



SS12F-SS120F Schottky Rectifier

Feature

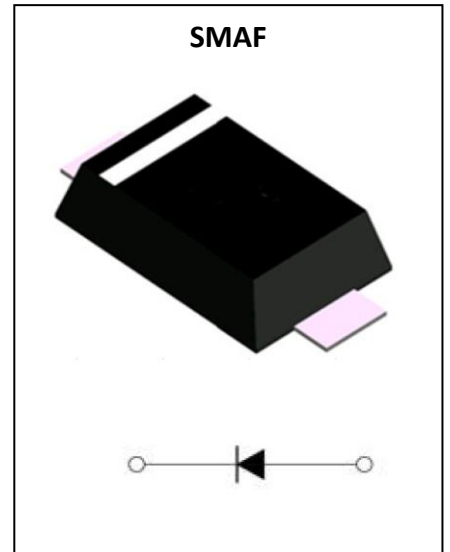
- High current capability
- Low VF
- High surge current capability

Application

- Rectifier

Marking

- SS12-SS120



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

Parameter	Symbol	SS1										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))	$I_{F(AV)}$	1.0										A
Non-repetitive Peak Forward Surge Current (60Hz Half-sine wave ,1 cycle , $T_a=25^{\circ}\text{C}$)	I_{FSM}	30										A
Junction Temperature	T_J	-55 ~ +125					-55 ~ +150					$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55 ~ +150										$^{\circ}\text{C}$

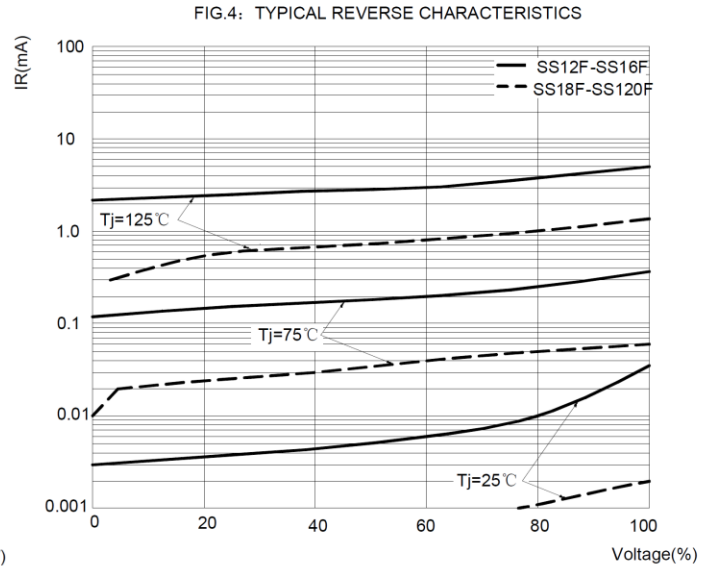
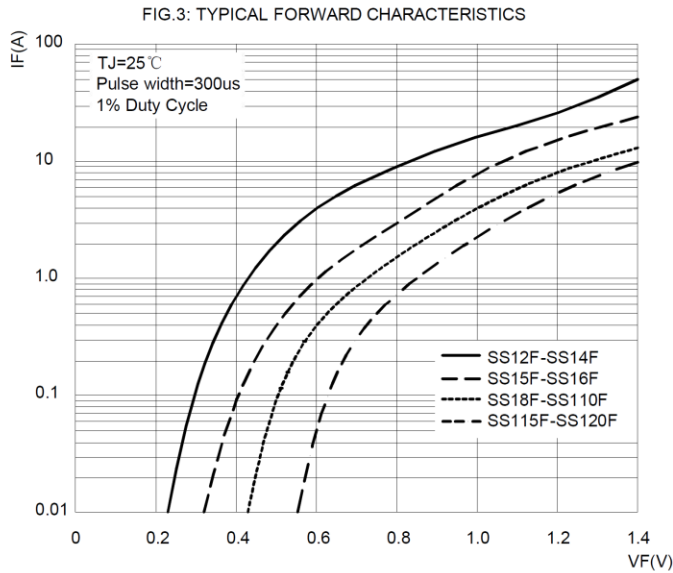
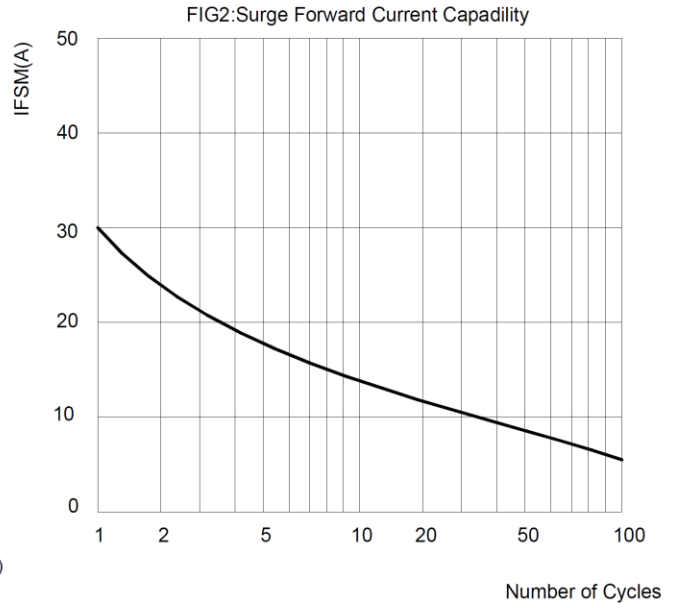
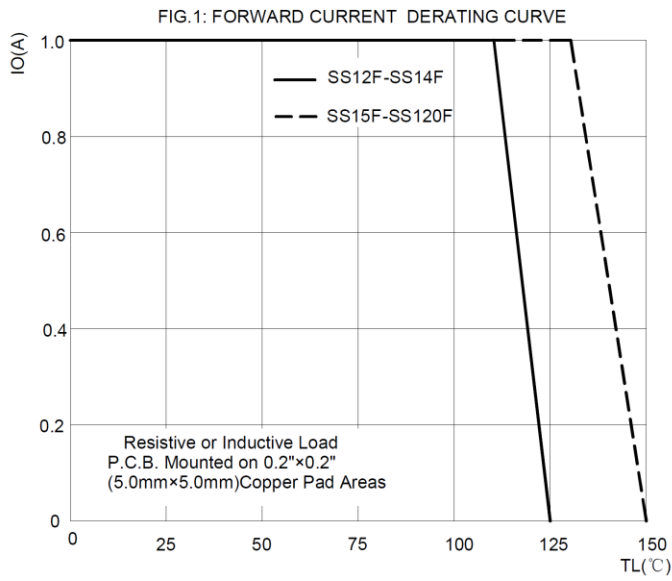
ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

