



SS52F-SS520F Schottky Rectifier

Feature

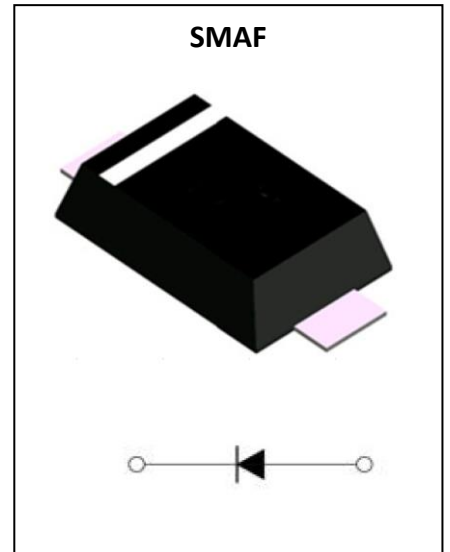
- High current capability
- Low VF
- High surge current capability

Application

- Rectifier

Marking

- SS52-SS520



ABSOLUTE MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	SS5									Unit
		2F	3F	4F	5F	6F	8F	10F	15F	20F	
Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	105	140	V
Average Forward Current(60HZ Half-sine wave, Resistance load, TL(Fig.1))	$I_{F(AV)}$	5.0									A
Non-repetitive Peak Forward Surge Current (60Hz Half-sine wave ,1 cycle , $T_a=25^{\circ}\text{C}$)	I_{FSM}	150									A
Junction Temperature	T_J	-65 ~ +125			-65 ~ +150						$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-65 ~ +150									$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Test Condition		SS5								Unit	
				2F	3F	4F	5F	6F	8F	10F	15F		20F
Peak Forward Voltage	V_F	$I_F = 1\text{A}$		0.55			0.70		0.85		0.95		V
Peak Reverse Current	I_{RRM1}	$V_{RM}=V_{RRM}$	$T_a=25^{\circ}\text{C}$	0.5				0.2				mA	
	I_{RRM2}		$T_a=100^{\circ}\text{C}$	20			10					mA	
Thermal Resistance(Typical)	$R_{\theta J-A}$	Between junction and ambient		55								$^{\circ}\text{C}/\text{W}$	
	$R_{\theta J-L}$	Between junction and terminal		17								$^{\circ}\text{C}/\text{W}$	

