

SMAF Plastic-Encapsulate Diodes

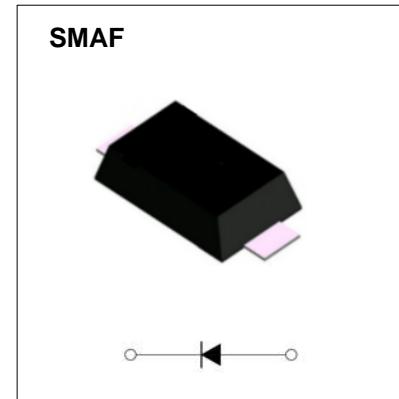
Schottky Rectifier

Features

- I_o 2A
- VRMM 20V-200V
- Low forward voltage drop
- High surge current capability
- Metal silicon junction, majority carrier conduction

Mechical Data

- Case: SMAF molded plastic
- Molding compound: UL flammability classification rating 94V-0
- Terminals: Solder plated, solderable per MIL- STD-202, Method 208
- Polarity: Color band denotes cathode end



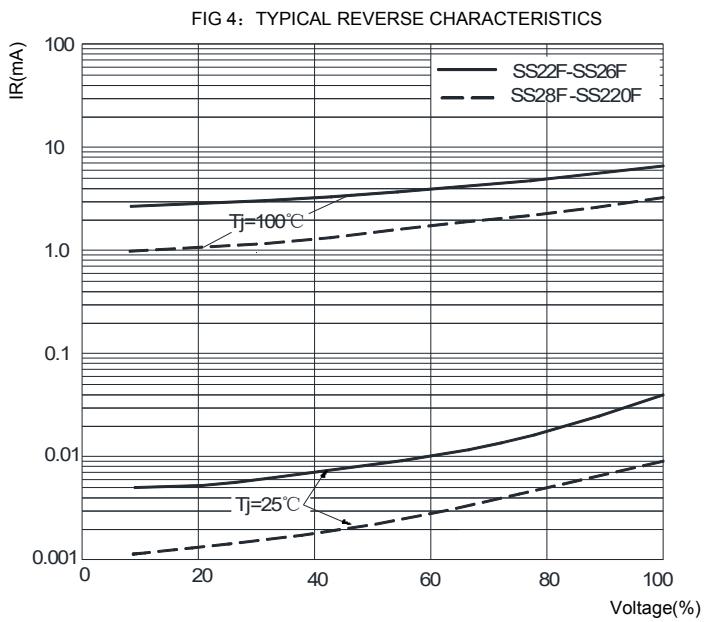
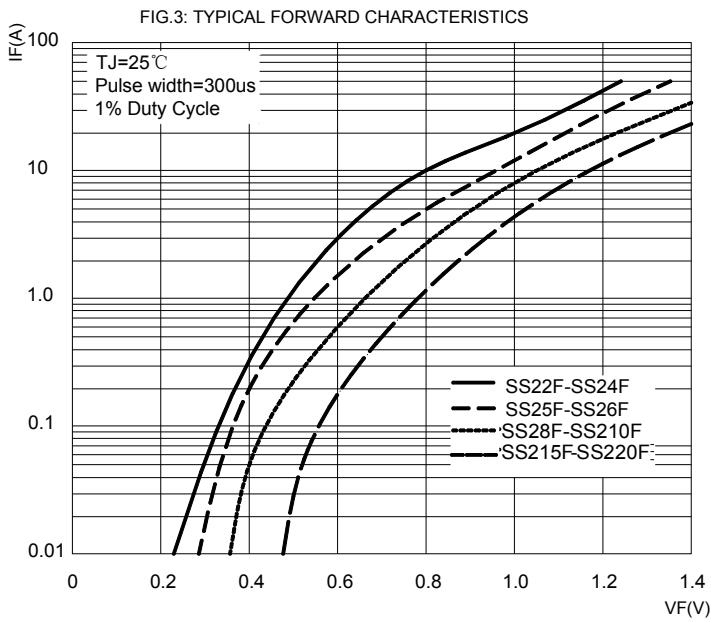
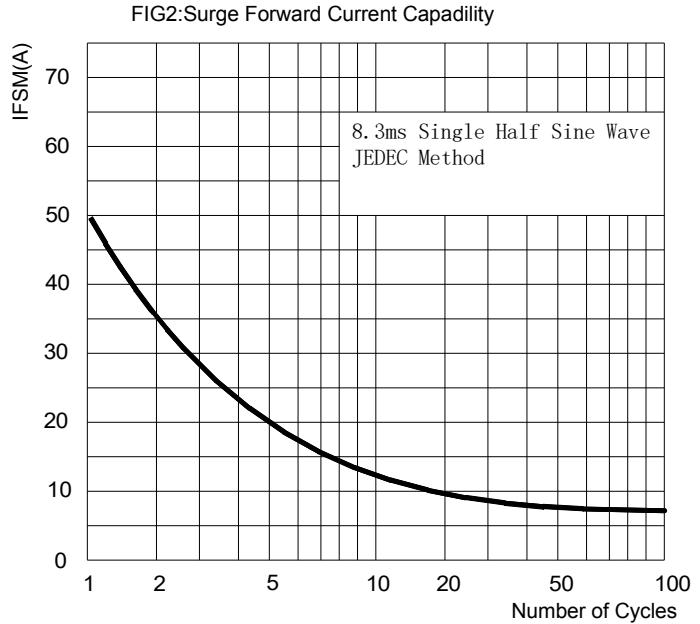
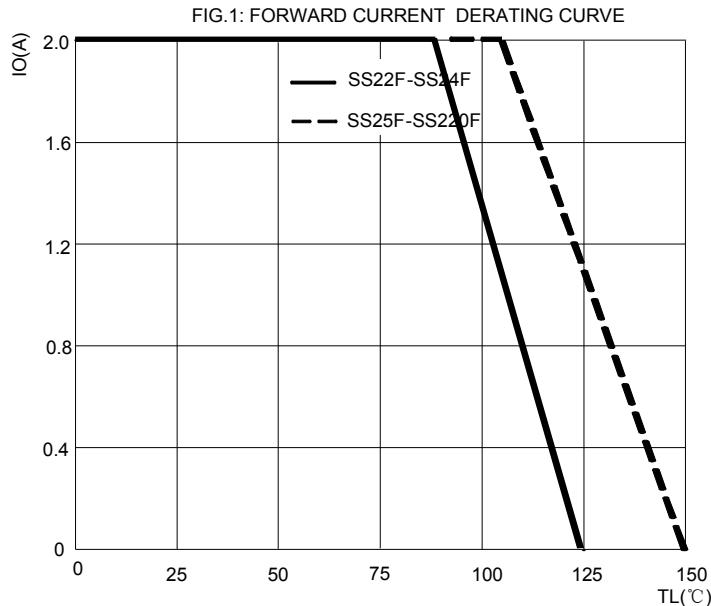
Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Test Conditions	SS 22F	SS 23F	SS 24F	SS 25F	SS 26F	SS 28F	SS 210F	SS 215F	SS 220F
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
Maximum DC Blocking Voltage	V_{DC}	V		20	30	40	50	60	80	100	150	200
Average Forward Current	$I_{F(AV)}$	A	60HZ Half-sine wave, Resistance load, TL(Fig.1)							2.0		
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave ,1 cycle , $T_a = 25^\circ C$							50		
Junction Temperature	T_J	°C				-55~+125				-55~+150		
Storage Temperature	T_{STG}	°C								-55 ~ +150		

