

## FEATURES

- Average Forward Current:I<sub>F(AV)</sub>=1A
- Polarity: Color band denotes cathode

# Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)			
M1F-M7F	SMAF	M <b>*</b> F	10000			



SMAF

—	<u> </u>	-	

★:From 1-7

# MAXIMUM RATINGS (Ta=25 unless otherwise noted)

				M								
ltem	Symbol	Unit	Test Conditions		2F	3F	4F	5F	6F	7F		
Repetitive Peak Reverse Voltage	$V_{\text{RRM}}$	V		50	100	200	400	600	800	1000		
Maximum RMS Voltage	VRMS	V		35	70	140	280	420	560	700		
Average Forward Current	I <sub>F(AV)</sub>	A	60Hz Half-sine wave , Resistance load , TL=75 $^\circ$	1.0								
Surge(Non-repetitive)Forward Current	I <sub>FSM</sub>	A	60Hz Half-sine wave, 1 cycle,Ta=25℃	30								
Operation Junction and Storage Temperature Range	T <sub>J</sub> ,T <sub>STG</sub>	°C		-55 ~ +150								

# ELECTRICAL CHARACTERISTICS (Ta=25 unless otherwise specified)

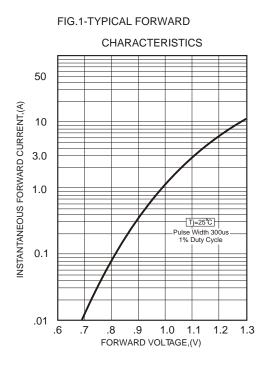
			Test Condition			м								
Item	Symbol	Unit				2F	3F	4F	5F	6F	7F			
Peak Forward Voltage	$V_{F}$	V	I <sub>F</sub> =1.0A			1.0								
Peak Reverse Current	I <sub>RRM1</sub>	μA	V <sub>RM</sub> =V <sub>RRM</sub>	T <sub>a</sub> =25℃				5						
	I <sub>RRM2</sub>			Ta=125℃				50						
Thermal	$R_{_{\theta J\text{-}A}}$	°C/W	Between juncti	on and ambient	55									
Resistance(Typical)	$R_{\theta_{J}-L}$	07.00	Between junction and terminal					25						

### Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas



#### **Typical Characteristics**



#### FIG.3 - TYPICAL REVERSE

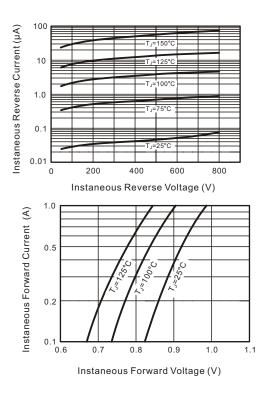
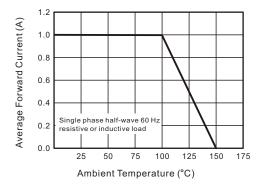
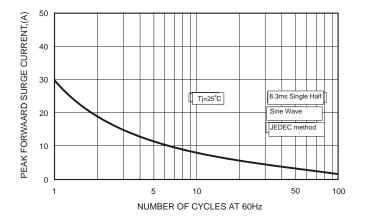


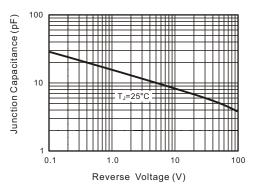
FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE





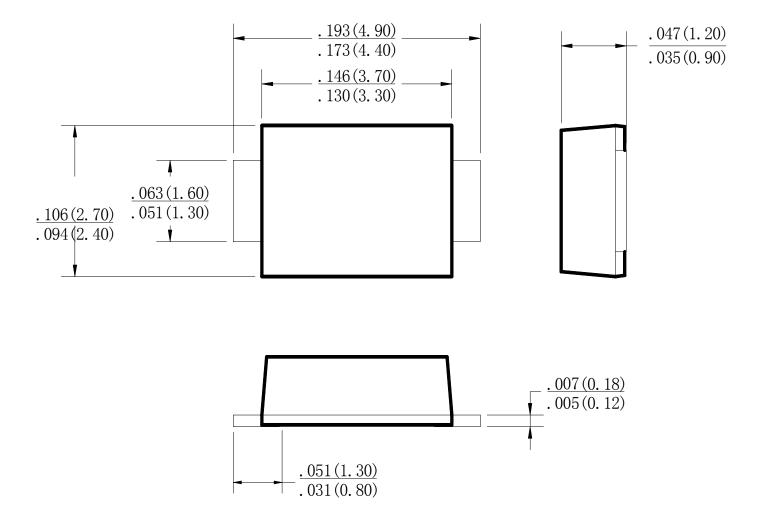








# SMAF Package Outline Dimensions



Dimensions in inches and (millimeters)



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