

Features

- $I_{F(AV)}$ 3A
- V_{RRM} 20V-200V
- High surge current capability
- Polarity: Color band denotes cathode

SMAF



Marking : SS3X

X : 2 To 20

Applications

Rectifier

Limiting Values(Absolute Maximum Rating)

Item	Symbol	Unit	Test Conditions	SS3								
				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
Maximum RMS 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	3.0								
Surge(Non-repetitive)Forward Current	I _{FSM}	A	60Hz Half-sine wave , 1 cycle, Ta=25℃	80								
Junction Temperature	T _J	℃		-55 ~ +150								
Storage Temperature	T _{STG}	℃		-55 ~ +150								

Electrical Characteristics ($T = 25^{\circ}C$ Unless otherwise specified)

Item	Symbol	Unit	Test Condition		SS3								
					2F	3F	4F	5F	6F	8F	10F	15F	20F
Peak Forward Voltage	V _F	V	I _F =3.0A		0.55			0.70		0.85		0.95	
Peak Reverse Current	I _{RRM1}	mA	V _{RM} =V _{RRM}	Ta=25°C	0.5				0.1				
	Ta=100°C			10				5.0					
Thermal Resistance(Typical)	R _{θJA}	°C/ W	Between junction and ambient		101								
	R _{θJL}		Between junction and terminal		9								
Juction Capacitance (Typical)	Cj	pF	Measured at 1MHZ and Applied Reverse Voltage of 4.0 V.D.C		146			117		85		66	57

Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on FR4 PCB double sided copper mini pad

Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

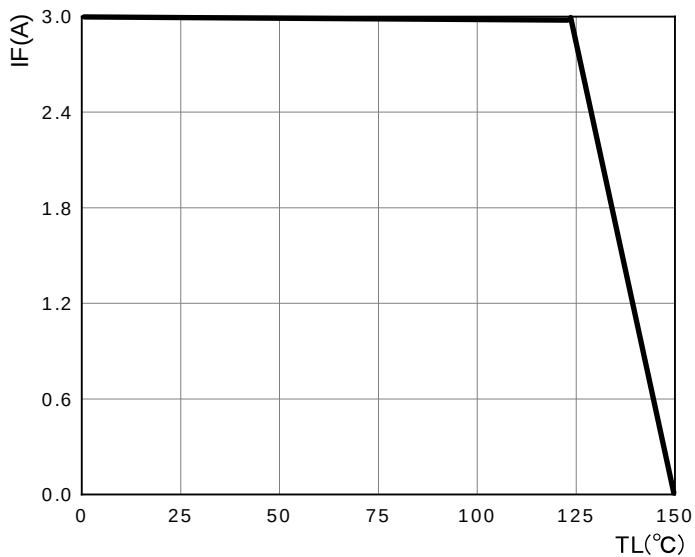
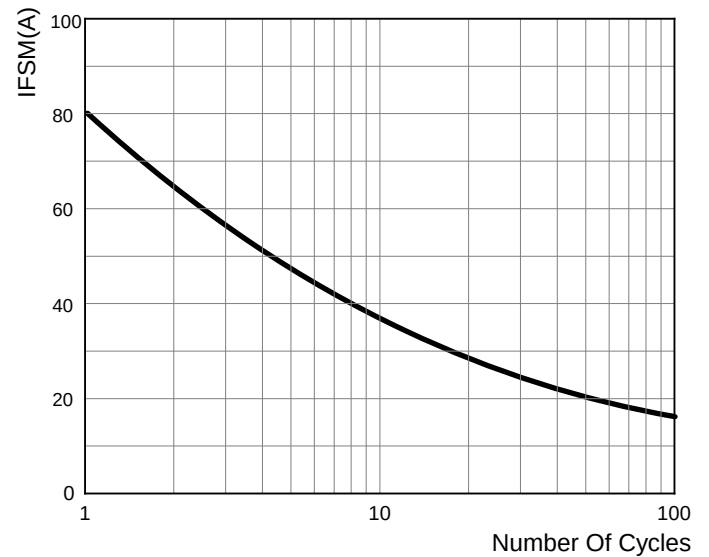
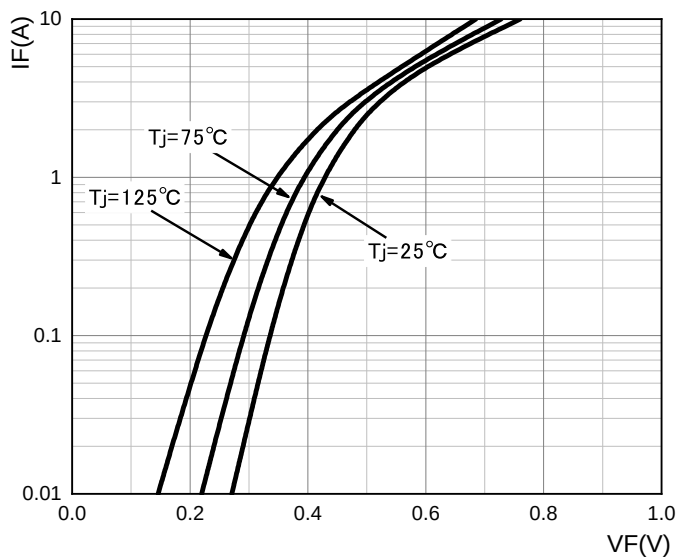


