



**Schottky Diodes**  
**Reverse Voltage-40to200v**  
**Forward current-3A**

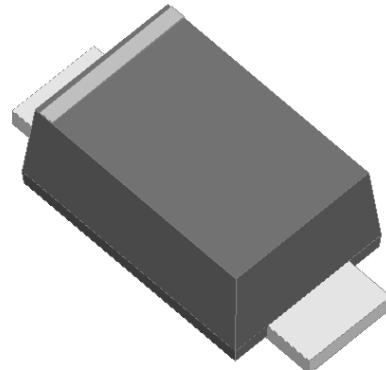
### Features

Schottky chip

Ideal for surface mounted applications

Low forward voltage drop, Low power loss, high efficiency

Plastic Case Material has UL Flammability



### Mechanical Data

Package: SMAF

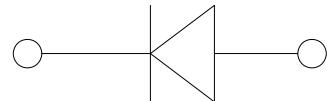
Terminals: Tin Plated leads, solderable per

Mil-STD-750 Method 2026

Polarity: As marked

Molding compound meets UL 94 V-0 flammability rating,

ROHS-compliant



### Maximum Ratings (Ta=25°C Unless otherwise specified)

Type Number	SYMBOL	SS34F	SS36F	SS38F	SS310F	SS315F	SS320F	Umit							
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	40	60	80	100	150	200	V							
Maximum RMS Voltage	V <sub>RMS</sub>	28	42	56	70	105	140	V							
Maximum DC Blocking Voltage	V <sub>DC</sub>	40	60	80	100	150	200	V							
Maximum Average Forward Rectified Current	I <sub>O(AV)</sub>	3.0						A							
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	60.0						A							
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, T <sub>j</sub> =25°C		120.0						A							
Current squared time @1ms≤t≤8.3ms T <sub>j</sub> =25°C, Rating of per diode	I <sup>2</sup> t	14.9						A <sup>2</sup> S							
Maximum Forward Voltage at 3.0A DC	V <sub>FM</sub>	0.55	0.75	0.85	0.92			V							
Maximum Reverse Current TA = 25°C	IR	0.1		0.05				mA							
at Rated DC Blocking Voltage TA = 100°C		20		10				mA							
Typical Thermal Resistance	R <sub>QJA</sub>	65.0						°C/W							
Operating Junction Temperature Range	T <sub>J</sub>	-55 to +150						°C							
Storage Temperature Range	T <sub>STG</sub>	-55 to +150						°C							



