



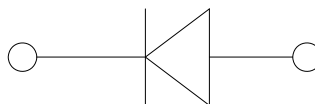
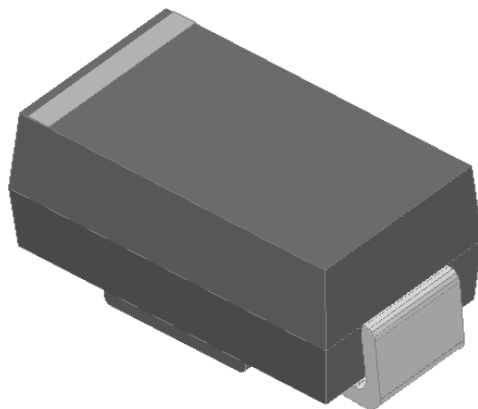
**Schottky Diodes**  
**Reverse Voltage-40to200v**  
**Forward current-5A**

**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: SMC  
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	SS54C	SS56C	SS58C	SS510C	SS515C	SS520C	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	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 <sub>FM</sub>	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 <sub>QJA</sub>	48.0						℃/W
Operating Junction Temperature Range	T <sub>J</sub>	—55to+150						℃
Storage Temperature Range	T <sub>STG</sub>	—55to+150						℃



FIG. 1 MAXIMUM AVERAGE FORWARD CURRENT DERATING

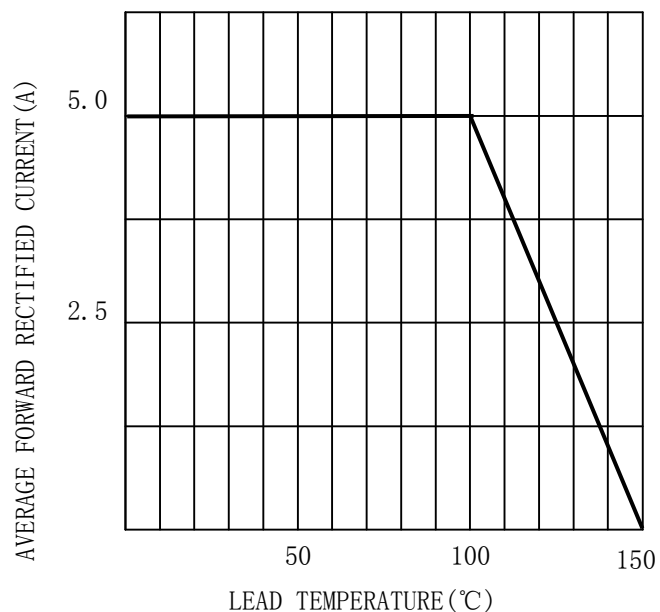


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

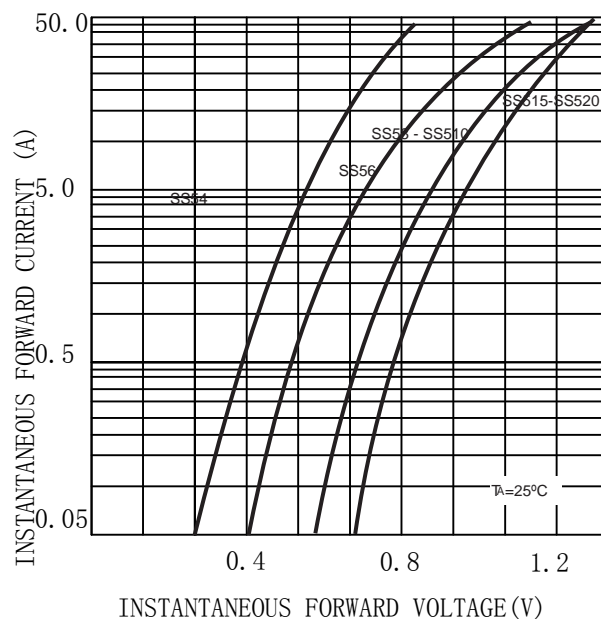


FIG. 3 MAXIMUM NON-REPEITIVE SURGE CURRENT

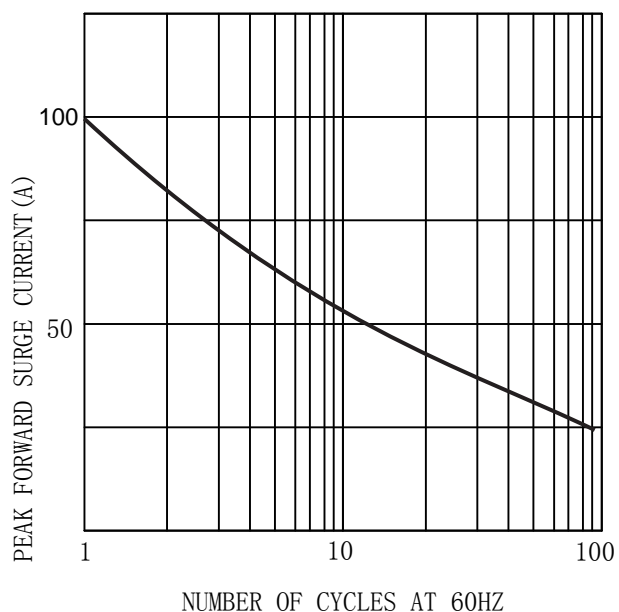
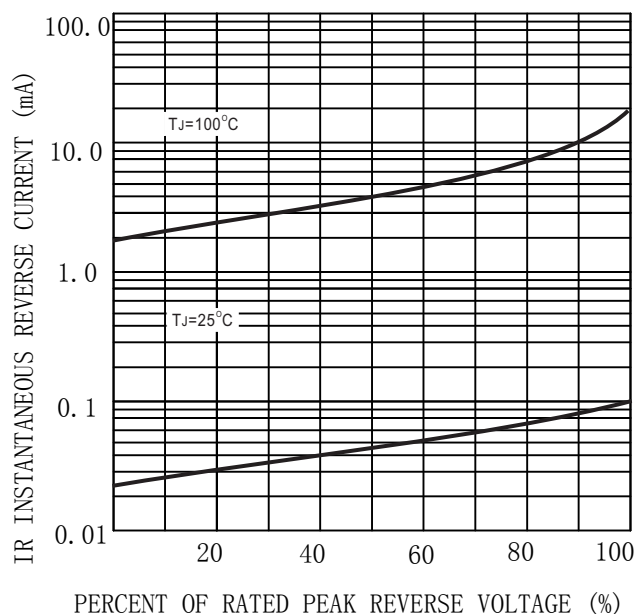



FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)





## MARKING INFORMATION



 = Logo

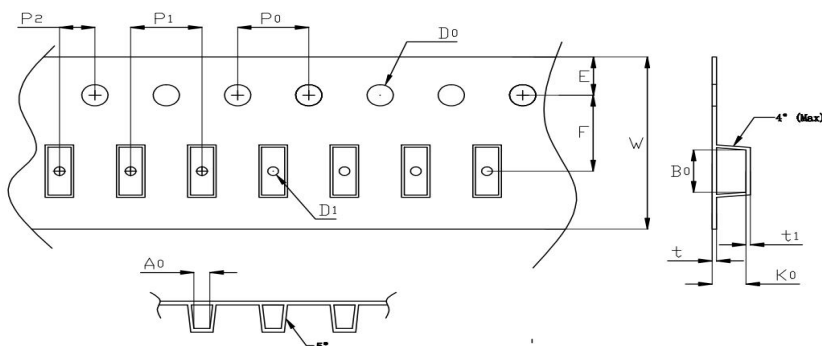
\*\*\*\* = Date Code Marking

SS\*\*\* = Marking Code

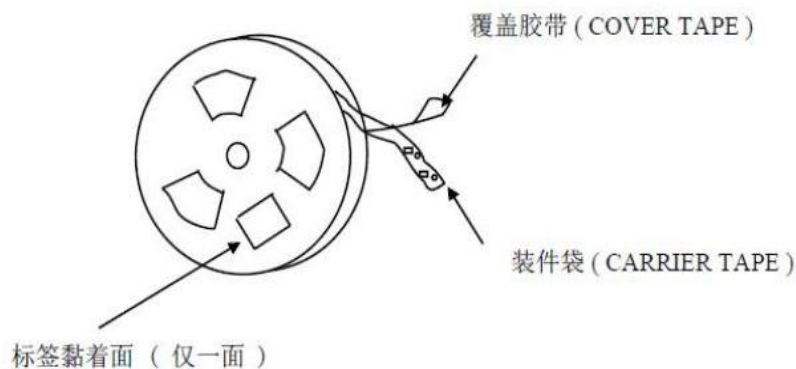
Print according to customer request

## PACKING REQUIRMENTS

### • Carrier tape packing



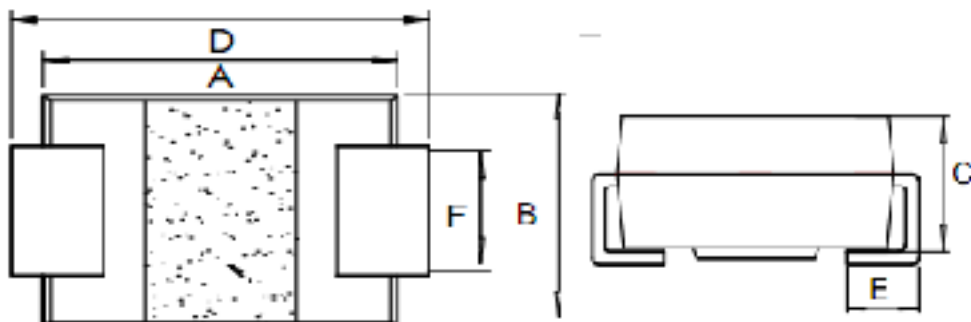
Specifications	Carrier tape type	Ao	Bo	Ko	Po	W	t	Explain
SMC	Anti-static	6.05±0.1	8.31±0.1	2.54±0.1	3.98±0.05	15.95±0.05	0.23±0.02	



DEVICE TYPE	Tape width	'Reel		
		Q'TY/REEL (pcs)	BOX/CARTOON	Q'TY/REEL (pcs)
SMC	13.3	3000	T/R	3000



## Outline Dimensions



SMC				
DIM	INC HES		MM	
	MIN	MAX	MIN	MAX
A	0.26	0.28	6.6	7.1
B	0.22	0.24	5.5	6.2
C	0.08	0.10	2	2.6
D	0.30	0.32	7.7	8.2
E	/	0.06	/	1.5
F	0.11	0.13	2.9	3.2





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