

/ Descriptions

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

/ Features

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

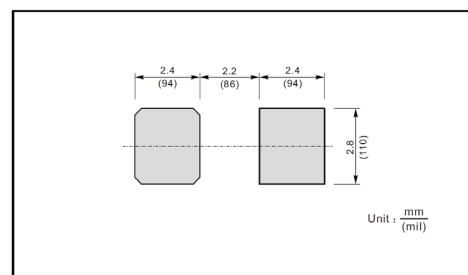


/ Pinning



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 _{JA}	50								/W
Operating and Storage Temperature Range	T _j , T _{stg}	-55~+150								

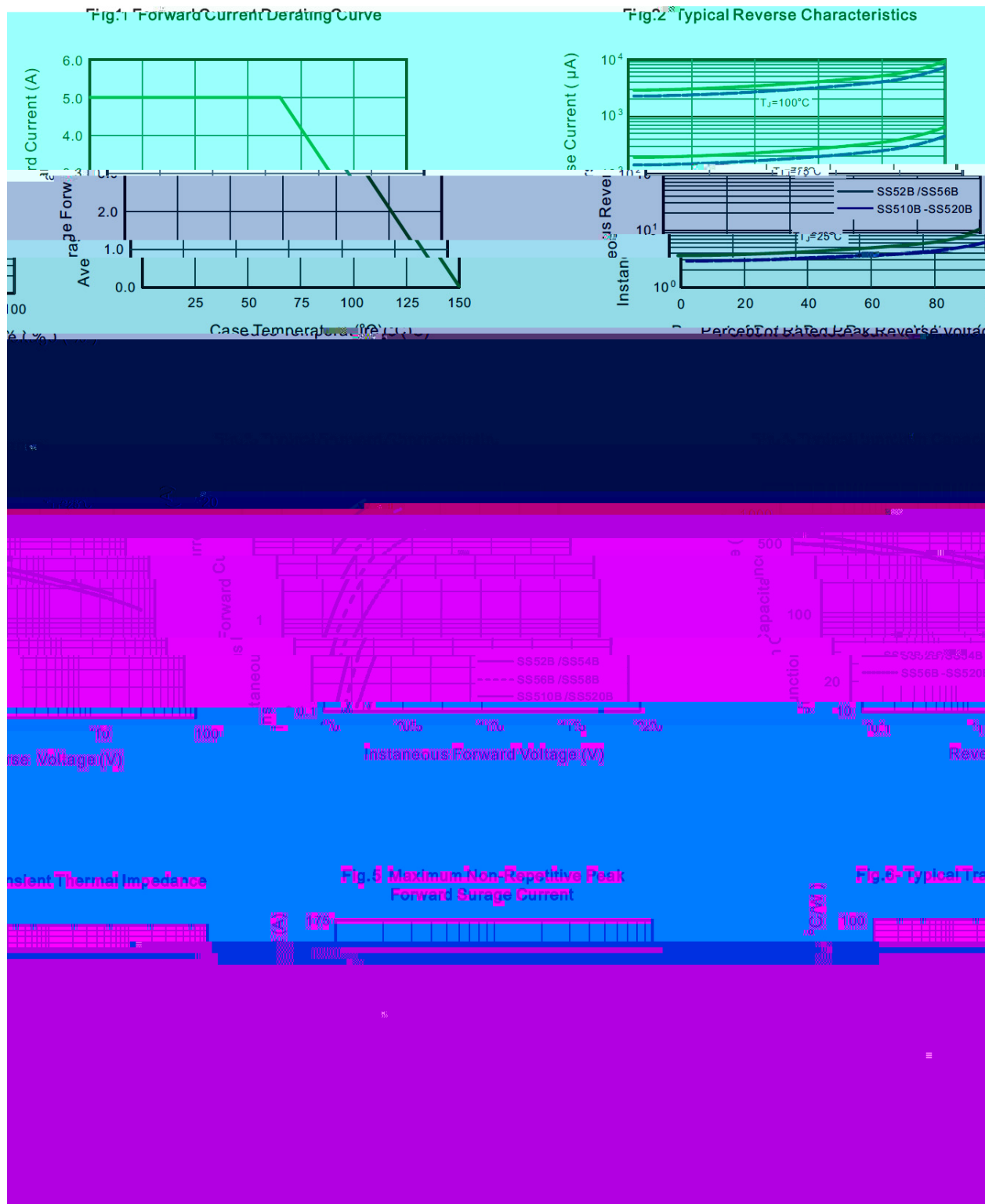
Note:

