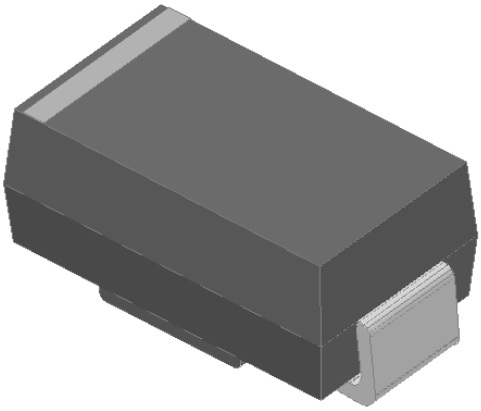
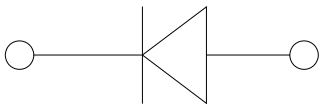
四川旭茂微科技有限公司
Sichuan Xu Mao Micro Technology Co.,Ltd

SS54LB THRU SS520LB

Surface mount LVF Schottky diode
Reverse Voltage40V-200v
Forward current-5A





Features

LVF Schottky chip

Low VF， Low power losses, high efficiency

Ldeal for surface mounted applications

Plastic Case Material has UL Flammability

Mechanical Data

Package: SMB

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	SS 54LB	SS 545LB	SS56LB	SS 58LB	SS 510LB	SS 515LB	SS 520LB	Umit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	45	60	80	100	150	200	V
Maximum RMS Voltage	V_{RMS}	28	31.5	42	56	70	105	140	V
Maximum DC Blocking Voltage	V_{DC}	40	45	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}	0.45		0.55	0.65		0.85		V
Maximum Reverse Current TA = 25℃	IR	0.2			0.1				mA
at Rated DC Blocking Voltage TA = 80 ℃		50.0			20.0				
Typical Thermal Resistance Between junction and	R_{QJa}	65.0							℃/W
Operating Junction Temperature Range	T_J	—55to+150							℃
Storage Temperature Range	T_{STG}	—55to+150							℃

