

5 é / Descriptions

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Surface Mount Schottky Barrier Rectifiers, Reverse Voltage y 20 to 200V ,Forward Current:5.0A ,SMB package.

□ ª / Features

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jí D }ož
Low power loss, high efficiency k High forward surge current capability, Lead free in comply with EU RoHS 2011/65/EU directives, For surface mounted applications. HF product.

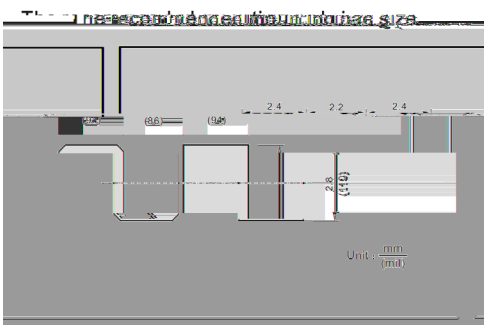
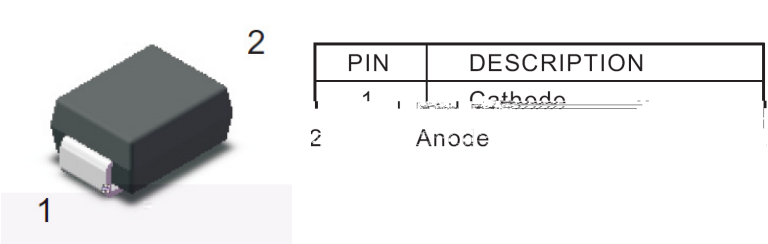
Đ ÷ / Applications

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General purpose.

Ã W] Ô · / Equivalent Circuit



• Ô - æ / Pinning



, M V / Marking

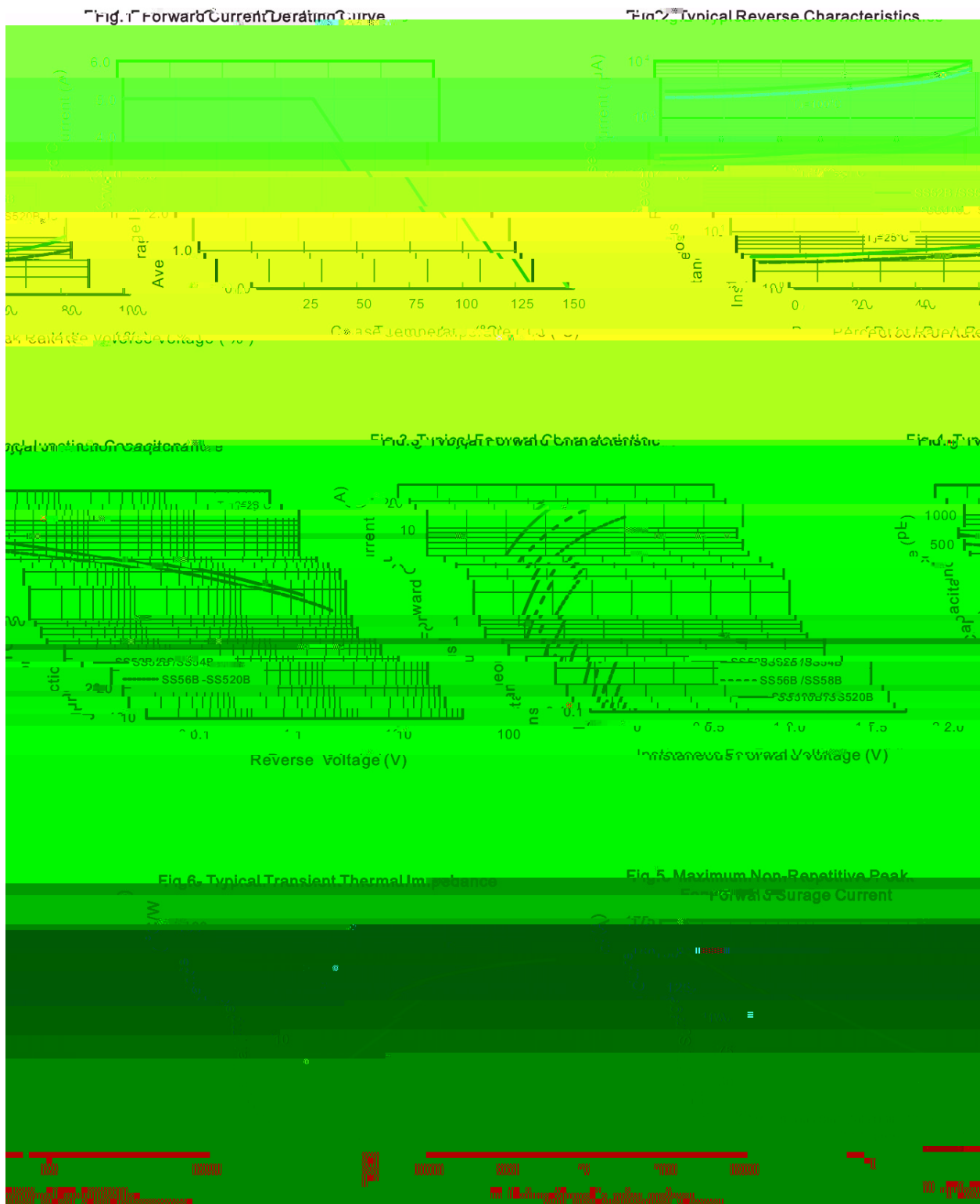
• - ~ ª ¢ož See Marking Instructions.