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



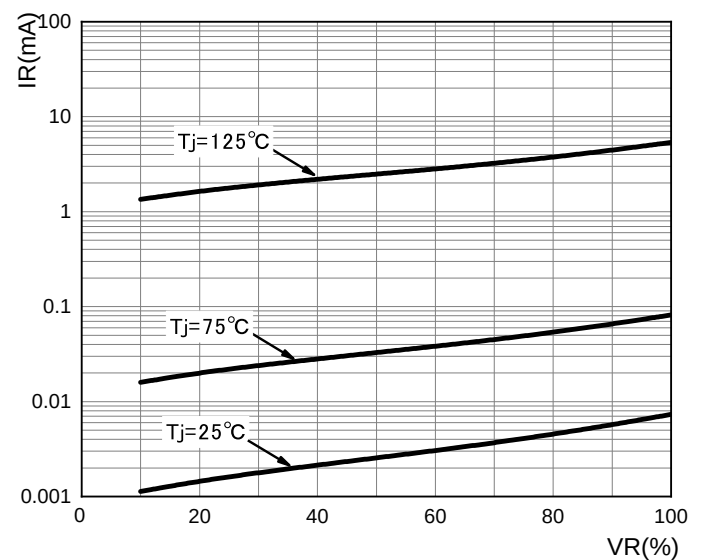
SS32F-SS34F

FIG.3: TYPICAL FORWARD CHARACTERISTICS



SS32F-SS34F

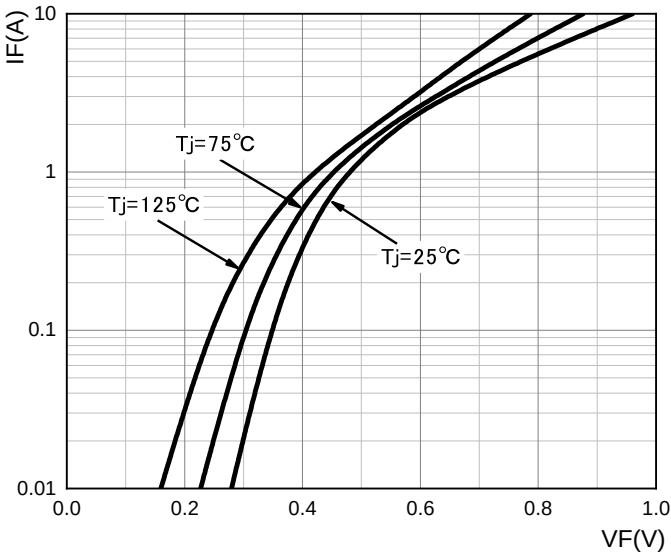
FIG.4: TYPICAL REVERSE CHARACTERISTICS



Typical Characteristics

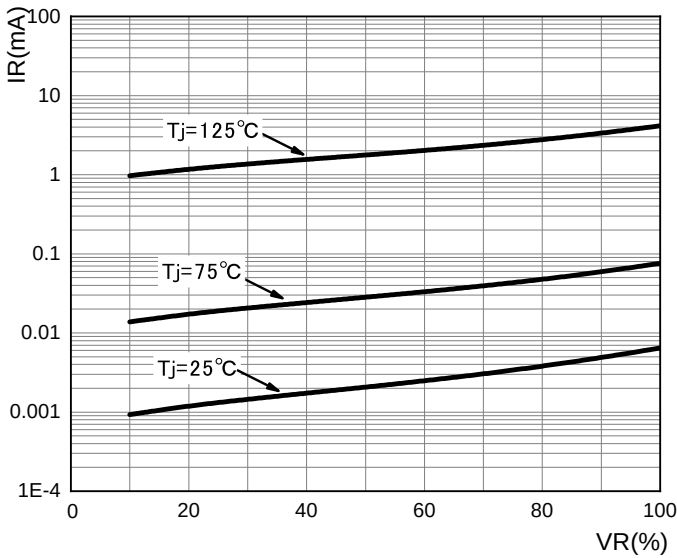
SS35F-SS36F