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FIG.1MAXIMUM AVERAGE FORWARD CURRENT DERATING

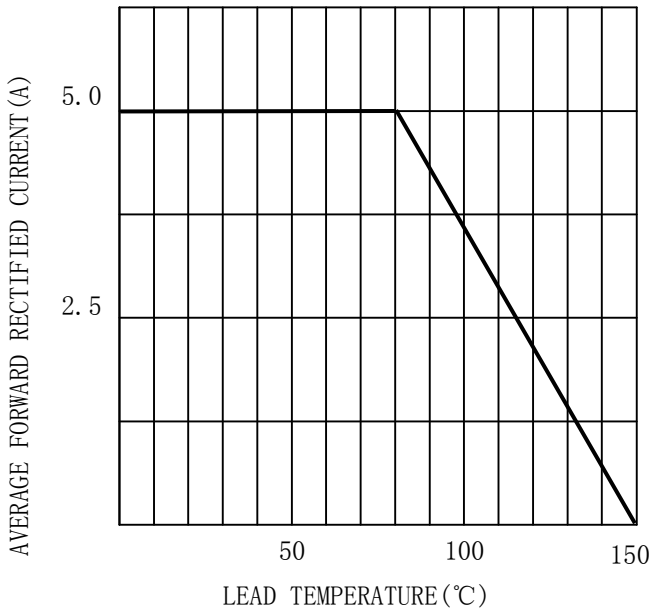


FIG.2TYPICAL FORWARD CHARACTERISTICS

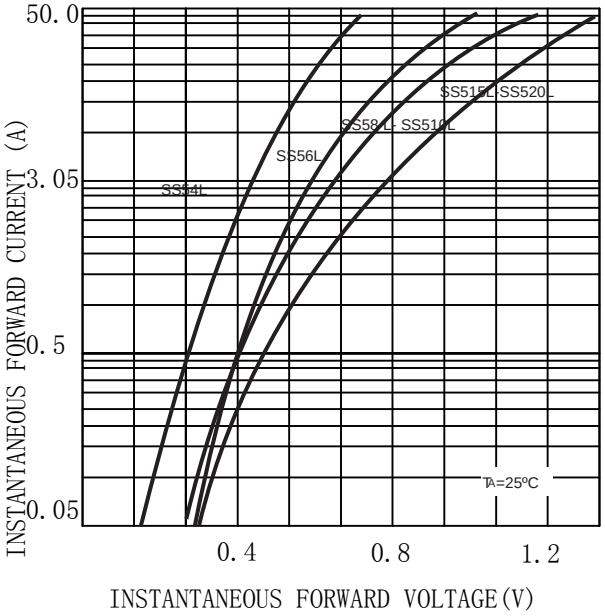


FIG.3MAXIMUM NON-REPEITIVE SURGE CURRENT

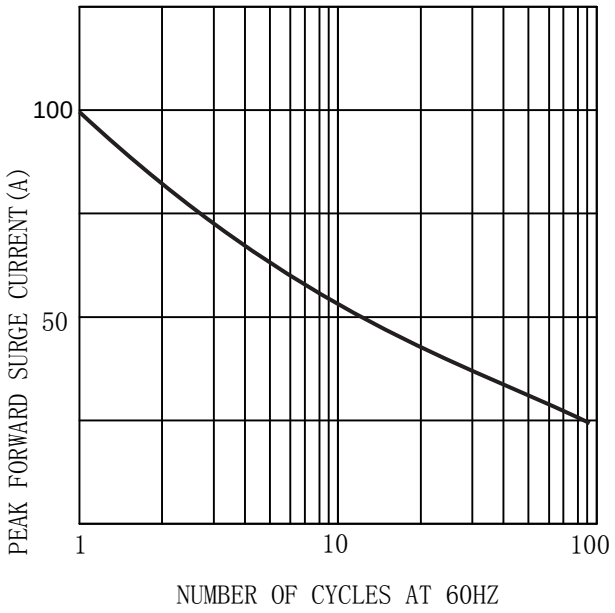
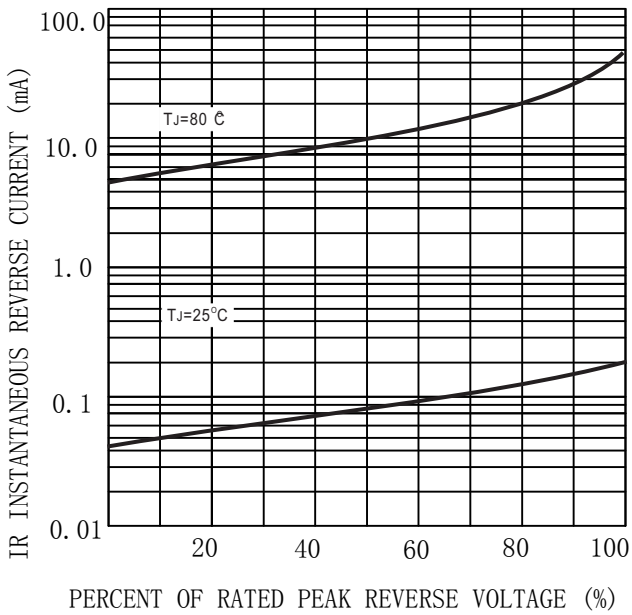


FIG. 4 TYPICAL REVERSE CHARACTERISTICS(per element)