@ f Parameter	... Z Symbol	$f >$ Rating								% y Unit
		SS52B	SS54B	SS56B	SS58B	SS510B	SS512B	SS515B	SS520B	
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	40	60	80	100	120	150	200	V
Maximum RMS voltage	V _{RMS}	14	28	42	56	70	84	105	140	V
Maximum DC Blocking Voltage	V _{DC}	20	40	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current	I _{F(AV)}	5.0								A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	150								A
Typical Junction Capacitance ^{(E1)E}	C _j	500		300						pF
Typical Thermal Resistance ^{(E2)E}	R _{JA}	50								/W
Operating and Storage Temperature Range	T _J , T _{stg}	-55~+150								

- 1) Measured at 1MHz and applied reverse voltage of 4 V D.C.
- 2) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

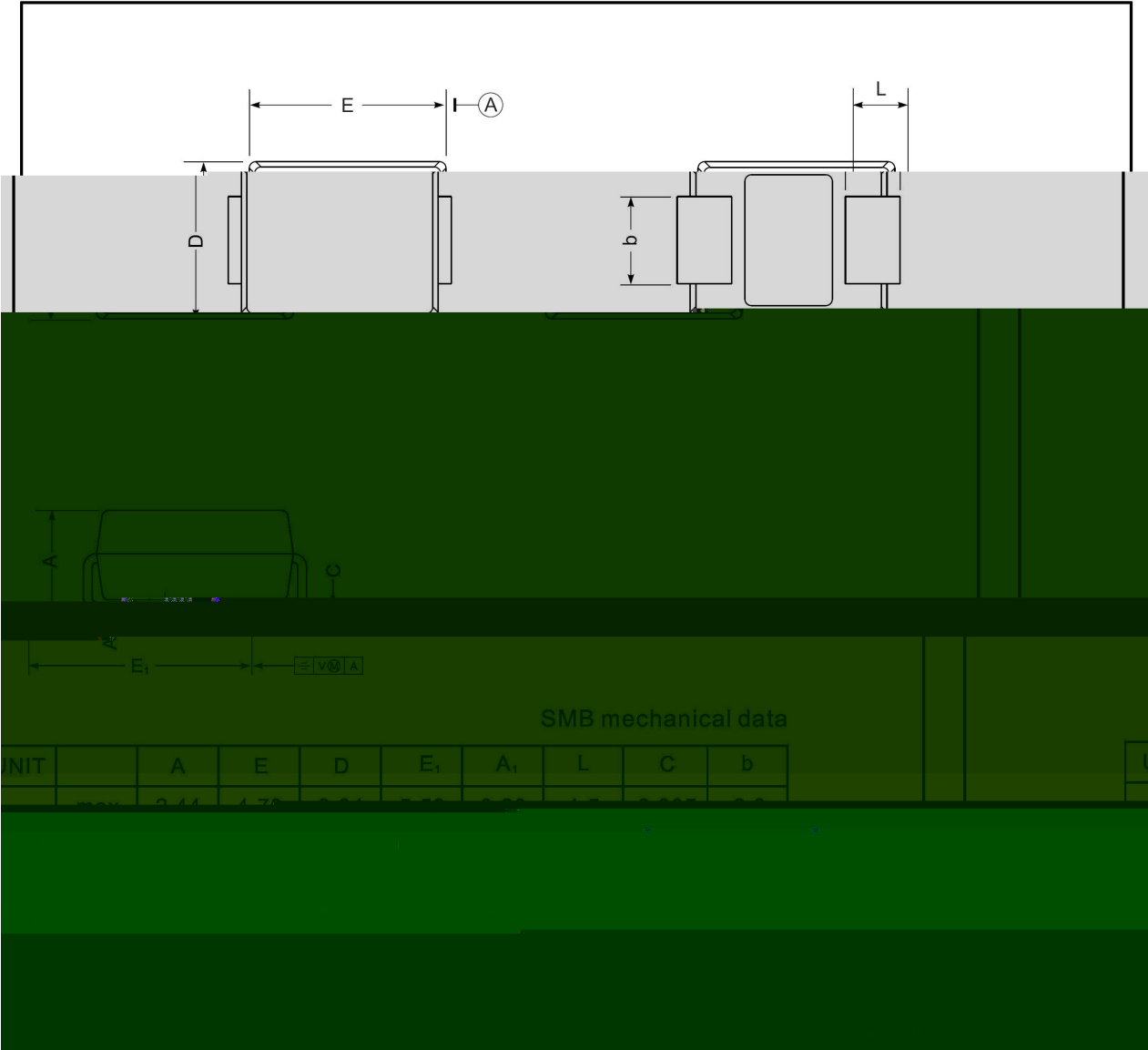
@ f Parameter	... Z Symbol	y i Ú ^ Test Conditions	D Rating								% y Unit
			SS52B	SS54B	SS56B	SS58B	SS510B	SS512B	SS515B	SS520B	
Maximum Instantaneous Forward Voltage	V _F	I _F =5.0A	0.55		0.70			0.85		V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	T _a =25	1.0				0.3			mA	
		T _a =100	5.0				25			mA	

