

/ Descriptions

20V~200V

5.0A

SMB

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

/ Features

RoHS

2011/65/EU

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

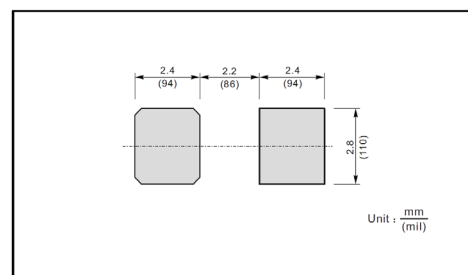
/ Applications

General purpose.

/ Equivalent Circuit**/ Pinning**

PIN	DESCRIPTION
1	Cathode
2	Anode

The recommended mounting pad size

**/ Marking**

See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating								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 ⁽¹⁾	C _j	500		300						pF
Typical Thermal Resistance ⁽²⁾	R _{θJA}	50								/W
Operating and Storage Temperature Range	T _j , T _{stg}	-55~+150								

Note:

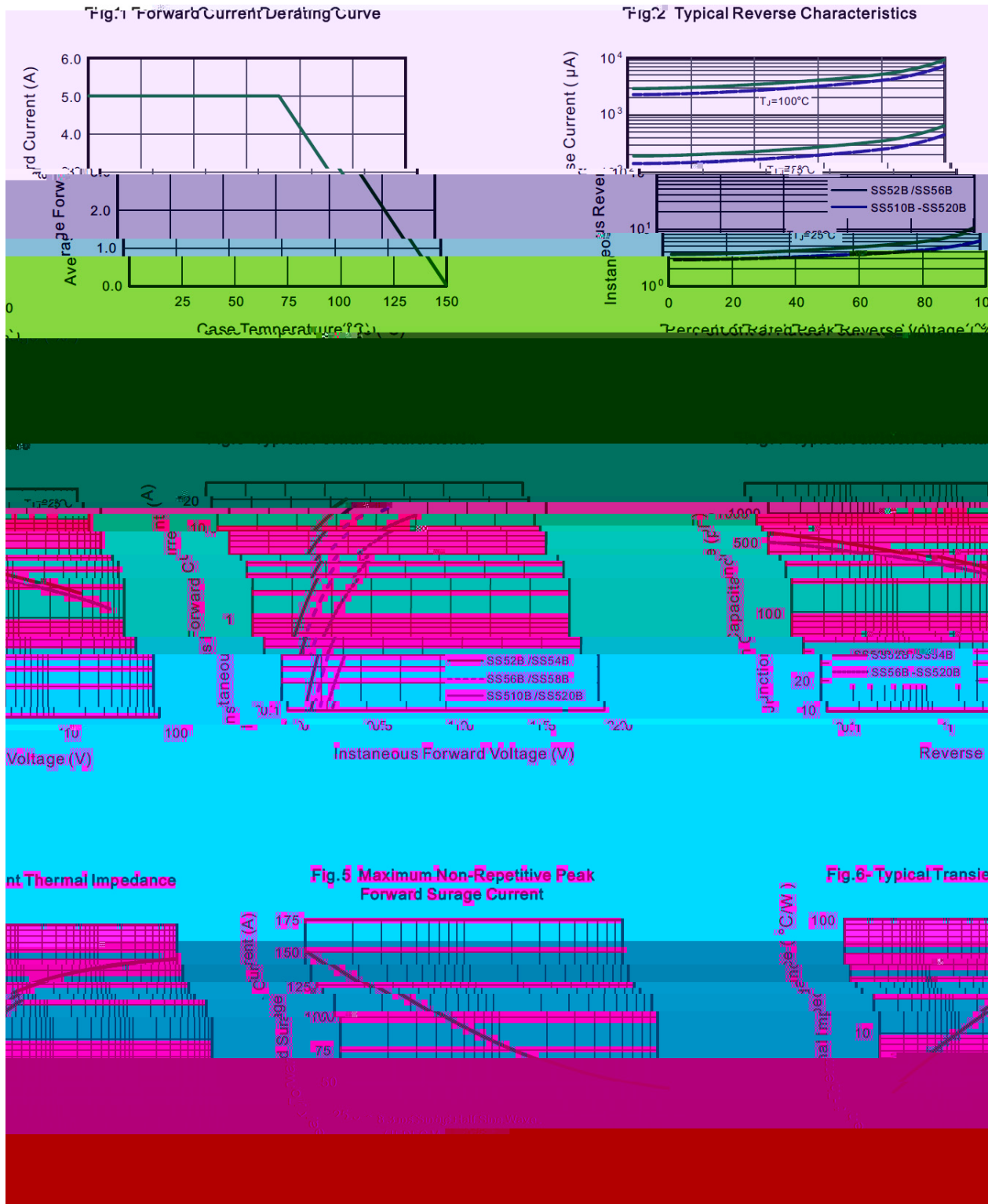
- 1) Measured at 1MHz and applied reverse voltage of 4 V D.C.
 2) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Rating								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