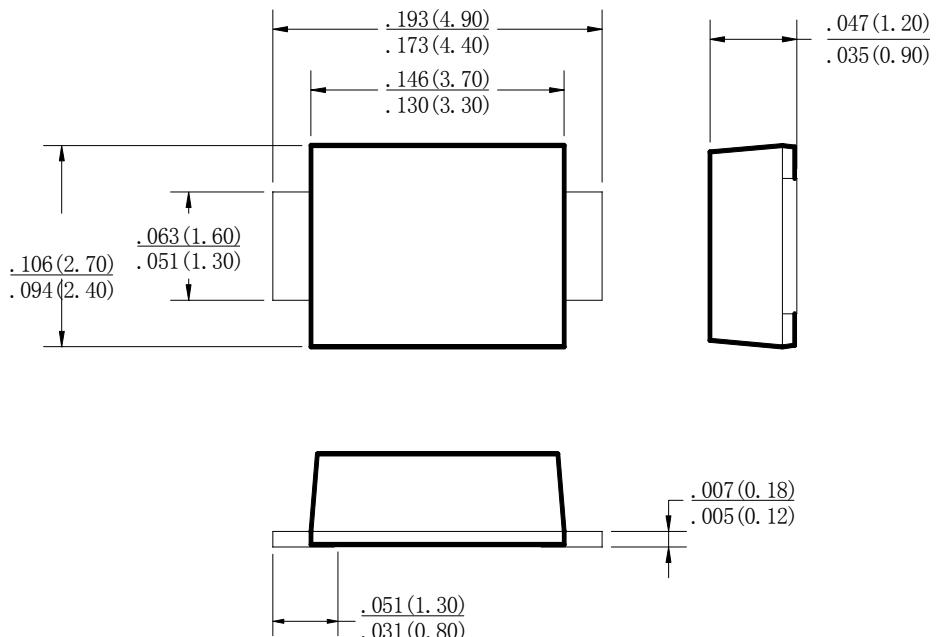
Electrical Characteristics ($T_a=25^\circ C$ Unless otherwise specified)

