



Features

- Average Forward Current: $I_{F(AV)}=5A$
- Polarity: Color band denotes cathode



SMAF

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
SS5xSH	SMAF	SS5x	3000

x: From 2F-20F



Maximum Ratings ($T_a=25^{\circ}C$ unless otherwise noted)

Item	Symbol	Unit	Test Conditions	SS5									
				2F	3F	4F	5F	6F	8F	10F	15F	20F	
Repetitive Peak Reverse Voltage	V _{RRM}	V		20	30	40	50	60	80	100	150	200	
MaximumRMS Voltage	V _{RMS}	V		14	21	28	35	42	56	70	105	140	
Average Forward Current	I _{F(AV)}	A	60Hz Half-sine wave, Resistance load, TL(Fig.1)	5.0									
Surge(Non-repetitive)Forward Current	I _{FSM}	A	60Hz Half-sine wave, 1 cycle, Ta=25°C	150									
Junction Temperature	T _J	°C		-55~+125			-55~+150						
Storage Temperature	T _{STG}	°C		-55 ~ +150									

Electrical Characteristics ($T_a=25^{\circ}C$ unless otherwise specified)

Item	Symbol	Unit	Test Condition		SS5							
					2F	3F	4F	5F	6F	8F	10F	15F
Peak Forward Voltage	V _F	V	I _F =5.0A		0.55		0.70		0.85		0.95	
Peak Reverse Current	I _{RRM1}	mA	V _{RM} =V _{RRM}	T _a =25℃	0.5				0.2			
	T _a =100℃			10		5.0						
Thermal Resistance(Typical)	R _{θJ-A}	℃/W	Between junction and ambient		55							
	R _{θJ-L}		Between junction and terminal		17							

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.1: FORWARD CURRENT DERATING CURVE