MARKING INFORMATION

= Logo

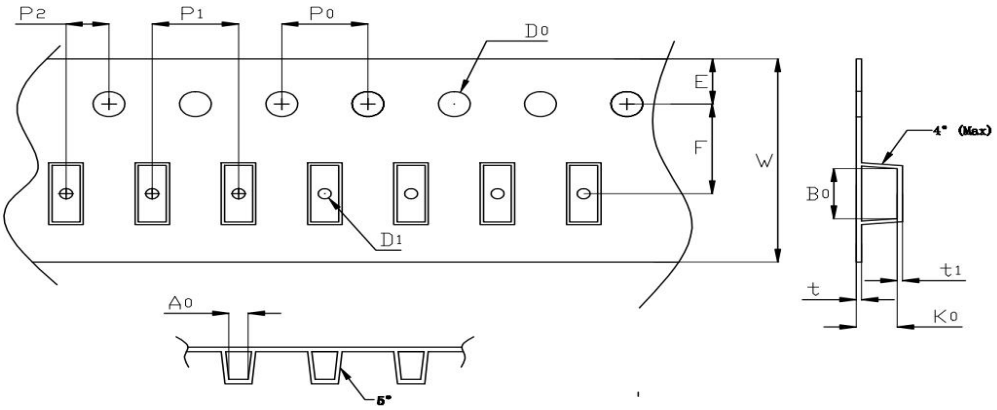
**** = Date Code Marking

SS**= Marking Code

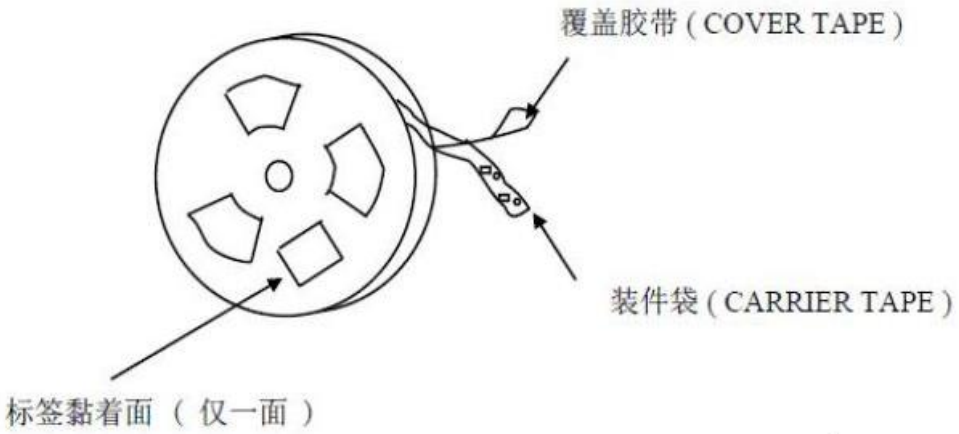
Print according to customer request

PACKING REQUIRMENTS

- Carrier tape packing



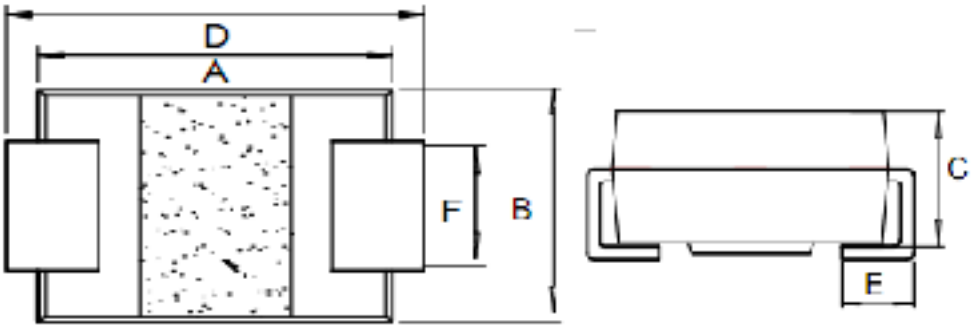
Specifications	Carrier tape type	Ao	Bo	Ko	Po	W	t	Exiplain
SMB	Anti-static	3.8± 0.10	5.4± 0.10	2.45± 0.10	4.00± 0.10	12.0± 0.10	0.23± 0.05	



DEVICE TYPE	Tape width	13"Reel		
		Q'TY/REEL (pcs)	BOX/CARTOON	Q'TY/REEL (pcs)
SMB	12mm	3000	20	60000

Outline Dimensions

SMB



SMB				
DIM	INC HES		MM	
	MIN	MAX	MIN	MAX
A	0.16	0.19	4	4.8
B	0.13	0.15	3.3	3.9
C	0.08	0.10	2	2.5
D	0.18	0.22	4.5	5.5
E	0.03	0.06	0.7	1.5
F	0.06	0.10	1.5	2.5

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