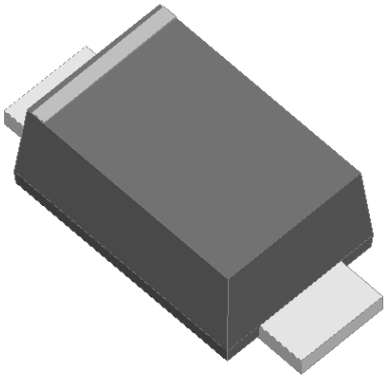
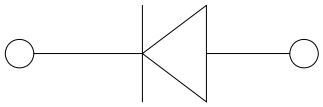
四川旭茂微科技有限公司
Sichuan Xu Mao Micro Technology Co.,Ltd

SS54F THRU SS520F

Schottky Diodes
Reverse Voltage-40to200v
Forward current-5A





Features

Schottky chip
Ldeal 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℃ Unless otherwise specified)

Type Number	SYMBOL	SS54F	SS56F	SS58F	SS510F	SS515F	SS520F	Umit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	60	80	100	150	200	V
Maximum RMS Voltage	V_{RMS}	28	42	56	70	105	140	V
Maximum DC Blocking Voltage	V_{DC}	40	60	80	100	150	200	V
Maximum Average Forward Rectified Current	$IO_{(AV)}$	5.0						A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	100.0						A
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃		200.0						A
Current squared time @1ms≤t8.3≤ms Tj=25℃， Rating of per diode	I^2t	41.5						A^2S
Maximum Forward Voltage at 5.0A DC	V_{FM}	0.55	0.75	0.85		0.92		V
Maximum Reverse Current TA = 25℃	IR	0.1		0.05				mA
at Rated DC Blocking Voltage TA = 100℃		20		10				mA
Typical Thermal Resistance	R_{QJA}	65.0						℃/W
Operating Junction Temperature Range	T_J	—55to+150						℃
Storage Temperature Range	T_{STG}	—55to+150						℃