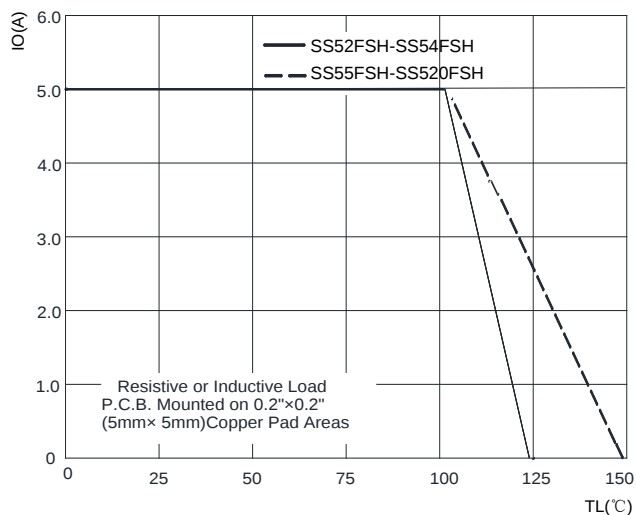


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

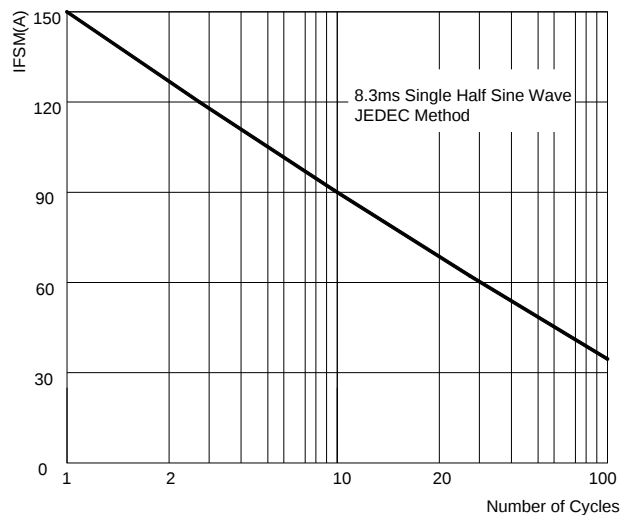


FIG.3: TYPICAL FORWARD CHARACTERISTICS

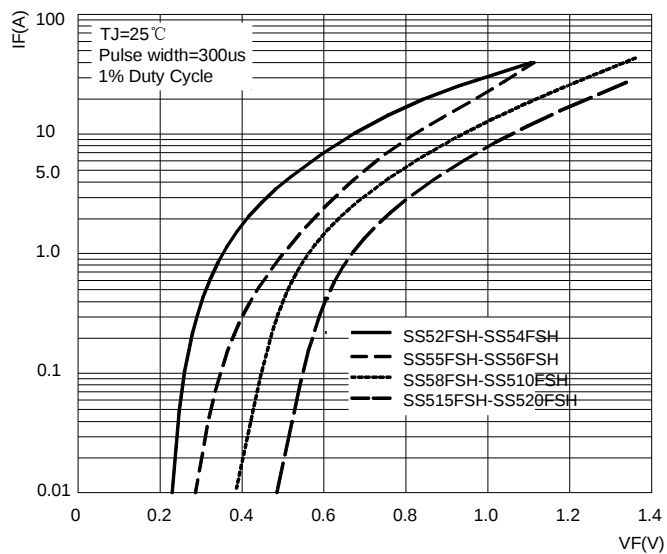
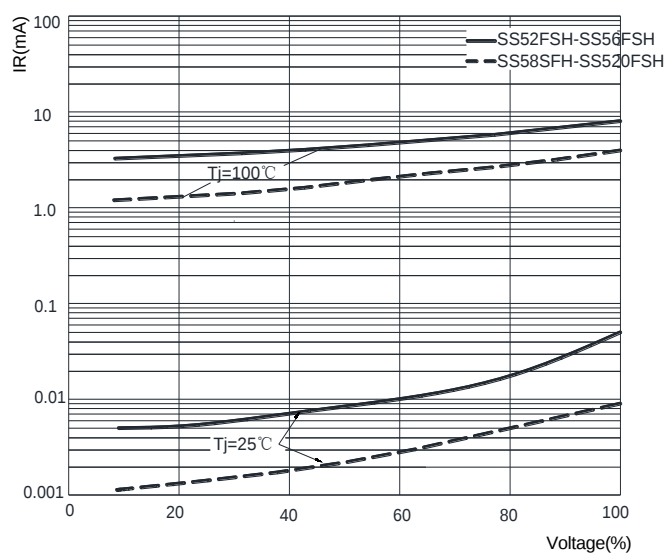
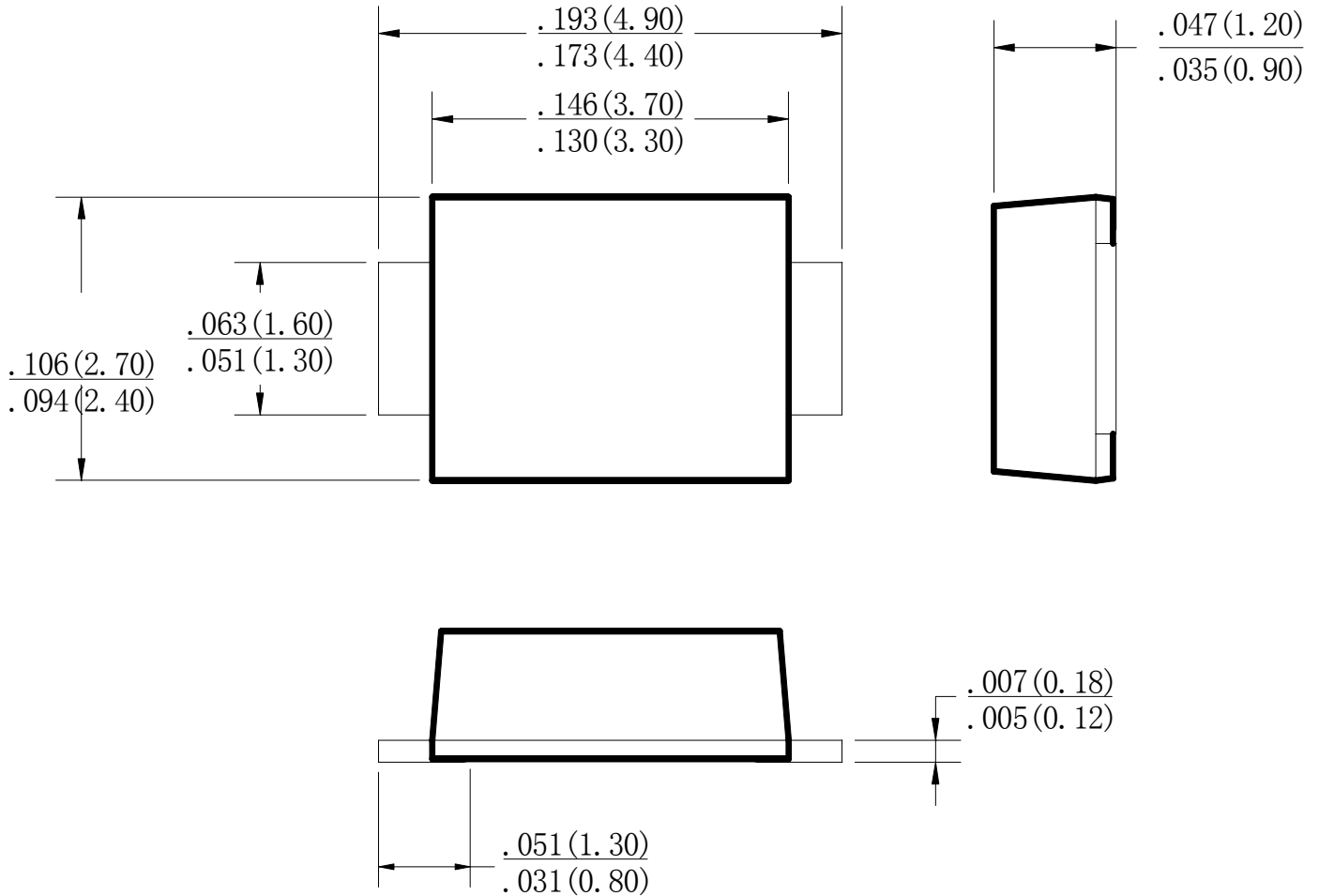


FIG.4: TYPICAL REVERSE CHARACTERISTICS





SMAF Package Outline Dimensions



Dimensions in inches and (millimeters)



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