



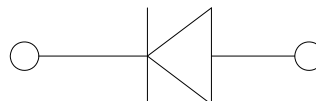
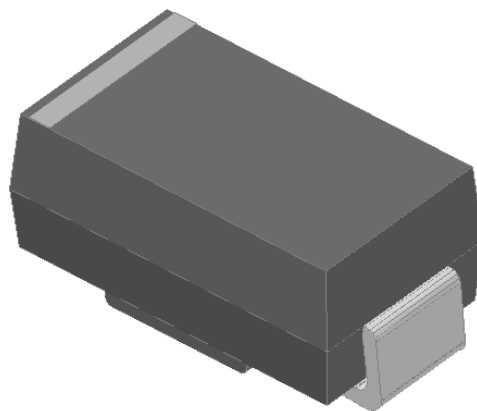
Schottky Diodes
Reverse Voltage-40to200v
Forward current-5A

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: 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°C Unless otherwise specified)

Type Number	SYMBOL	SS54	SS56	SS58	SS510	SS5150	SS520	Unit
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≤t≤8.3≤ms Tj=25℃, Rating of per diode	I²t	41.5						A²S
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. 1 MAXIMUM AVERAGE FORWARD CURRENT DERATING

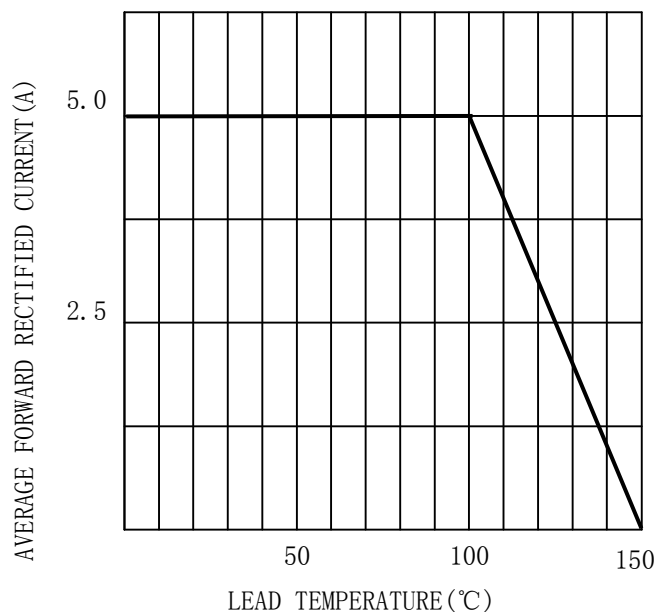


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

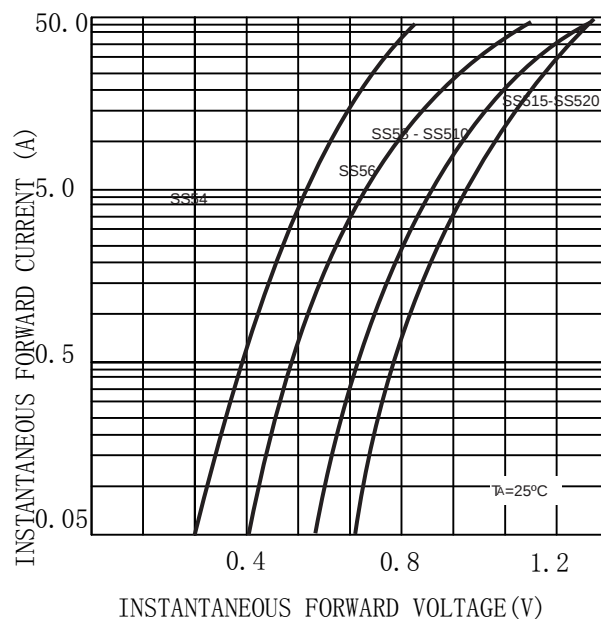


FIG. 3 MAXIMUM NON-REPEITIVE SURGE CURRENT

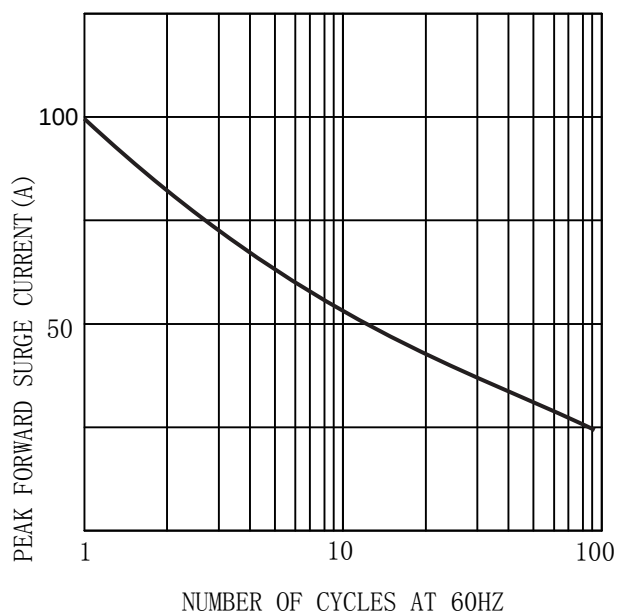
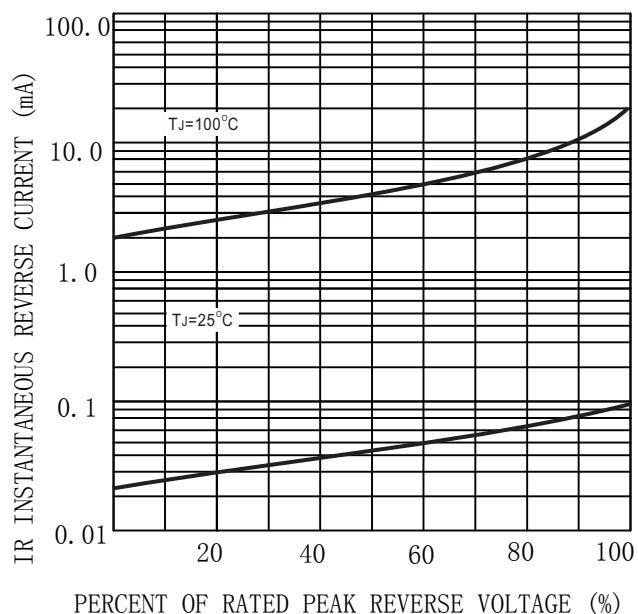