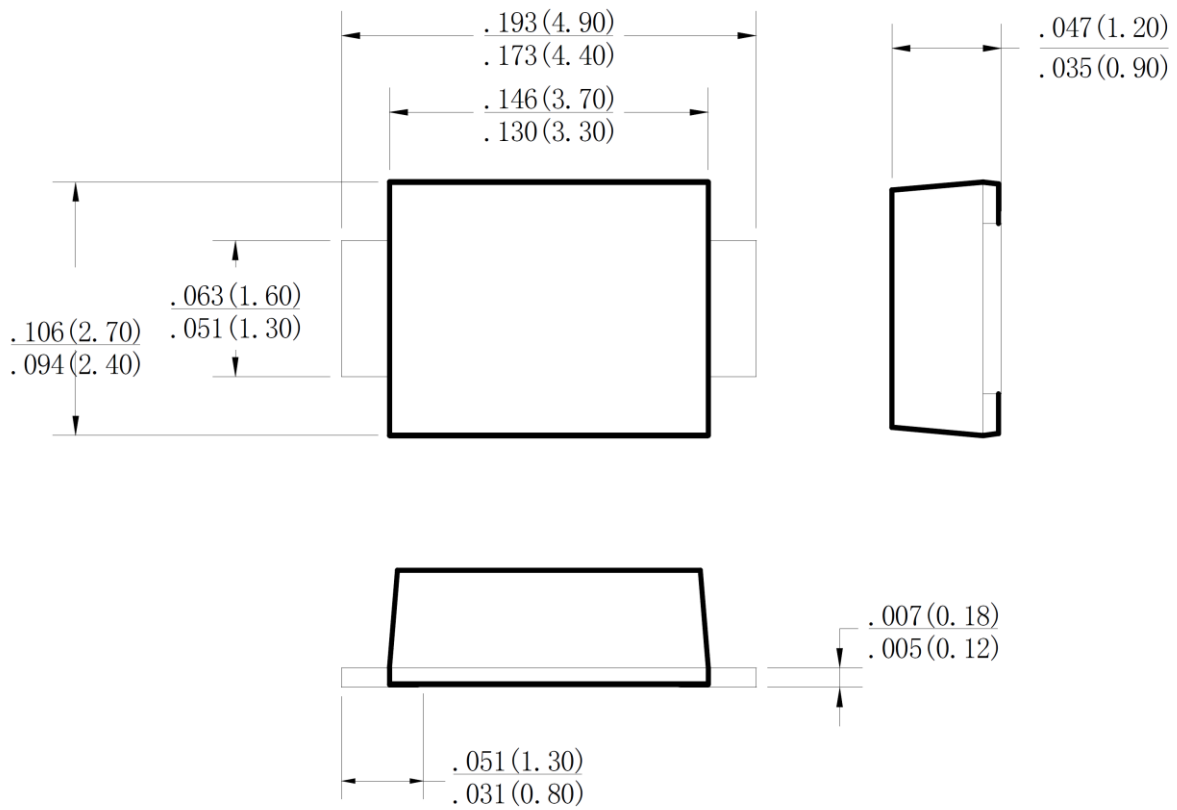
Parameter	Symbol	Test Condition		SS1								Unit
				2F	3F	4F	5F	6F	8F	10F	15F	
Peak Forward Voltage	V_F	$I_F = 1\text{A}$		0.55		0.70		0.85		0.95		V
Peak Reverse Current	I_{RRM1}	$V_{RM}=V_{RRM}$	$T_a=25^{\circ}\text{C}$	0.5				0.2				mA
	I_{RRM2}		$T_a=100^{\circ}\text{C}$	10		5.0						mA
Thermal Resistance(Typical)	$R_{\theta J-A}$	Between junction and ambient		88								$^{\circ}\text{C}/\text{W}$
	$R_{\theta J-L}$	Between junction and terminal		28								$^{\circ}\text{C}/\text{W}$

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



SMAF Package Outline Dimensions


Dimensions in inches and (millimeters)