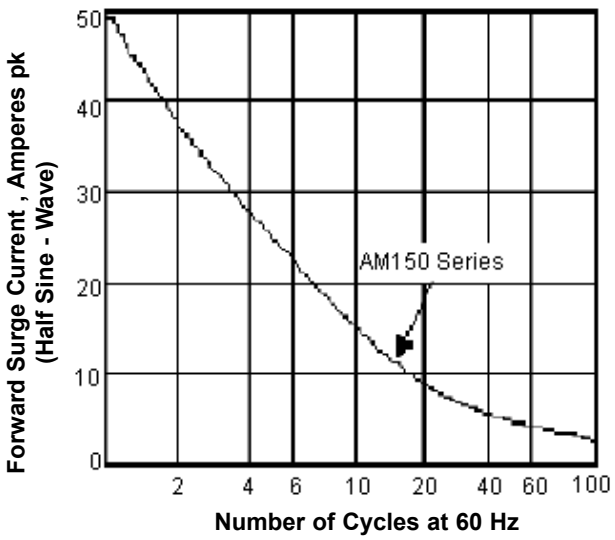


Figure 2 - Derating Curve for Output Rectified Current

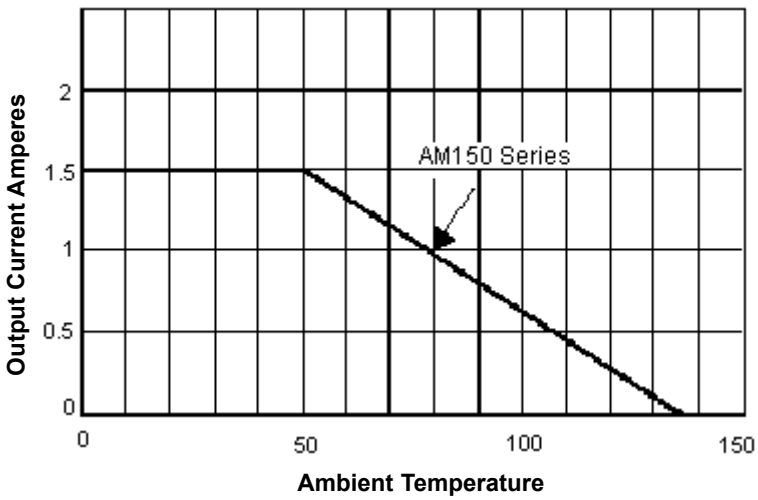


Figure 3 - Typical Forward Characteristics (25°C)

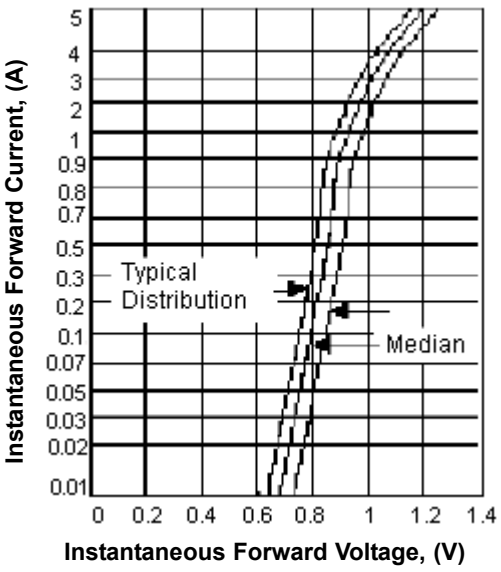
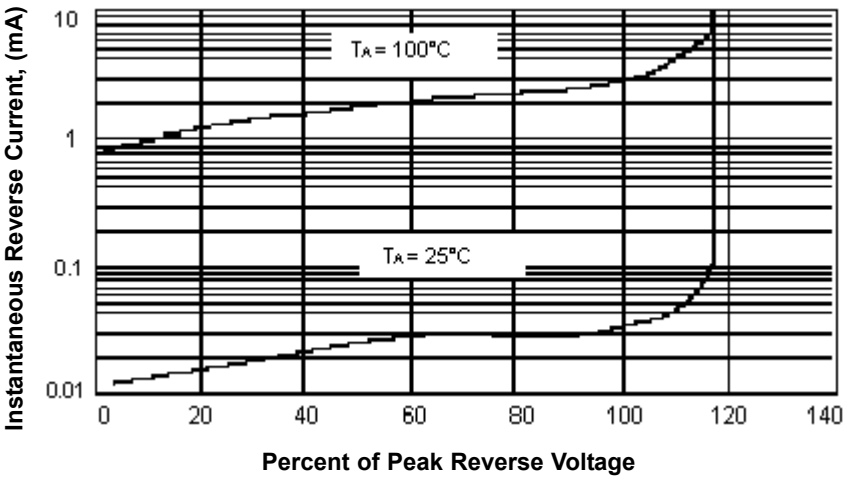


Figure 4 - Typical Reverse Characteristics



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Specification Table

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

Order Multiple = 5

Dimensions : Millimetres