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

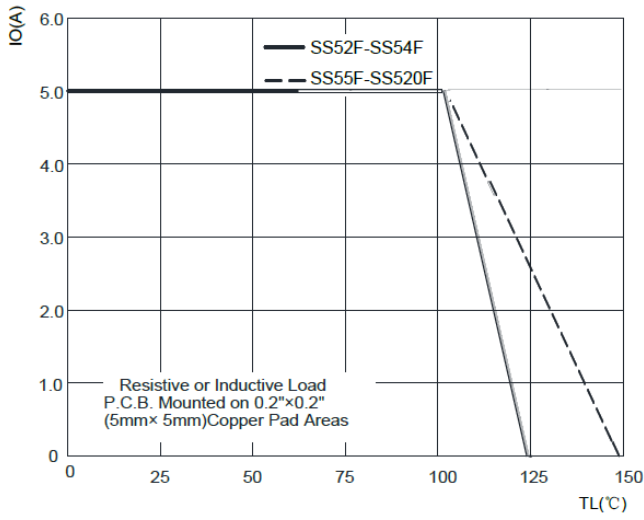


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

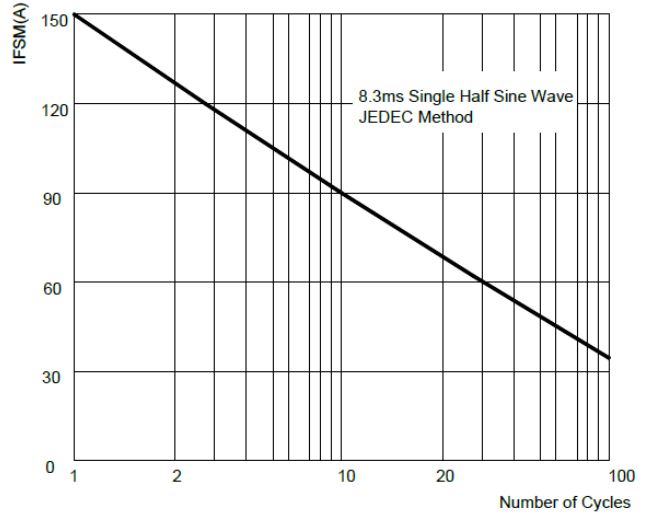


FIG.3: TYPICAL FORWARD CHARACTERISTICS

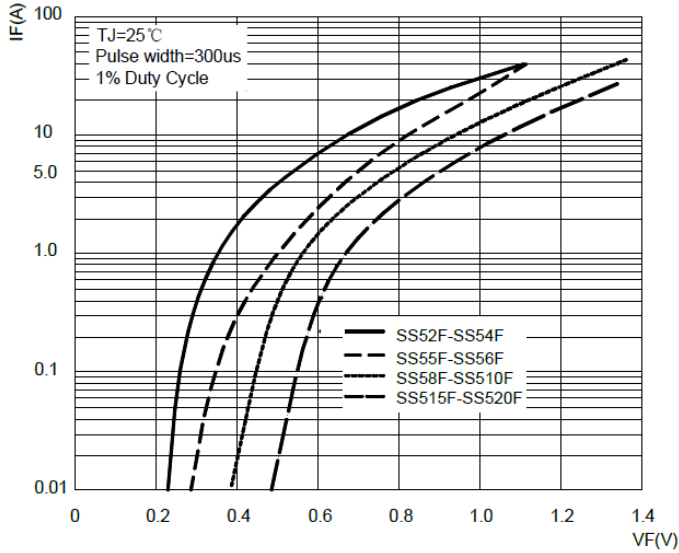
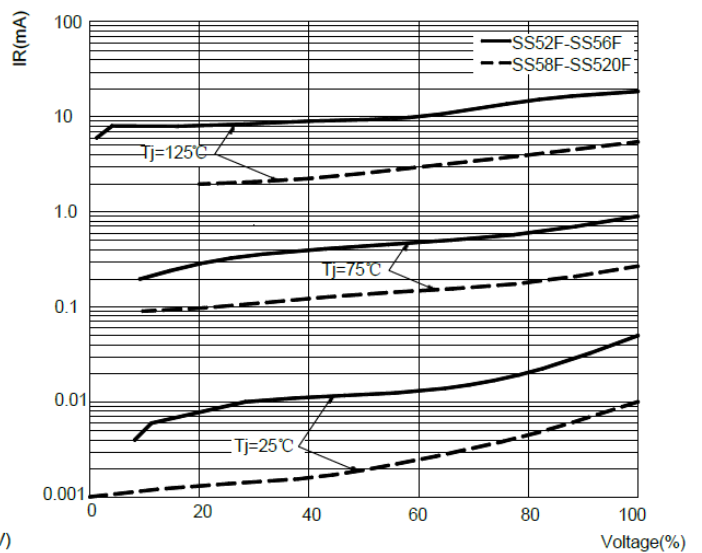
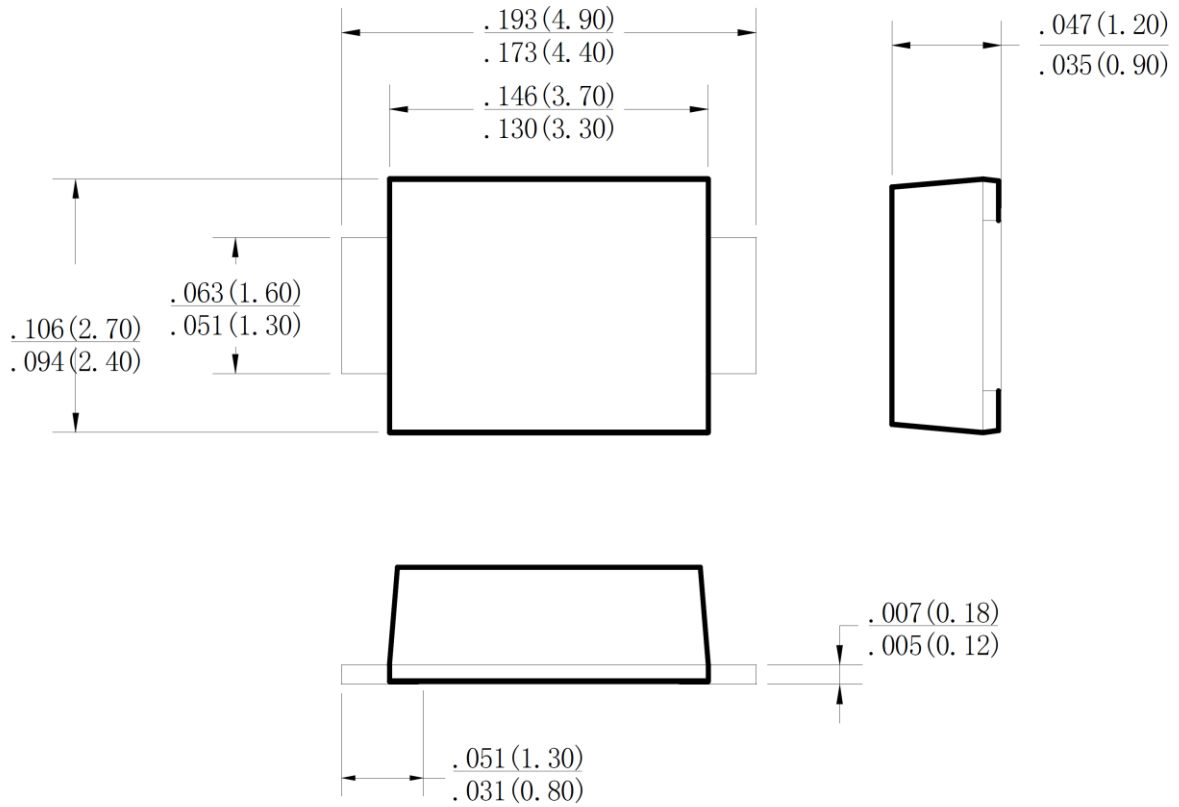


FIG.4: TYPICAL REVERSE CHARACTERISTICS



SMAF Package Outline Dimensions



Dimensions in inches and (millimeters)