FIG.5: TYPICAL FORWARD CHARACTERISTICS



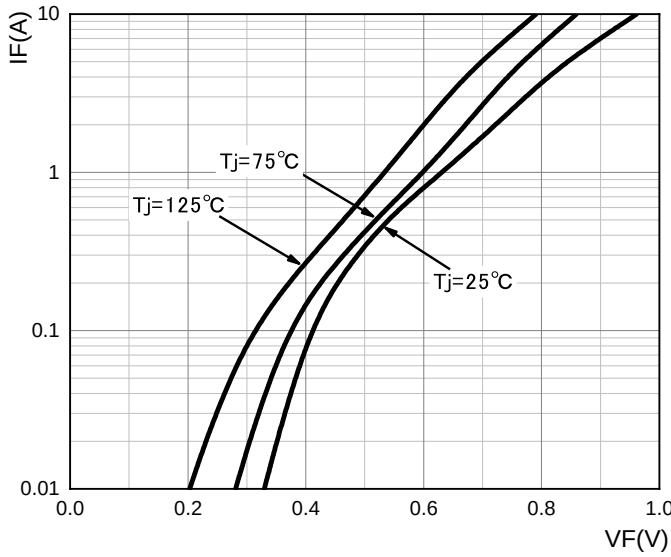
SS35F-SS36F

FIG.6: TYPICAL REVERSE CHARACTERISTICS



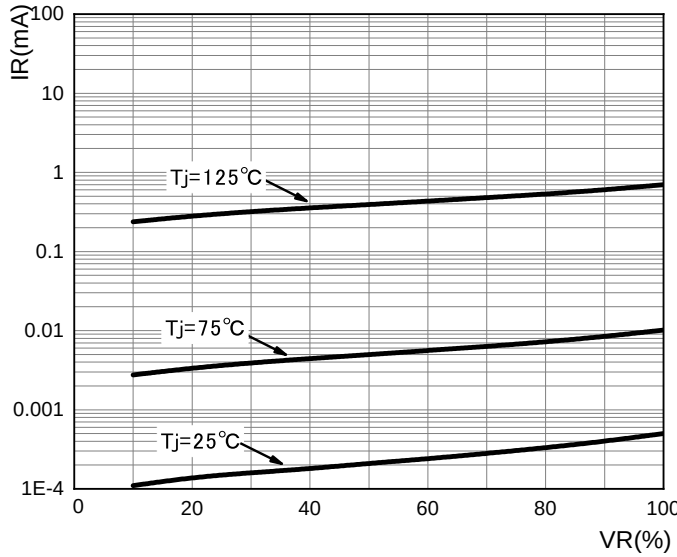
SS38F-SS310F

FIG.7: TYPICAL FORWARD CHARACTERISTICS



SS38F-SS310F

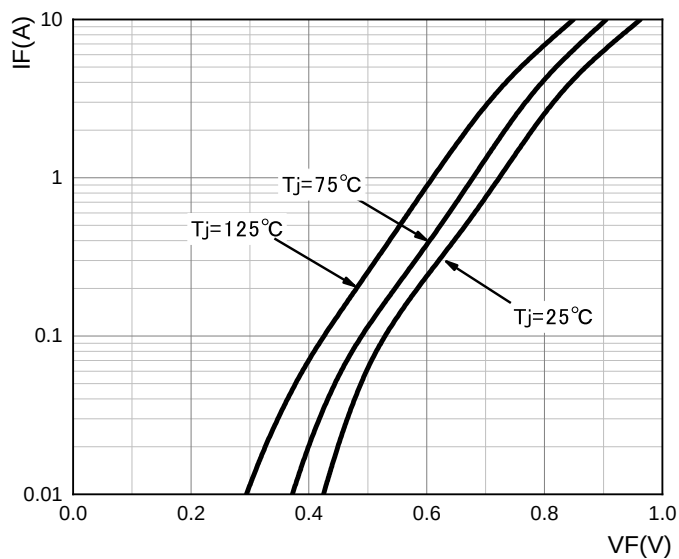
FIG.8: TYPICAL REVERSE CHARACTERISTICS



