



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

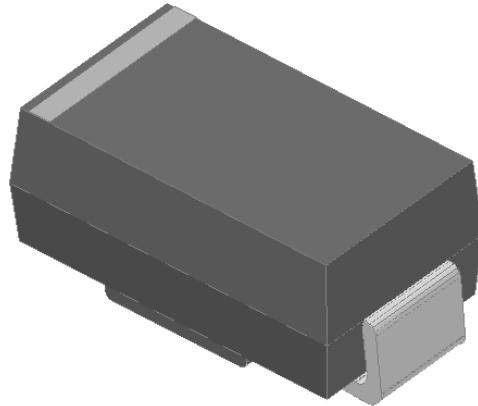
### Features

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

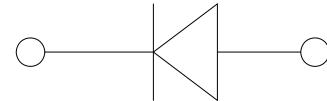
Terminals: Tin Plated leads, solderable per

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	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	$I_{O(AV)}$	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, $T_j=25^\circ C$		200.0						A							
Current squared time @ $1ms \leq t \leq 8.3ms$ $T_j=25^\circ C$ , 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 $TA = 25^\circ C$	IR	0.1		0.05				mA							
at Rated DC Blocking Voltage $TA = 100^\circ C$		20		10				mA							
Typical Thermal Resistance	$R_{QJA}$	48.0						$^\circ C/W$							
Operating Junction Temperature Range	$T_j$	-55 to +150						$^\circ C$							
Storage Temperature Range	$T_{STG}$	-55 to +150						$^\circ C$							



