



Features

- Average Forward Current: $I_{F(AV)} = 2A$
- Polarity: Color band denotes cathode



SMAF

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
S2AF-S2MF	SMAF	S2xF	3000

x: From A-M



Maximum Ratings (Ta=25°C unless otherwise noted)

Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Type Number	S2AF	S2BF	S2DF	S2GF	S2JF	S2KF	S2MF	Units	
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
Maximum Average Forward Rectified Current at Ta=75°C	2.0							A	
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	50							A	
Maximum Instantaneous Forward Voltage at 2.0A	1.1							V	
Maximum DC Reverse Current Ta=25°C	5.0							μA	
at Rated DC Blocking Voltage Ta=100°C	100							μA	
Typical Junction Capacitance (Note 1)	60							pF	
Typical Thermal Resistance R JA (Note 2)	47							°C/W	
Operating and Storage Temperature Range Tj, Tstg	-55 — +150							°C	

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance from Junction to Ambient.



Typical Characteristics

FIG.1-TYPICAL FORWARD
CHARACTERISTICS

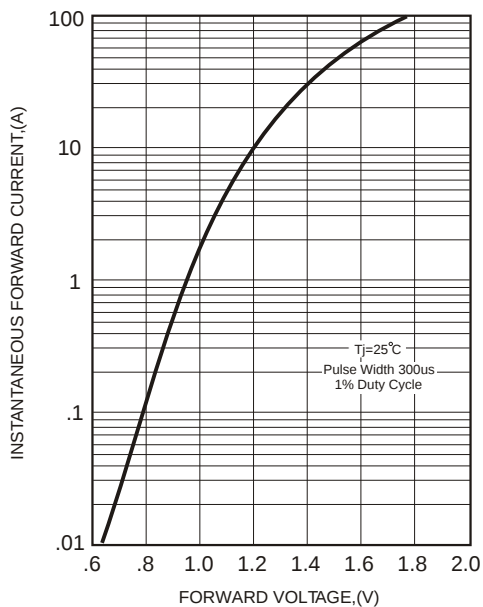


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

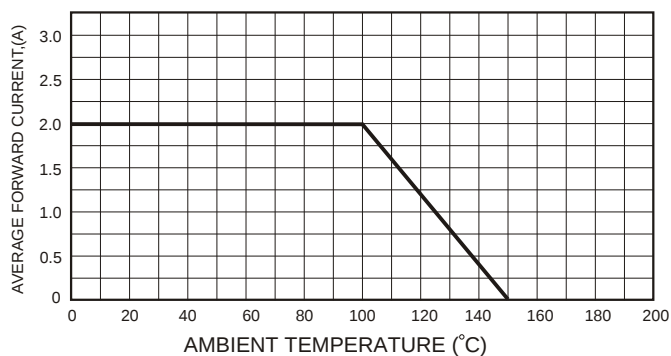


FIG.4-MAXIMUM NON-REPETITIVE FORWARD
SURGE CURRENT

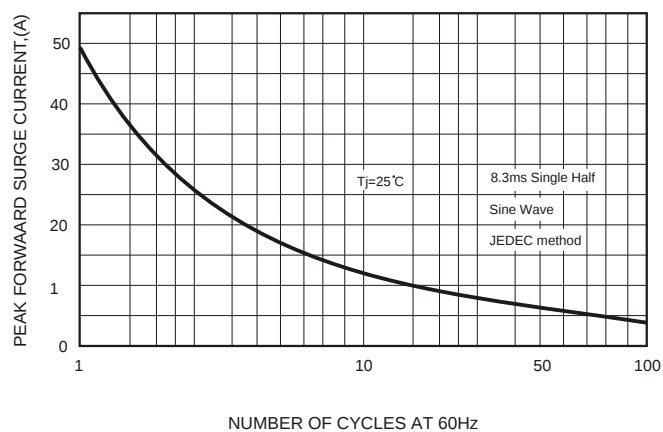


FIG.3 - TYPICAL REVERSE
CHARACTERISTICS

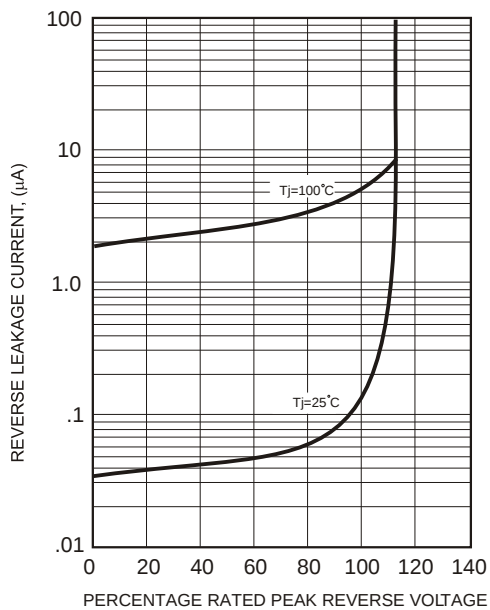
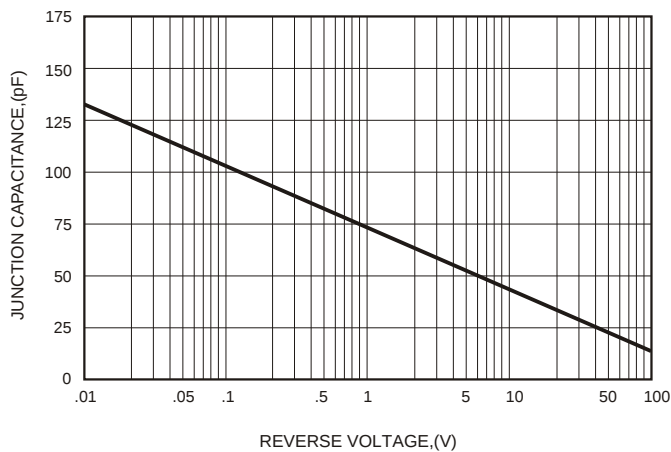
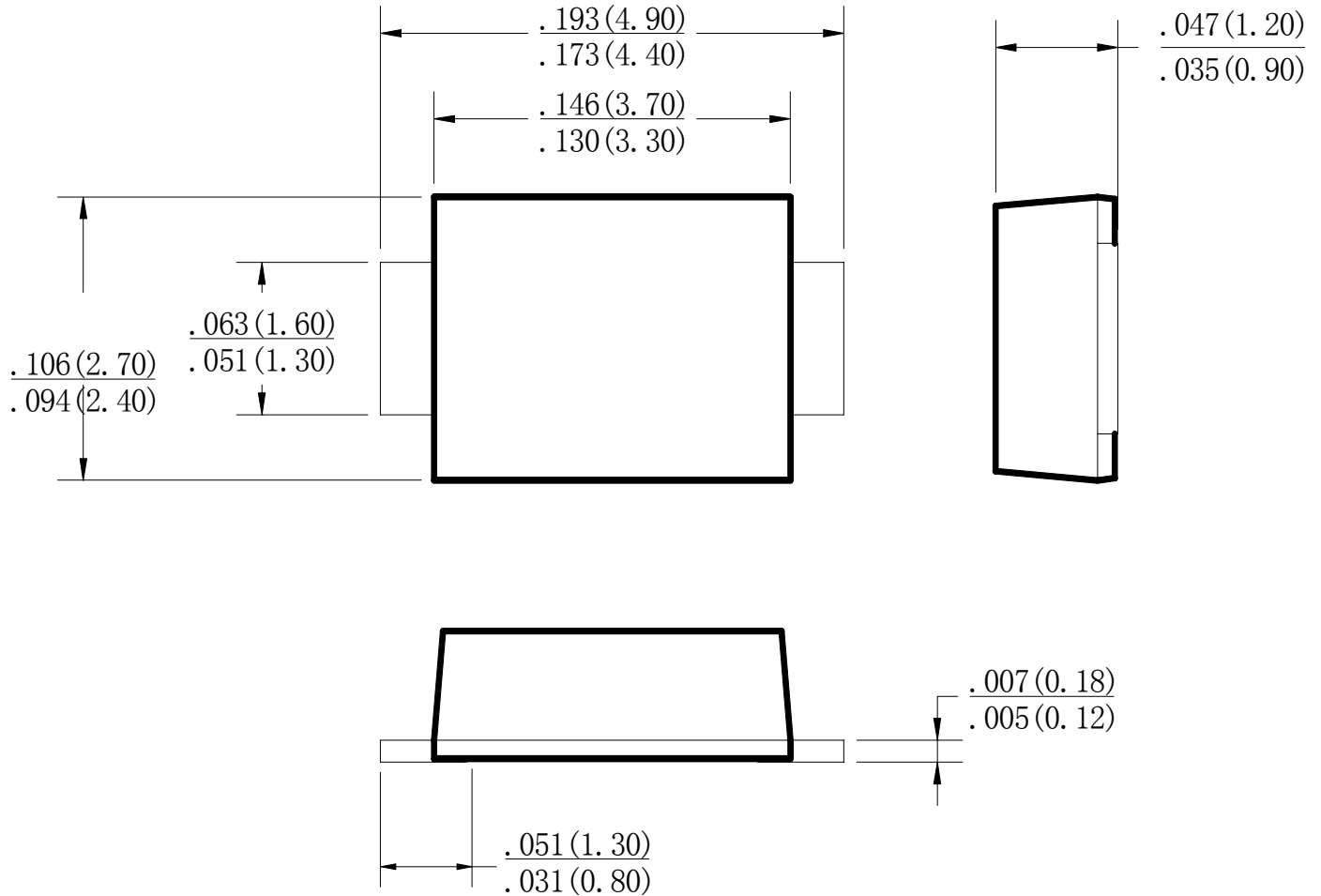


FIG.5-TYPICAL JUNCTION CAPACITANCE





SMAF Package Outline Dimensions



Dimensions in inches and (millimeters)



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