

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)
SS52F~SS520F	SMAF	SS5★	3000

★:From2F-20F



MAXIMUM RATINGS (Ta=25°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℃	150								
Junction Temperature	T _J	℃		-55~+125			-55~+150					
Storage Temperature	T _{STG}	℃		-55 ~ +150								

ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Item	Symbol	Unit	Test Condition		SS5								
					2F	3F	4F	5F	6F	8F	10F	15F	20F
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								
	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

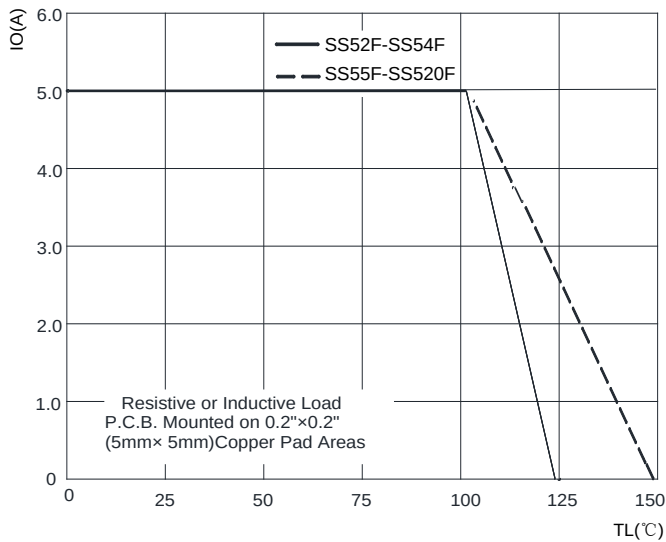


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

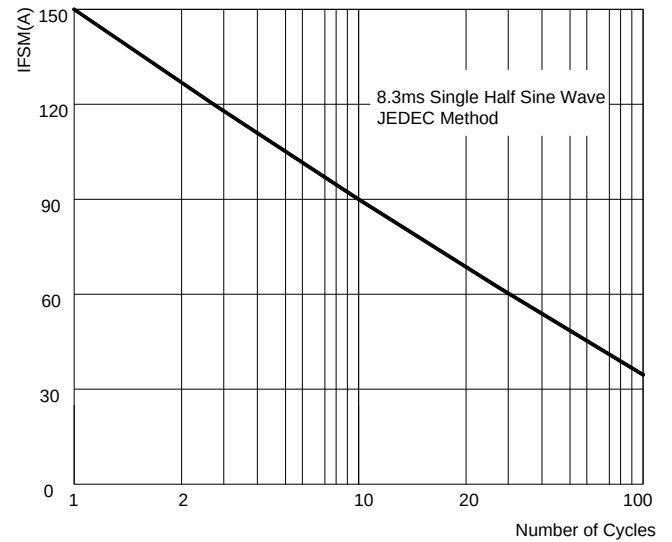


FIG.3: TYPICAL FORWARD CHARACTERISTICS

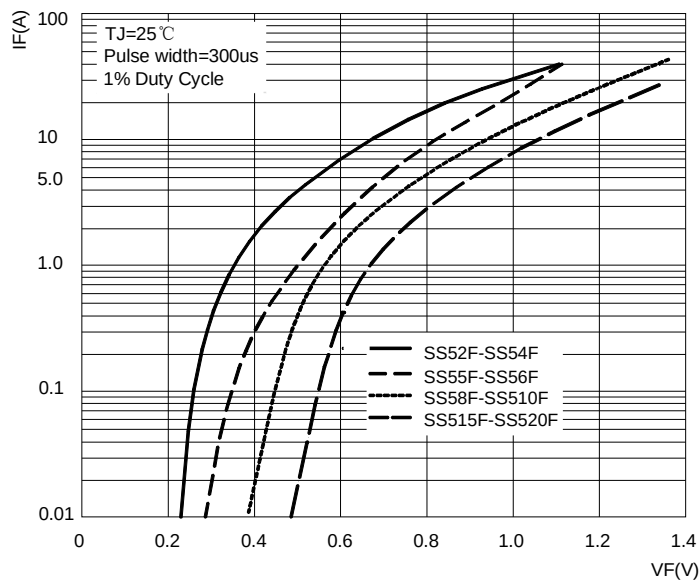
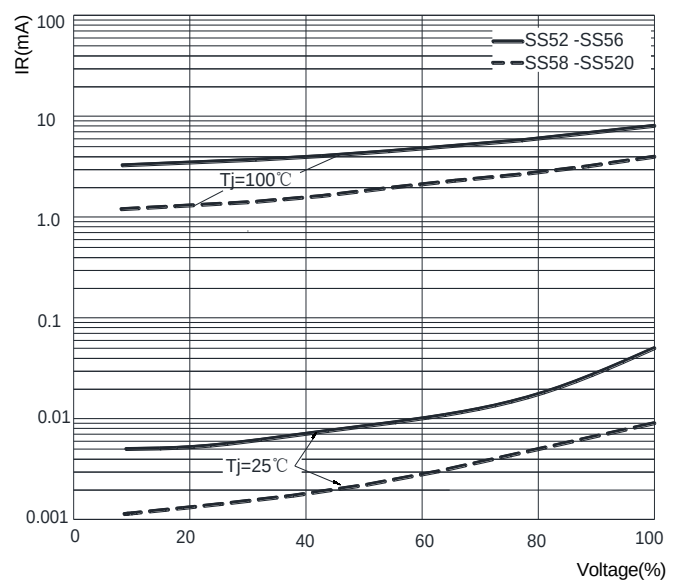
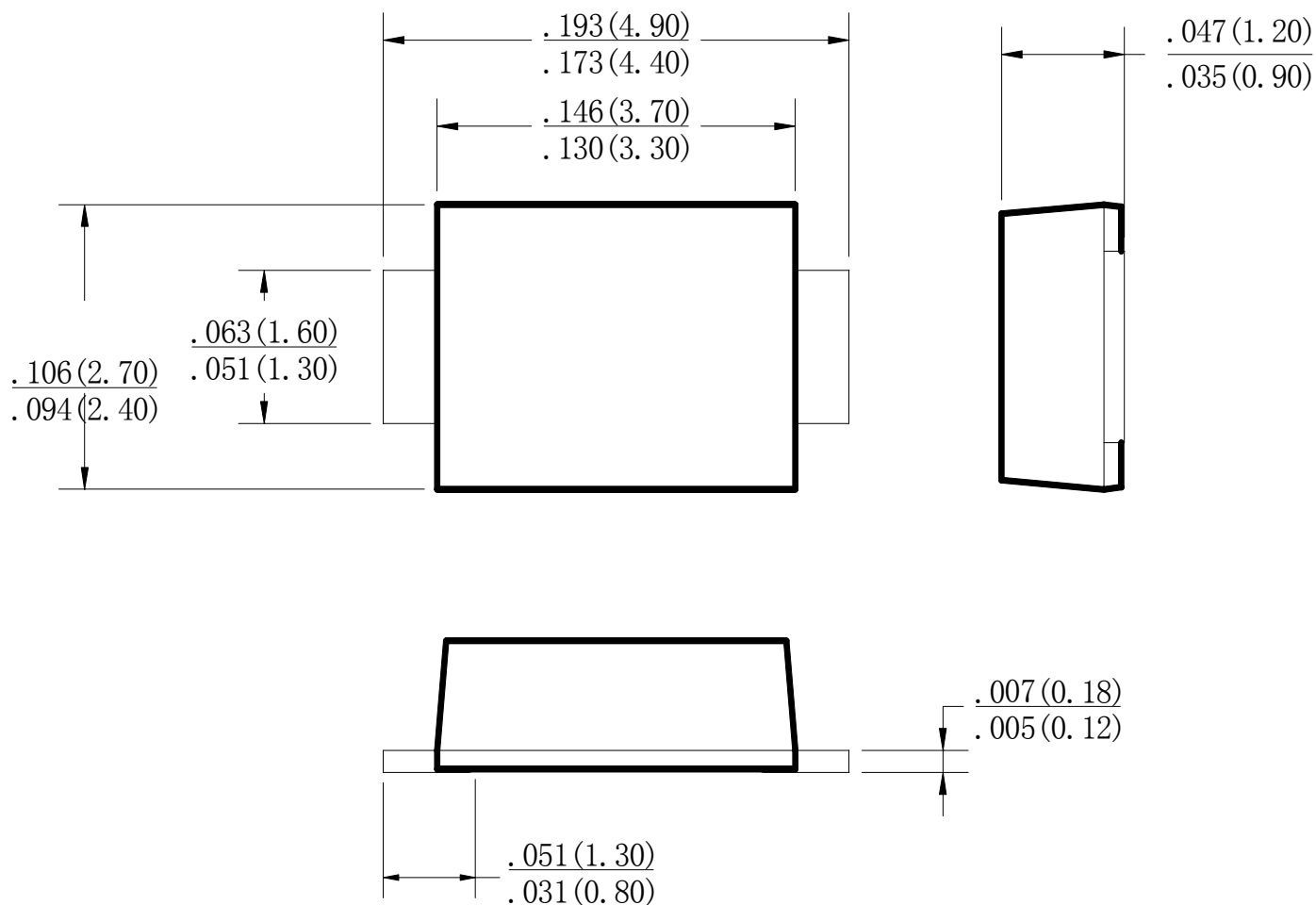


FIG.4: TYPICAL REVERSE CHARACTERISTICS



SMAF Package Outline Dimensions



Dimensions in inches and (millimeters)