



Features

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



SMAF

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
RB168LAM-40TFTR	SMAF	SS14F	3000



Maximum Ratings ($T_a = 25^{\circ}C$ 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 $T_a = 25^{\circ}C$	0.2	mA
at Rated DC Blocking Voltage $T_a = 100^{\circ}C$	10	mA
Typical Junction Capacitance (Note1)	110	pF
Typical Thermal Resistance R_{JA} (Note 2)	50	$^{\circ}C/W$
Operating junction Temperature Range T_J	-65 — +150	$^{\circ}C$
Storage Temperature Range T_{STG}	-65 — +150	$^{\circ}C$

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

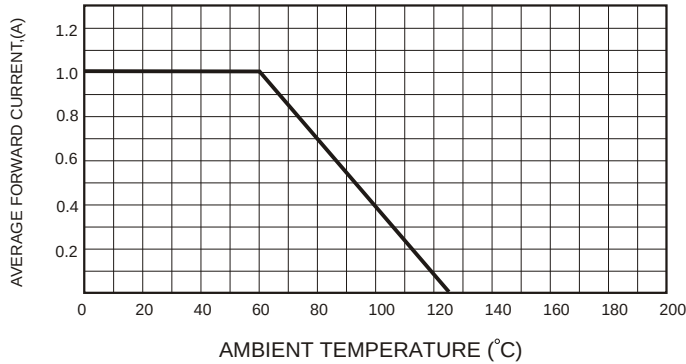


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

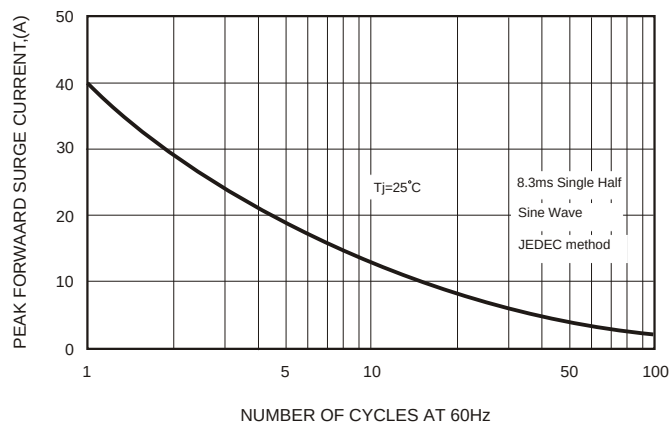


FIG.4-TYPICAL JUNCTION CAPACITANCE

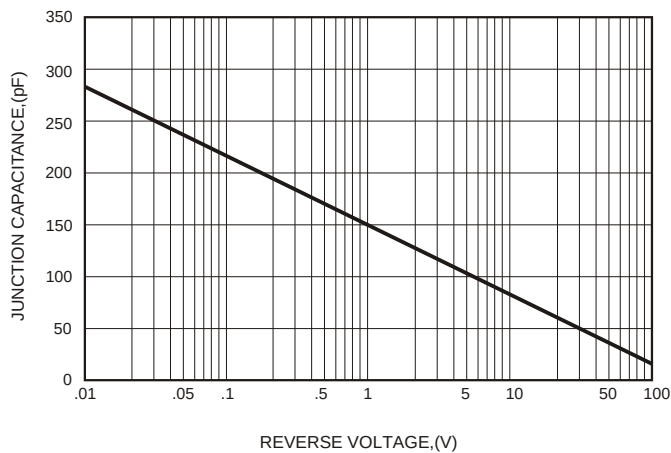


FIG.2-TYPICAL FORWARD CHARACTERISTICS

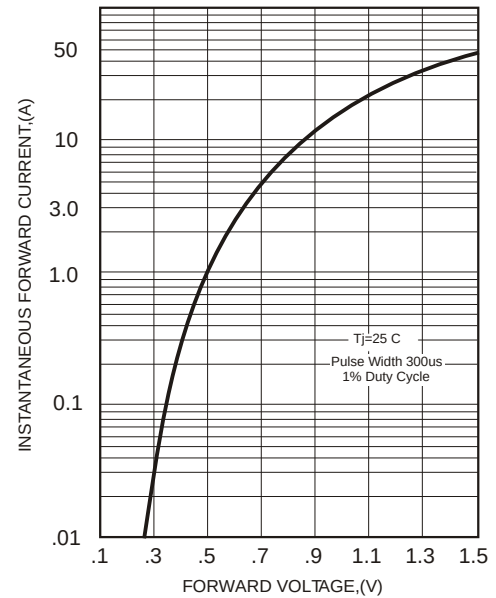
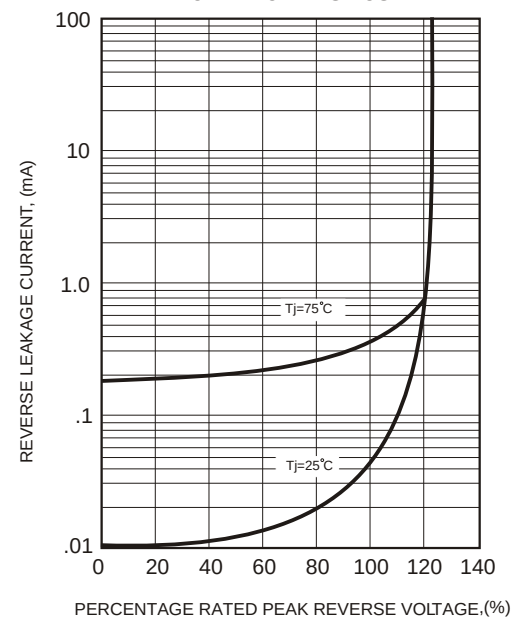
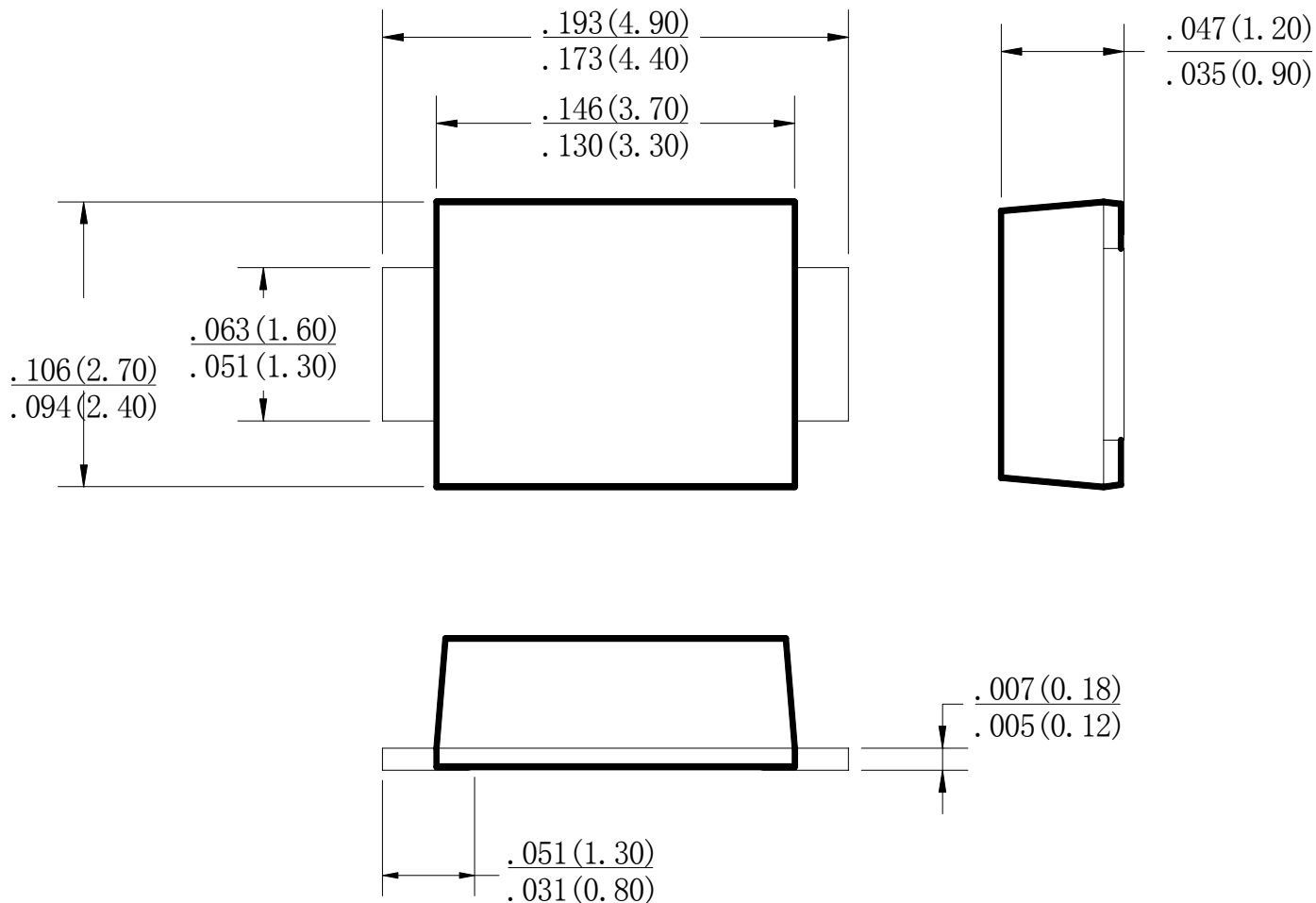


FIG.5 - TYPICAL REVERSE CHARACTERISTICS





SMAF Package Outline Dimensions



Dimensions in inches and (millimeters)



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