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SS34F THRU SS320F

FIG. 1 MAXIMUM AVERAGE FORWARD CURRENT DERATING

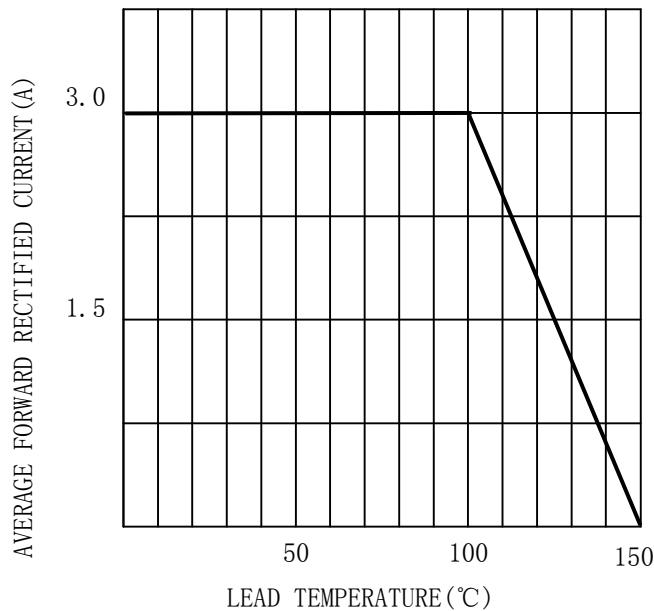


FIG. 3 MAXIMUM NON-REPETITIVE SURGE CURRENT

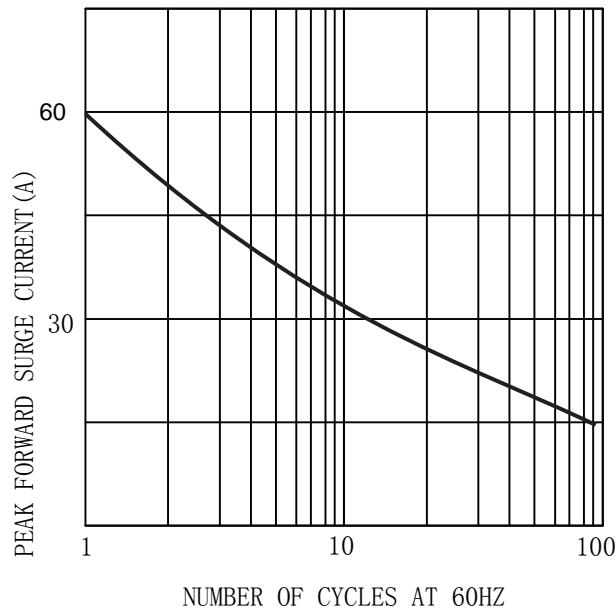


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

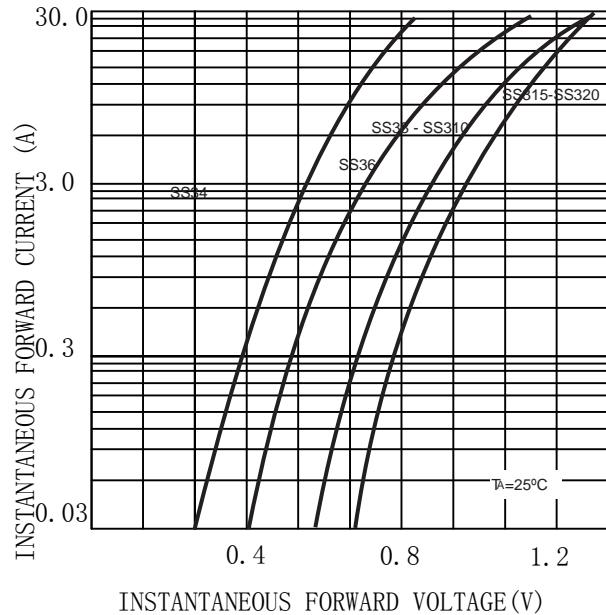
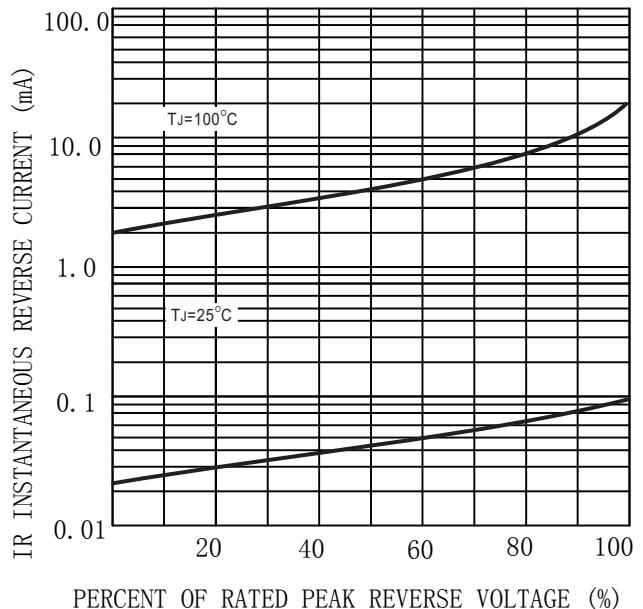


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)