Typical Characteristics

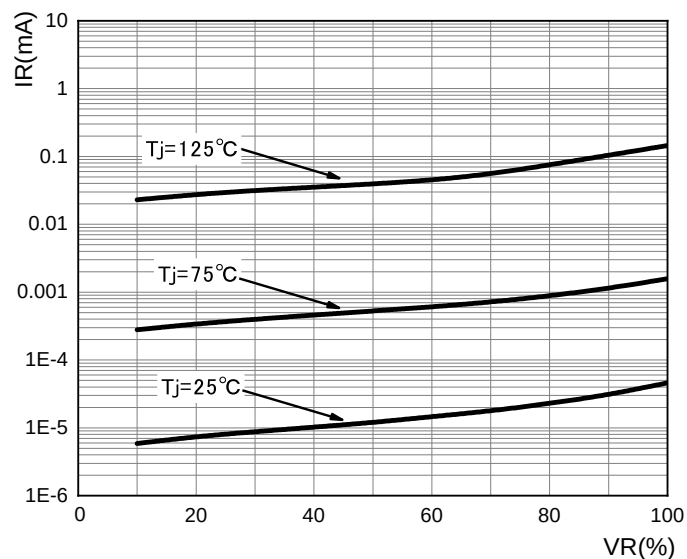
SS315F

FIG.9: TYPICAL FORWARD CHARACTERISTICS



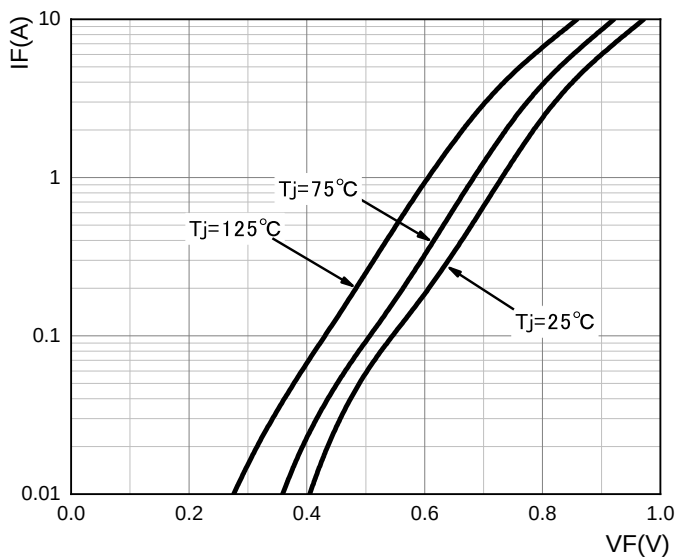
SS315F

FIG.10: TYPICAL REVERSE CHARACTERISTICS



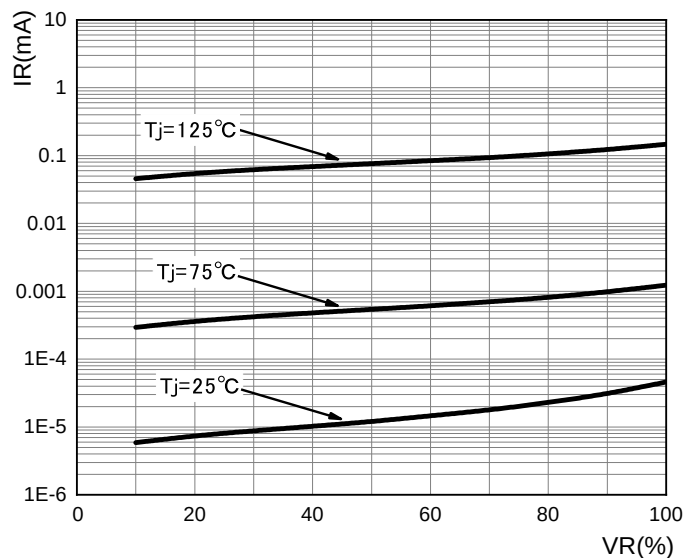
SS320F

FIG.11: TYPICAL FORWARD CHARACTERISTICS

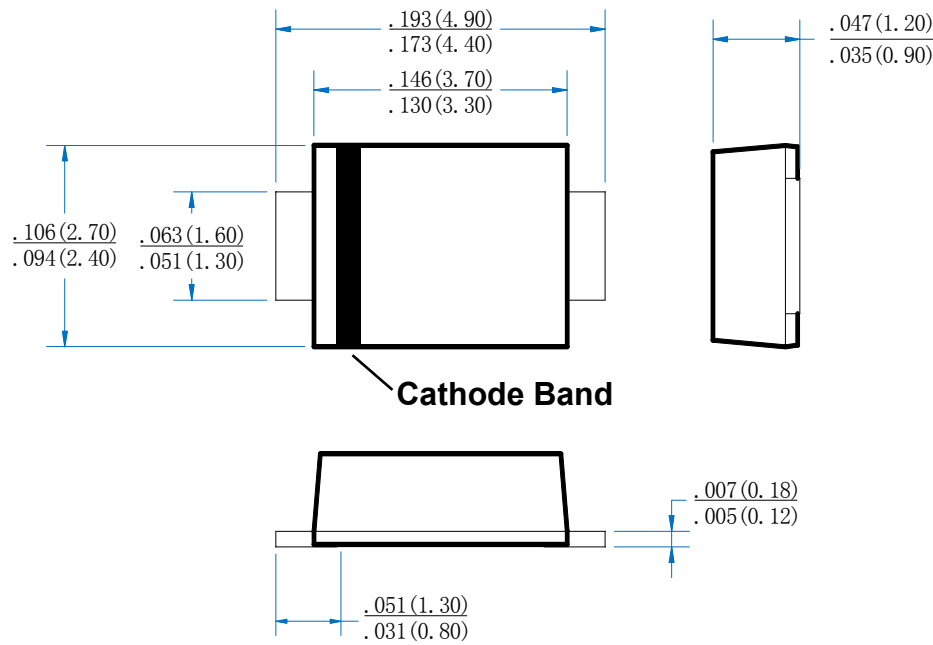


SS320F

FIG.12: TYPICAL REVERSE CHARACTERISTICS

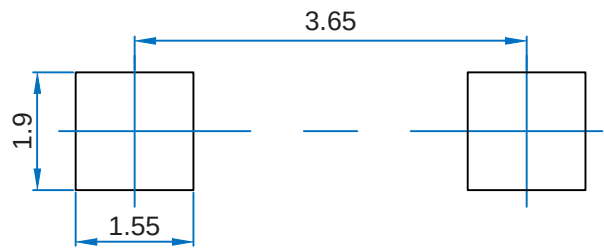


SMAF Package outline Dimensions



Dimensions in inches and (millimeters)

SMAF Suggested pad Layout



- Note:**
1. Controlling dimension: in millimeters.
 2. General tolerance: $\pm 0.05\text{mm}$.
 3. The pad layout is for reference purposes only.