



Features

- Average Forward Current: $I_{F(AV)} = 1A$
- Polarity: Color band denotes cathode



SMAF

Ordering Information

Product ID	Pack	Marking	Qty(PCS)
RBR1LAM40ATR	SMAF	R14FH	3000



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

Type Number	Limit	Unit
Maximum Recurrent Peak Reverse Voltage	40	V
Maximum RMS Voltage	28	V
Maximum DC Blocking Voltage	40	V
Maximum Average Forward Rectified Current See Fig. 1	1.0	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	30	A
Maximum Instantaneous Forward Voltage at 2.0A	0.55	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	Ta=25°C 0.2 Ta=100°C 10	mA mA
Typical Junction Capacitance (Note1)	110	pF
Typical Thermal Resistance RJA (Note 2)	50	°C/W
Operating junction Temperature Range Tj	-65 — +150	°C
Storage Temperature Range Tstg	-65 — +150	°C

NOTES:

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



Typical Characteristics

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

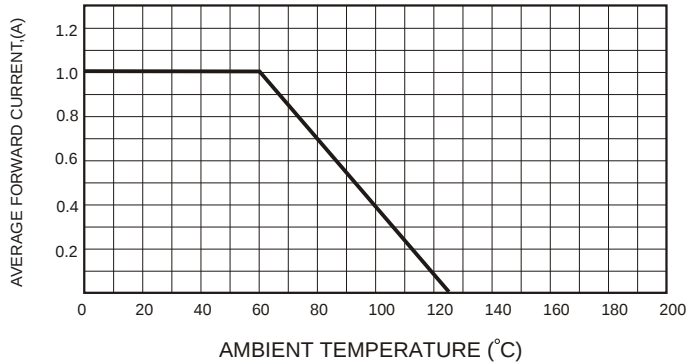


FIG.2-TYPICAL FORWARD CHARACTERISTICS

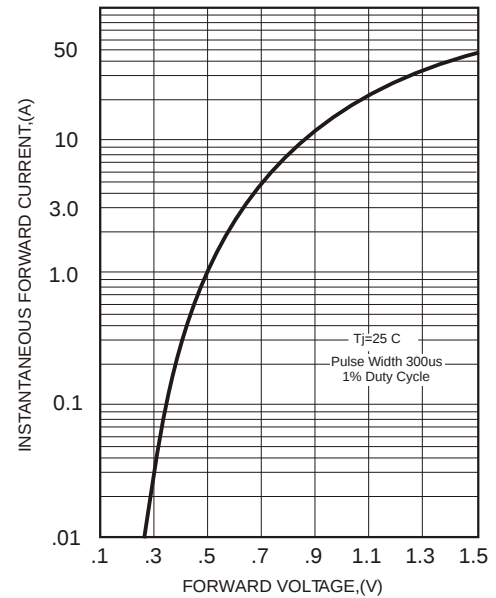


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

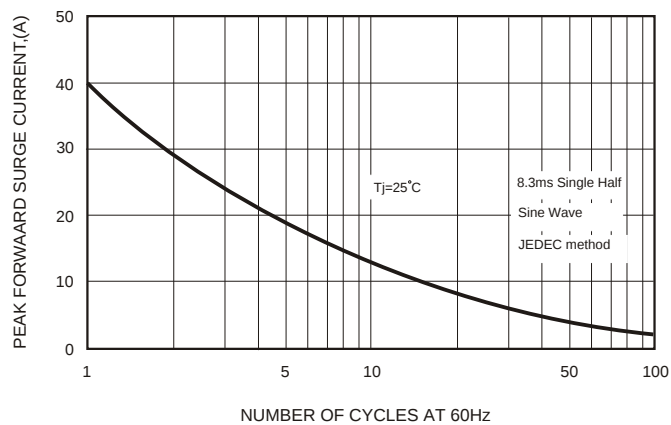


FIG.4-TYPICAL JUNCTION CAPACITANCE

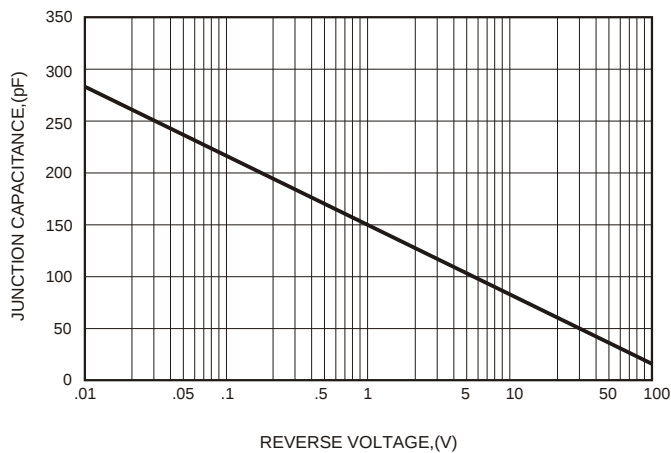
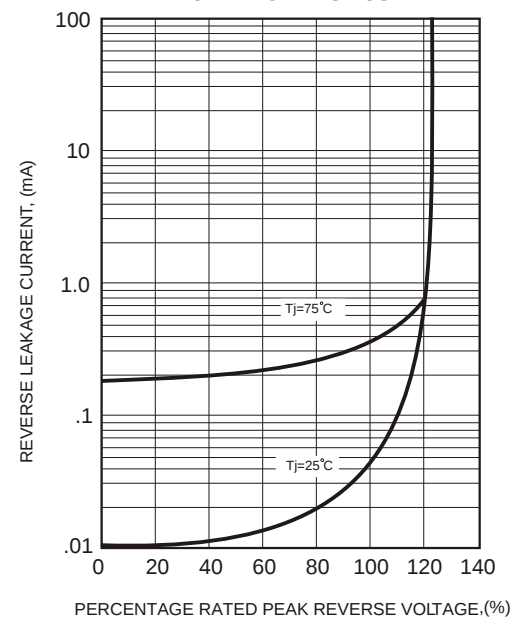
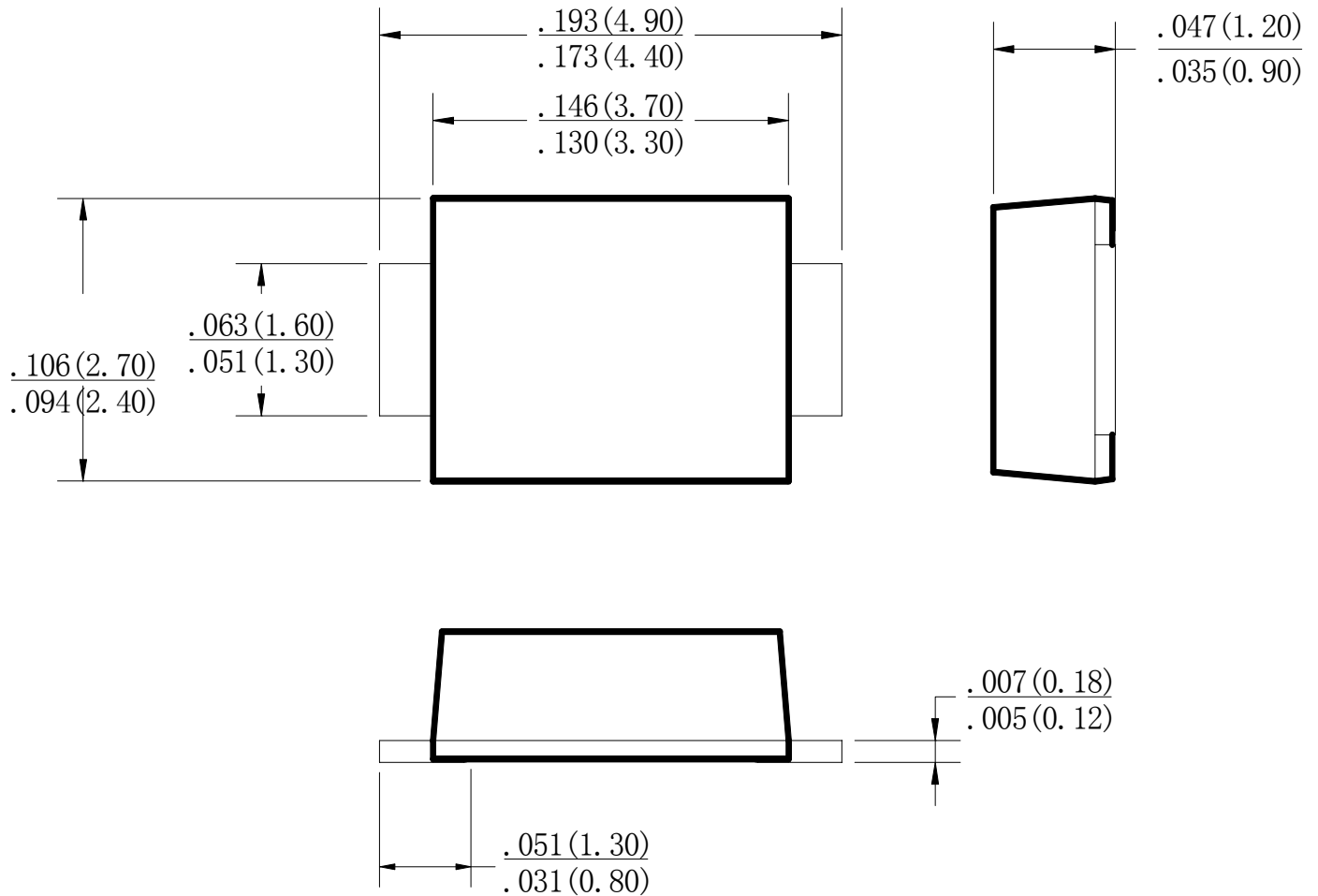


FIG.5 - TYPICAL REVERSE CHARACTERISTICS





SMAF Package Outline Dimensions



Dimensions in inches and (millimeters)



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