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## MARKING INFORMATION



= Logo

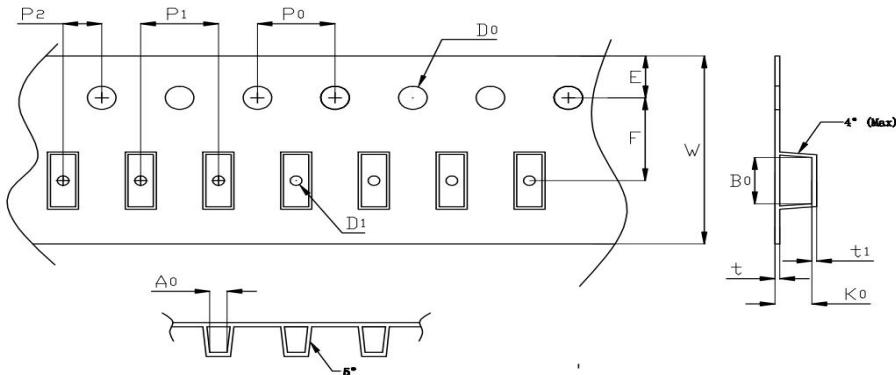
\*\*\*\* = Date Code Marking

SS\*\* = Marking Code

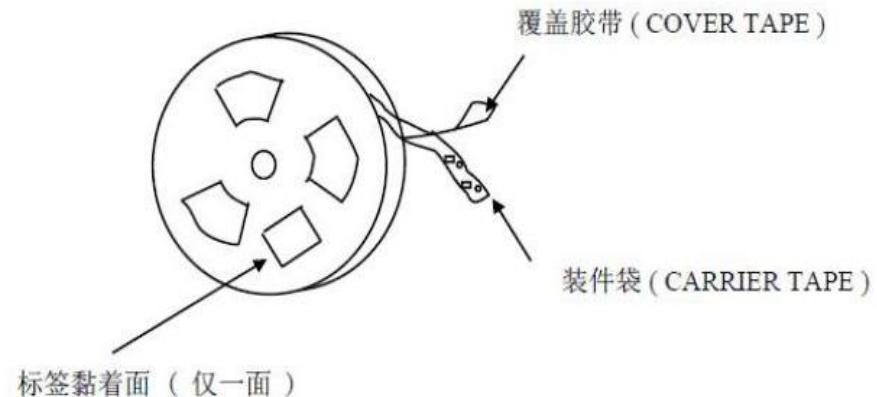
Print according to customer request

## PACKING REQUIREMENTS

- Carrier tape packing



Specifications	Carrier tape type	Ao	Bo	Ko	Po	W	t	Explain
SMAF	Anti-static	2.83± 0.10	4.9± 0.10	1.45± 0.05	4.00± 0.10	12.0± 0.10	0.23± 0.05	



DEVICE TYPE	Tape width	13"Reel			7"Reel		
		Q'TY/REEL (pcs)	BOX/CAR TOON	Q'TY/REEL (pcs)	Q'TY/REEL (pcs)	BOX/CAR TOON	Q'TY/REEL (pcs)
SMAF	12mm	10000	20	200000	3000	64	192000



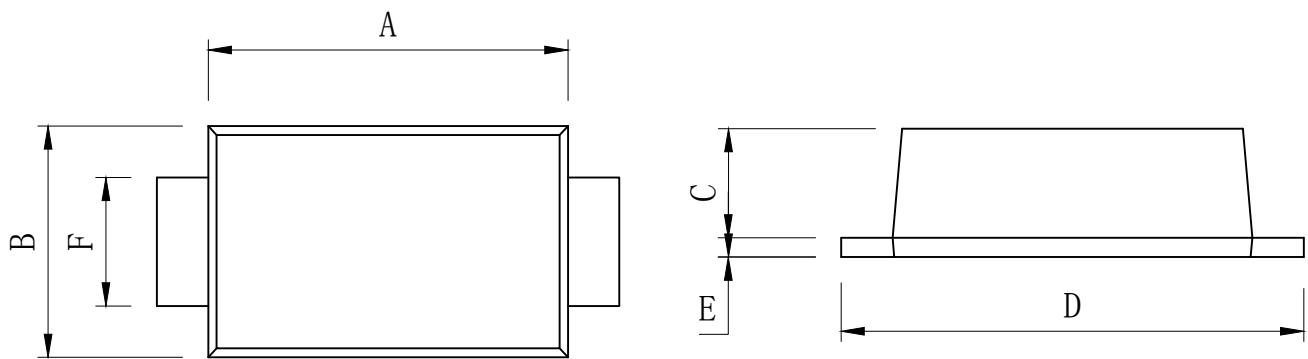
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## Outline Dimensions

### SMAF



SMAF				
DIM	INC HES		MM	
	MIN	MAX	MIN	MAX
A	0.13	0.15	3.2	3.8
B	0.09	0.11	2.3	2.7
C	0.03	0.05	0.8	1.2
D	0.16	0.20	4	5
E	/	0.01	/	0.3
F	0.04	0.08	1	2



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