FIG.1MAXIMUM AVERAGE FORWARD CURRENT DERATING

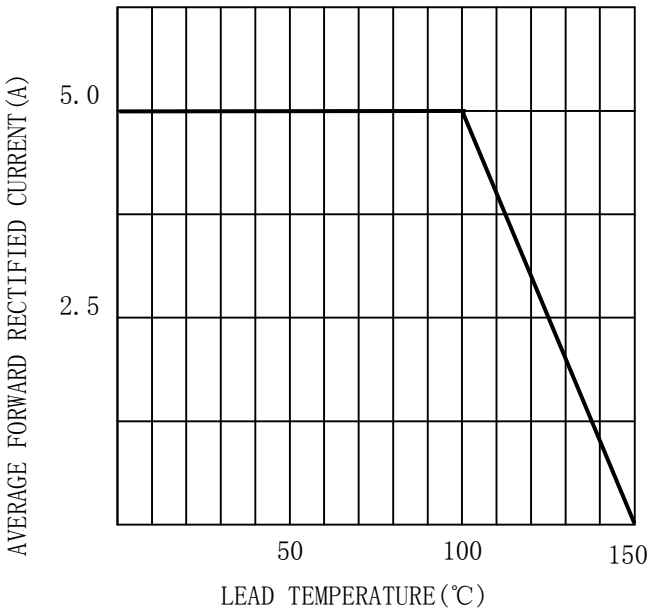


FIG.2TYPICAL FORWARD CHARACTERISTICS

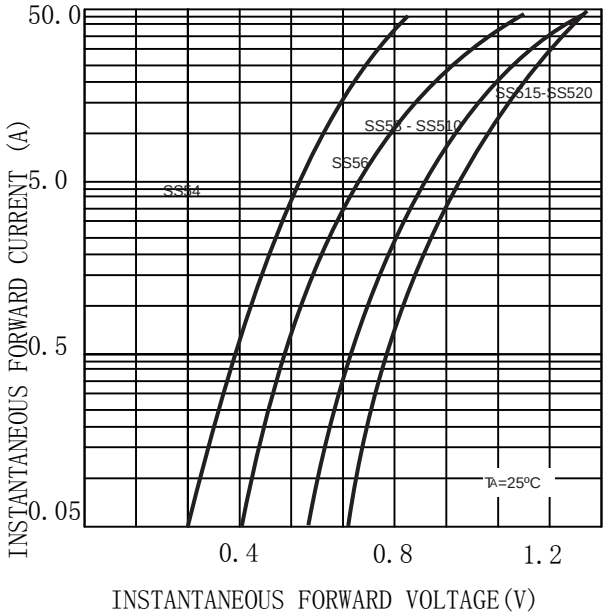


FIG.3MAXIMUM NON-REPEITIVE SURGE CURRENT

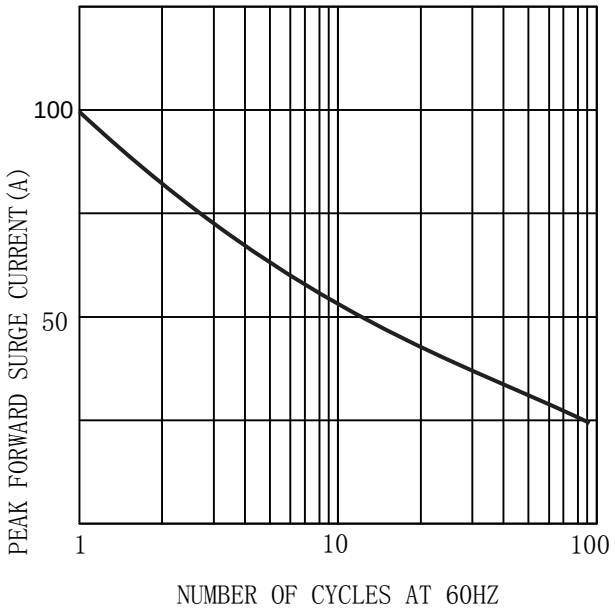
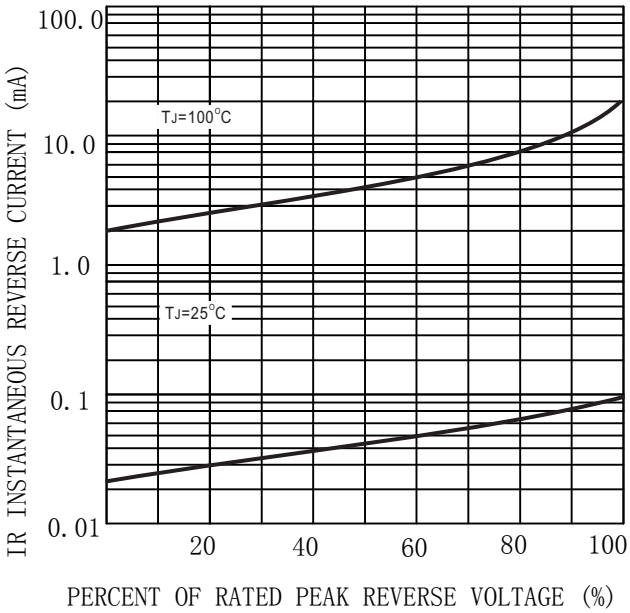


FIG. 4 TYPICAL REVERSE CHARACTERISTICS(per element)