Ω ? d • Ž ¢ / Electrical Characteristic Curve

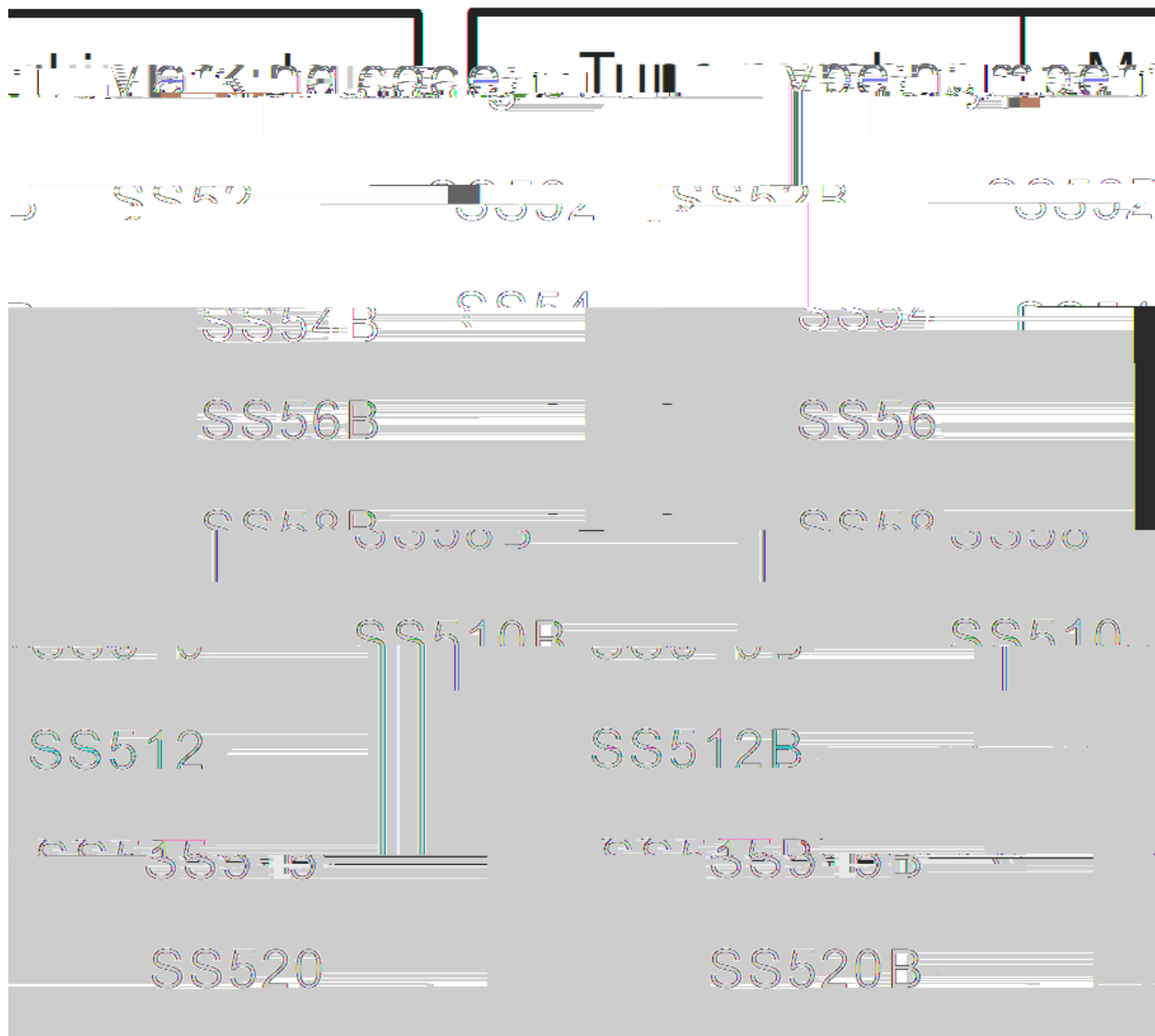


Ø □ =) ♂ / Package Dimensions

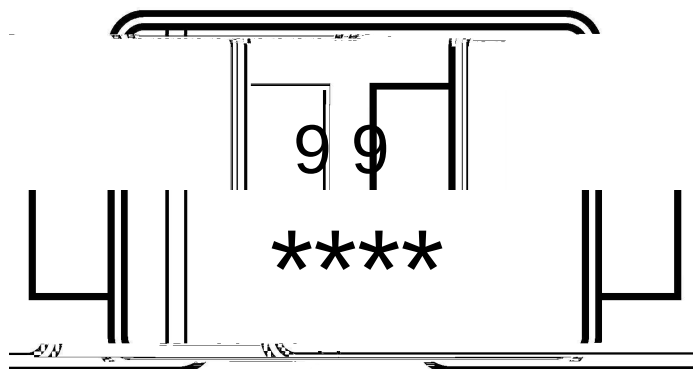
SMB



Marking



Marking Instructions



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99 y ° Z W A

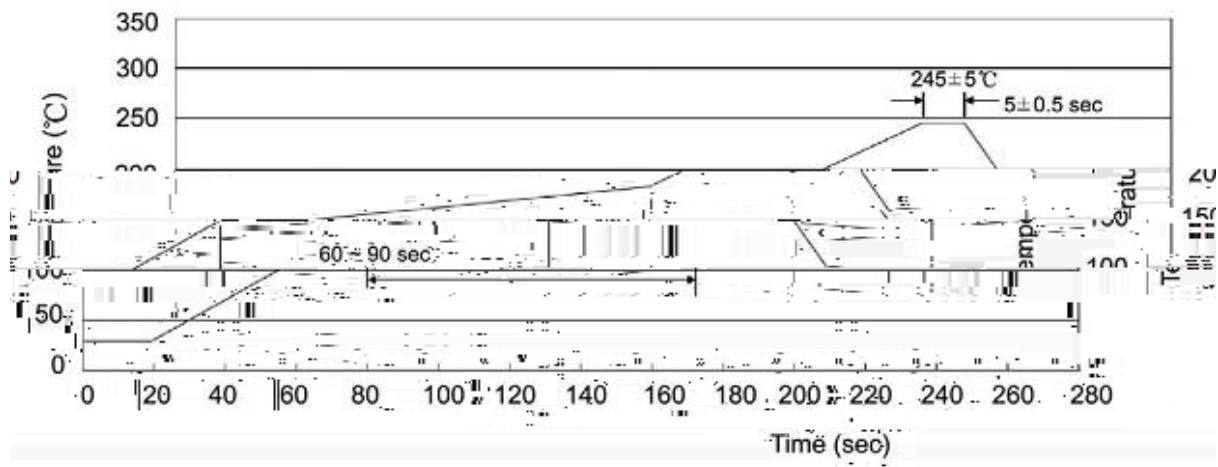
***** y ý D Z AÇ A k † v ã W A k e μ ¢ ã 4 Z W A

Note:

99 y Product Type Code

***** y Lot No. Code kThe 1st means:YM Code kThe last 3 means:little Lot No Code

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a Ć y

1o• Ä ½ “ † 150 ½180 - k ž • 60 ½90sec;

2o• Q > “ † 245 r5 - k ž • 4 Ò 5 r0.5sec;

3o•D N ò i Ò 0 , † 2 ½10 - /sec.

Note:

1.Preheating:150~180 - , Time:60~90sec.

2.Peak Temp.:245 r5 - , Duration:5 r0.5sec.

3. Cooling Speed: 2~10 - /sec.

ÂD /Că p ¯ »] / Resistance to Soldering Heat Test Conditions

“ † y 260 r5 -

ž • y 10 r1 sec.

Temp.:260 r5 -

Time:10 r1 sec

G P á / Packaging SPEC.

2 & x / REEL

Package Type
ß m ù ´