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)





MARKING INFORMATION



 = Logo

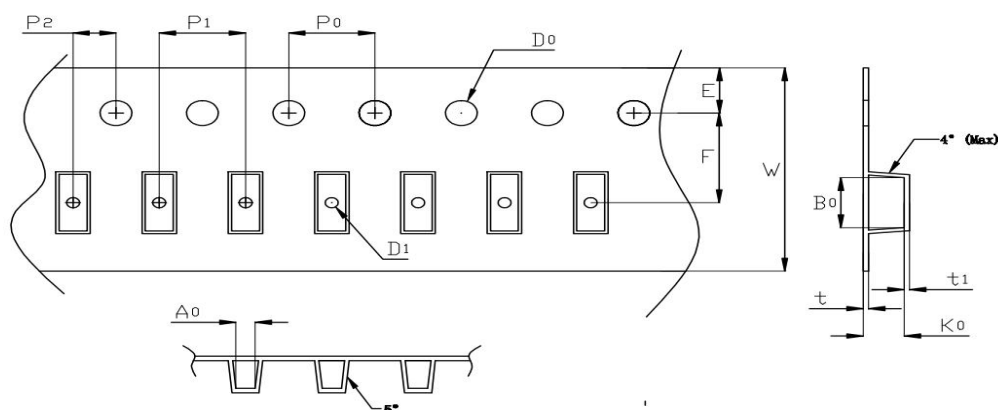
**** = Date Code Marking

SS**= Marking Code

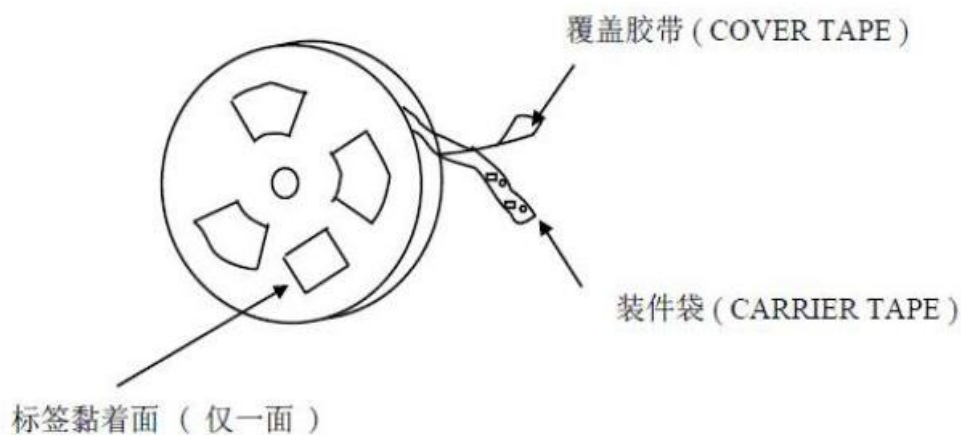
Print according to customer request

PACKING REQUIRMENTS

• Carrier tape packing



Specificati ons	Carrier tape type	Ao	Bo	Ko	Po	W	t	Explain
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	

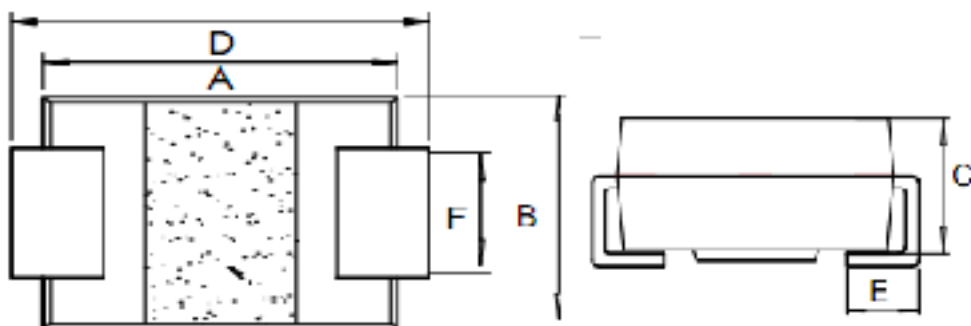


DEVICE TYPE	Tape width	13"Reel		
		Q'TY/REEL (pcs)	BOX/CAR TOON	Q'TY/REEL (pcs)
SMB	12mm	3000	20	60000



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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