FIG. 1 MAXIMUM AVERAGE FORWARD CURRENT DERATING

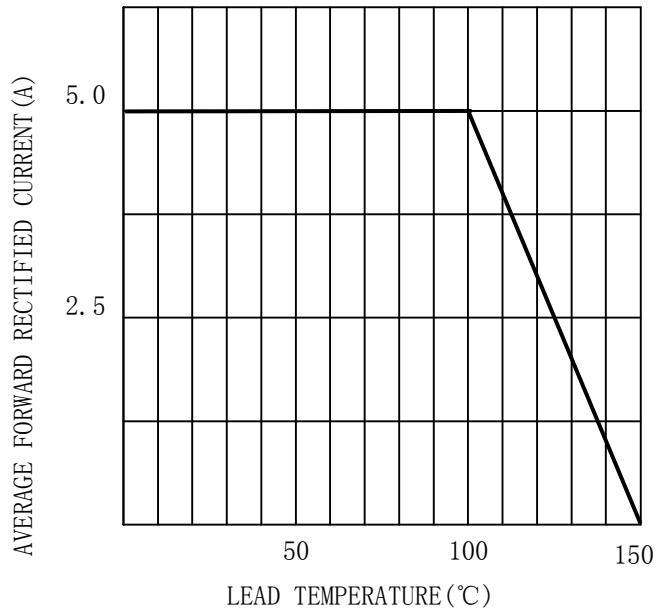


FIG. 3 MAXIMUM NON-REPETITIVE SURGE CURRENT

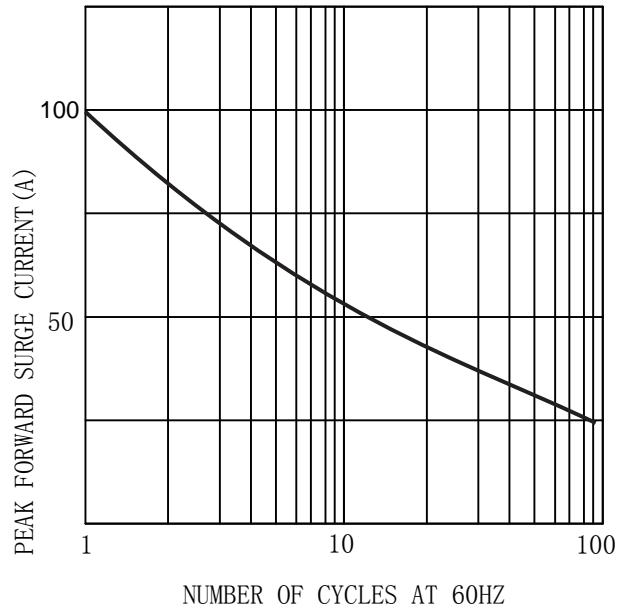


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

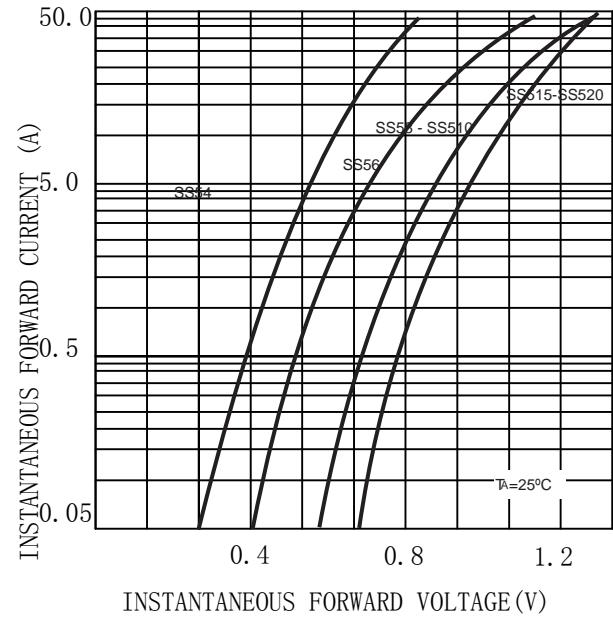
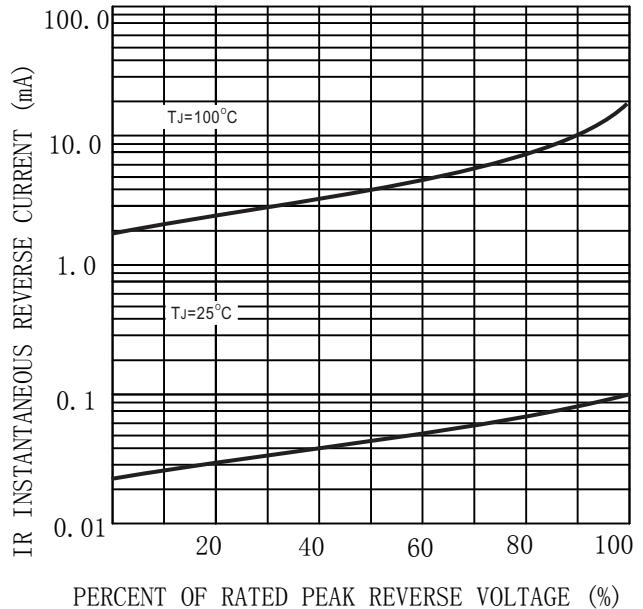


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)





## MARKING INFORMATION



= Logo

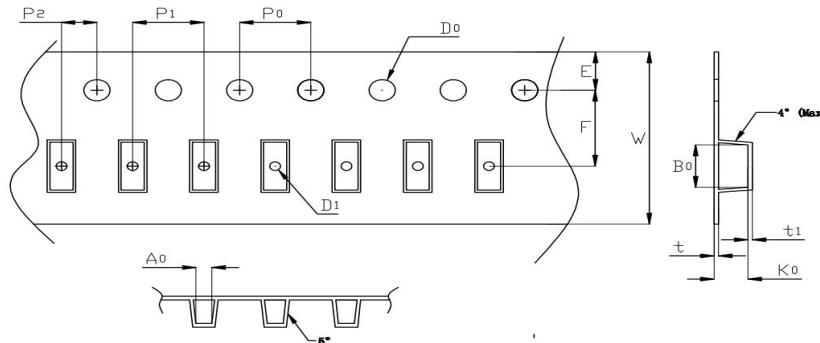
\*\*\*\* = Date Code Marking

SS\*\*\* = Marking Code

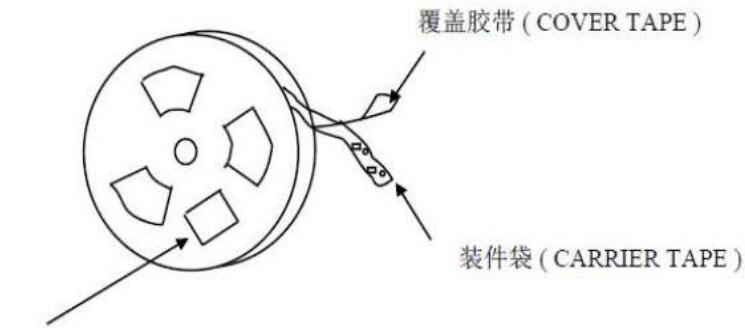
Print according to customer request

## PACKING REQUIREMENTS

- Carrier tape packing



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

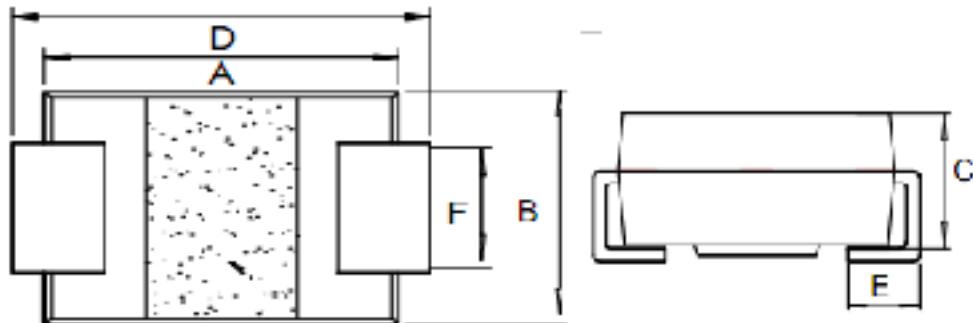


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DEVICE TYPE	Tape width	'Reel		
		Q'TY/REEL (pcs)	BOX/CAR TOON	Q'TY/REEL (pcs)
SMC	13.3	3000	T/R	3000



## 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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