Item	Symbol	Unit	Test Condition	SS 22F	SS 23F	SS 24F	SS 25F	SS 26F	SS 28F	SS 210F	SS 215F	SS 220F	
Peak Forward Voltage	V_F	V	$I_F=2.0A$		0.55		0.70		0.85		0.95		
Peak Reverse Current	I_{RRM1}	mA	$V_{RM}=V_{RRM}$	$T_a = 25^\circ C$		0.5					0.1		
	I_{RRM2}				$T_a = 100^\circ C$		10				5.0		
Thermal Resistance(Typical)	$R_{\theta J-A}$	°C/W	Between junction and ambient				78						
	$R_{\theta J-L}$		Between junction and terminal				20						
	$R_{\theta J-C}$		Between junction and case				18						
Junction Capacitance (Typical)	C_J	pF	Measured at 1.0MHz and applied reverse voltage of 4.0 volts.		103		95		60		32		

Typical Characteristics

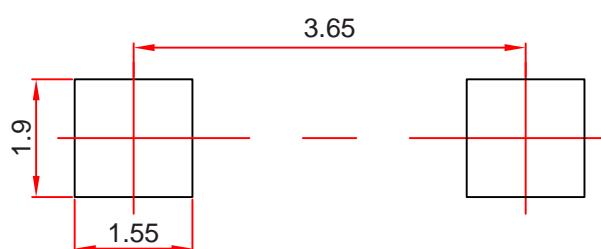


SMAF Package Outline Dimensions



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.

Ordering Information

Part Number	Package	Shipping Quantity
SS22F-SS220F	SMAF	3000/tape&Reel

Marking Diagram



X:From 2 To 20

Reel Taping Specifications For Surface Mount Devices- SMAF

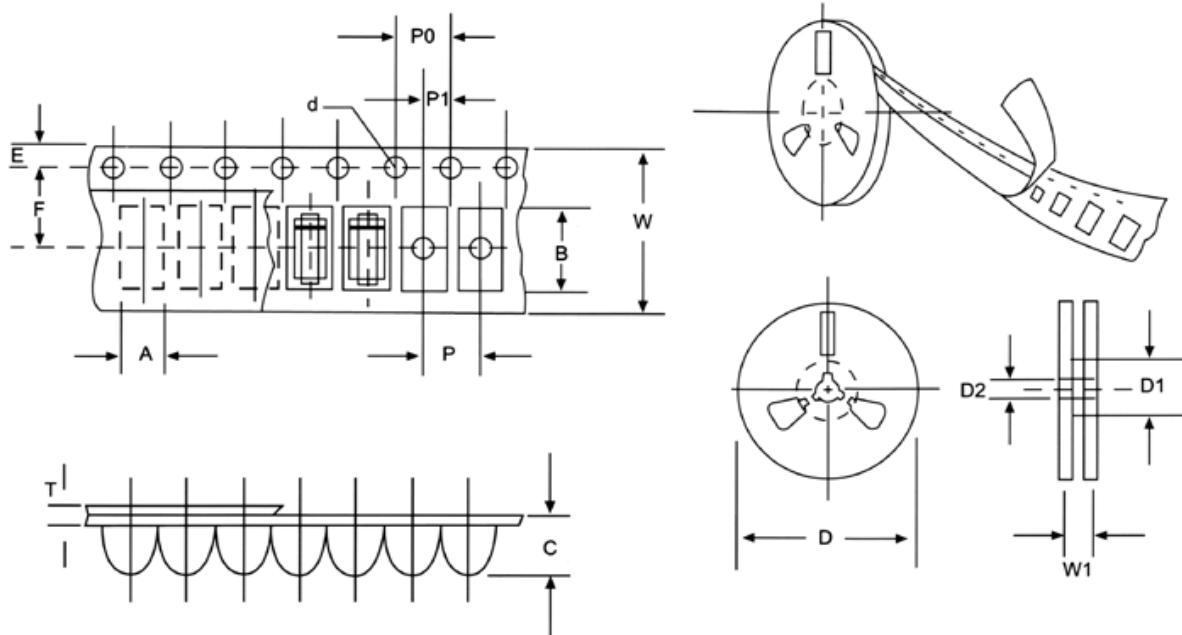


FIG : CONFIGURATION OF SURFACE MOUNTED DEVICES TAPING

ITEM	SYMBOL	SMAF mm(inch)
Carrier width	A	2.83+0.1(0.112+0.004)
Carrier length	B	4.90+0.1(0.193+0.004)
Carrier depth	C	1.45+0.1(0.057+0.004)
Sprocket hole	d	1.55+0.05(0.061+0.002)
Reel outside diameter	D	178+2.0(7.0+0.079)
Reel inner diameter	D1	54±1.0(2.13±0.039)
Feed hole diameter	D2	13+0.5(0.512+0.020)
Stroket hole position	E	1.75+0.1(0.069+0.004)
Punch hole position	F	5.5+0.05(0.217+0.002)
Punch hole pitch	P	4.0+0.1(0.157+0.004)
Sprocket hole pitch	P0	4.0+0.1(0.157+0.004)
Embossment center	P1	2.0+0.1(0.079+0.004)
Total tape thickness	T	0.23-0.29(0.009-0.011)
Tape width	W	12.0+0.1(0.472+0.004)
Reel width	W1	16.8+2.0(0.661+0.079)

NOTE:Devices are packde in accordance with EIA standard RS-481-A and specification given above.