MARKING INFORMATION



= Logo

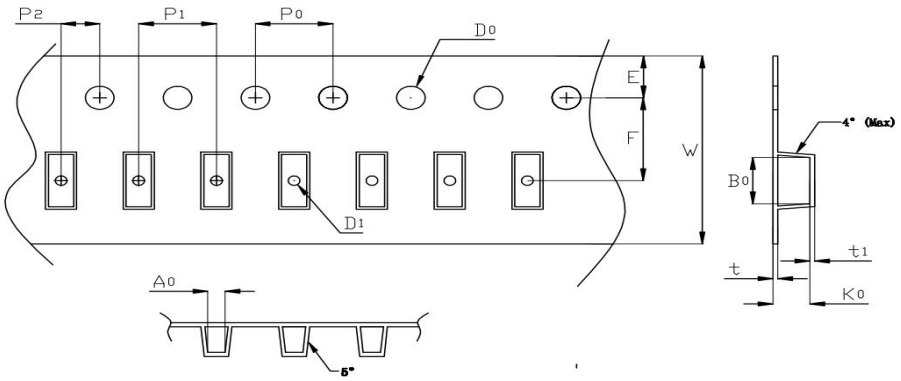
**** = Date Code Marking

SS**= Marking Code

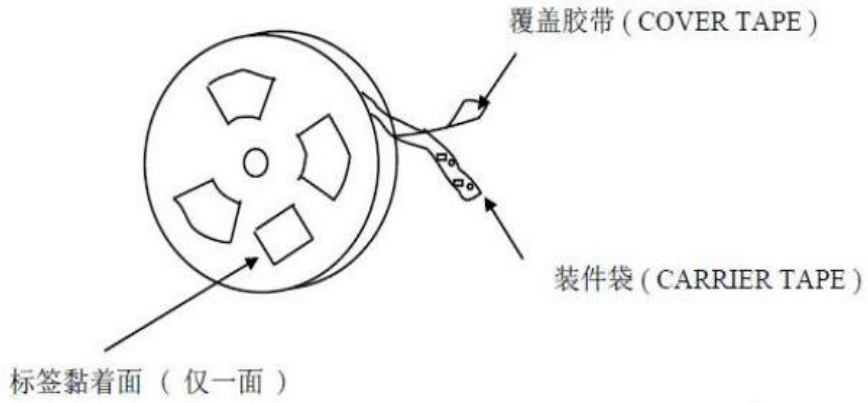
Print according to customer request

PACKING REQUIRMENTS

- Carrier tape packing



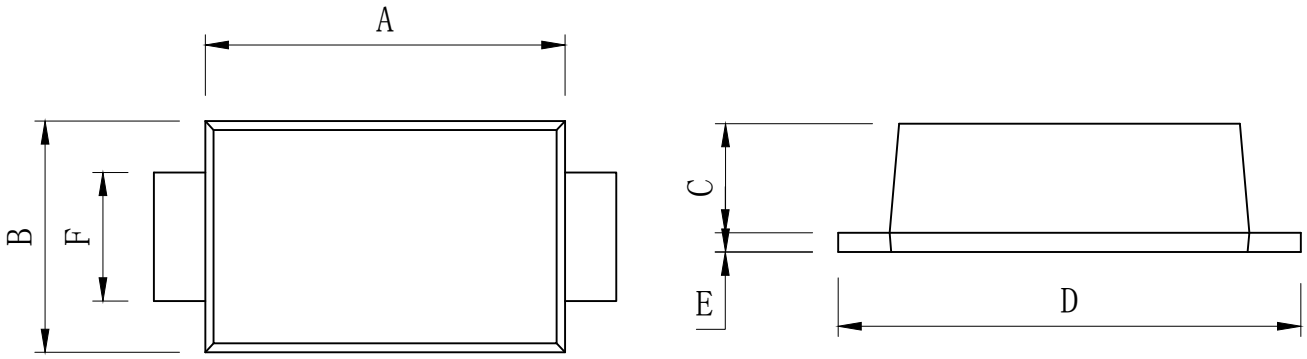
Specifications	Carrier tape type	Ao	Bo	Ko	Po	W	t	Exiplain
SMAF	Anti-static	2.83± 0.10	4.9± 0.10	1.45± 0.05	4.00± 0.10	12.0± 0.10	0.23± 0.05	



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

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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