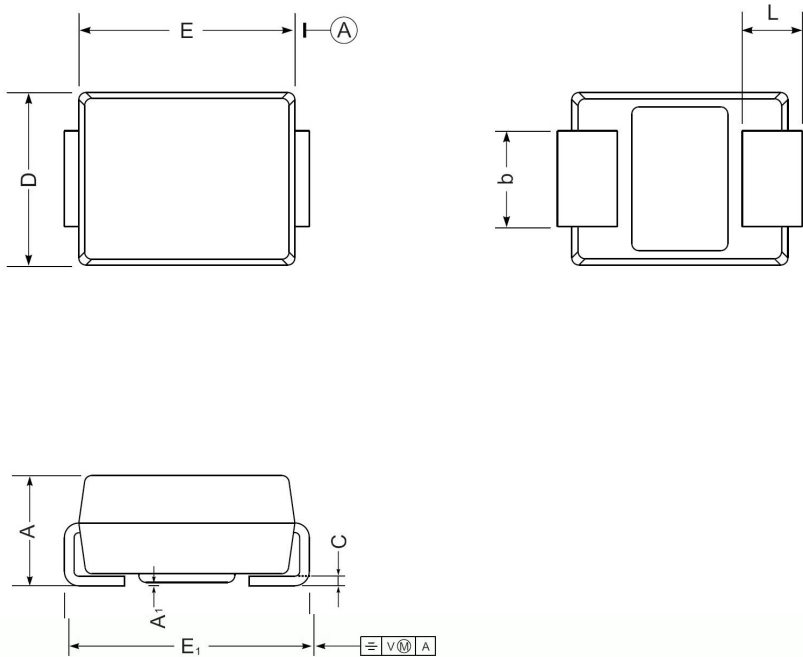


/ Electrical Characteristic Curve



/ Package Dimensions

SMB



SMB mechanical data

UNIT		A	E	D	E ₁	A ₁	L	C	b
mm	max	2.44	4.70	3.94	5.59	0.20	1.53	0.305	2.22
	min	2.13	4.06	3.3	5.08	0.05	0.8	0.152	1.9
mil	max	96	185	155	220	7.9	59	12	87
	min	84	160	130	200	2.0	32	6	75

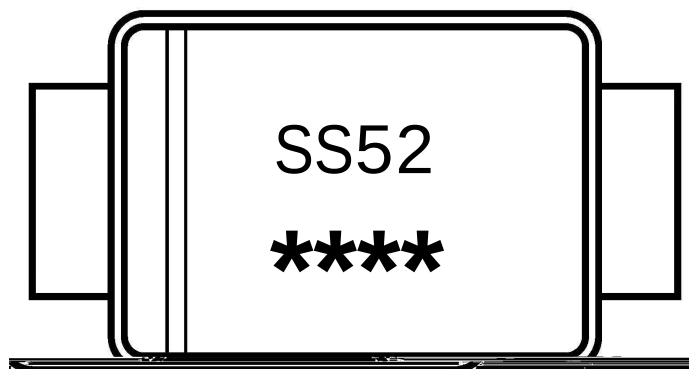
/ Marking Instructions

Marking

code	Type number	Marking
SS54	SS54B	
SS56	SS56B	
SS58	SS58B	
SS510	SS510B	
SS512	SS512B	
SS515	SS515B	
SS520	SS520B	



/ Marking Instructions



SS52

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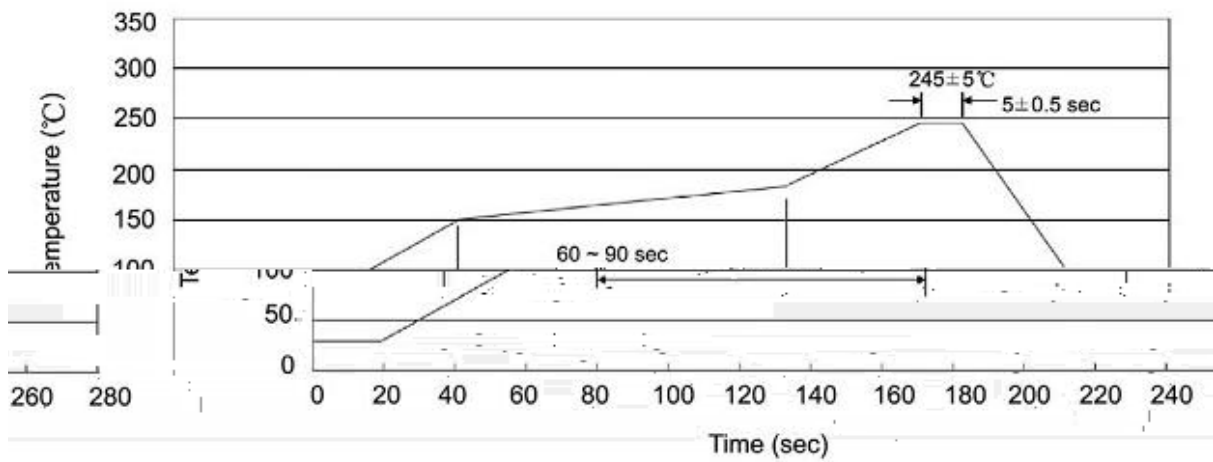
3 *

Note:

SS52 Product Type Code

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

() / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- | | | | | | |
|---|-------|-----|-----------|--------|---|
| 1 | 150 | 180 | 60 | 90sec; | 1.Preheating:150~180 , Time:60~90sec. |
| 2 | 245±5 | | 5±0.5sec; | | 2.Peak Temp.:245±5 , Duration:5±0.5sec. |
| 3 | | 2 | 10 | /sec. | 3. Cooling Speed: 2~10 /sec. |

/ Resistance to Soldering Heat Test Conditions

260±5 10±1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type 封装形式	Units 包装数量	Dimension 包装尺寸 (unit: mm ³)
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