- 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)

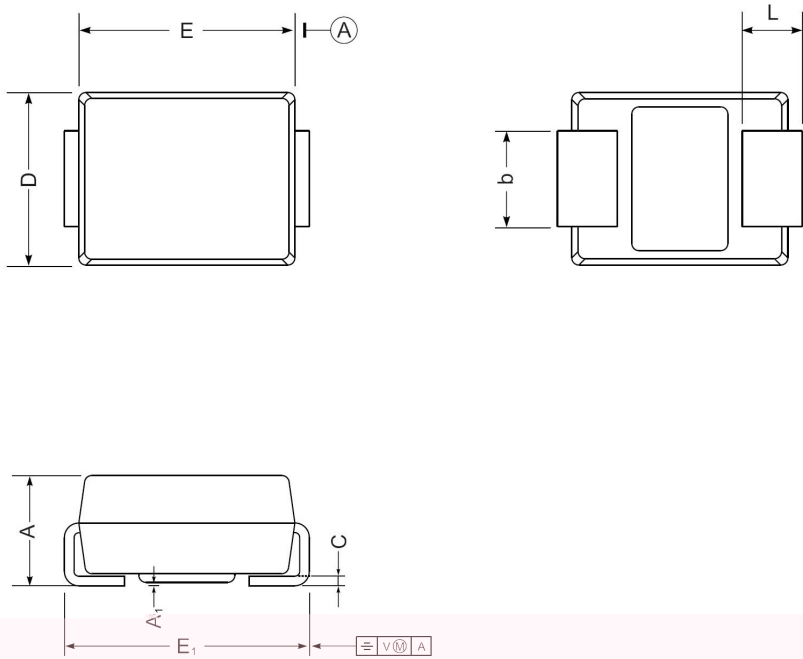
Parameter	Symbol	Test Conditions	Rating								Unit
			SS52B	SS54B	SS56B	SS58B	SS510B	SS512B	SS515B	SS520B	
Maximum Instantaneous Forward Voltage	V _F	I _F =5.0A	0.55		0.70		0.85				V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	T _a =25	1.0		0.3						mA
		T _a =100	5.0		25						mA

/ Electrical Characteristic Curve



/ Package Dimensions

SMB



SMB mechanical data

UNIT		A	E	D	E ₁	A ₁	L	C	b
	max.	2.44	4.70	3.94	5.59	0.20	1.50	0.305	2.2
mm	min	2.13	4.06	3.3	5.08	0.05	0.8	0.152	1.9
	max	96	185	155	220	7.9	59	12	87
mil	min	84	160	130	200	2.0	32	6	75

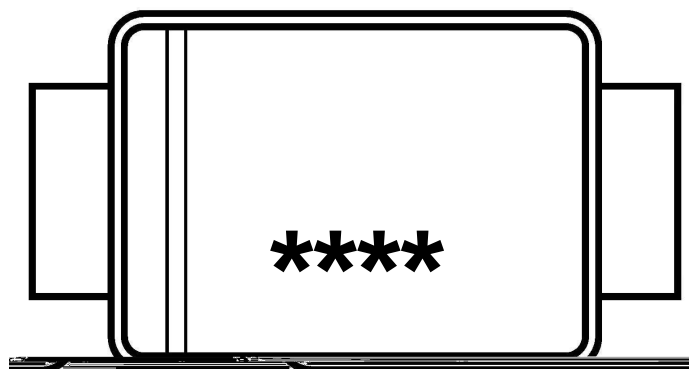
/ Marking Instructions

Marking

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



/ Marking Instructions



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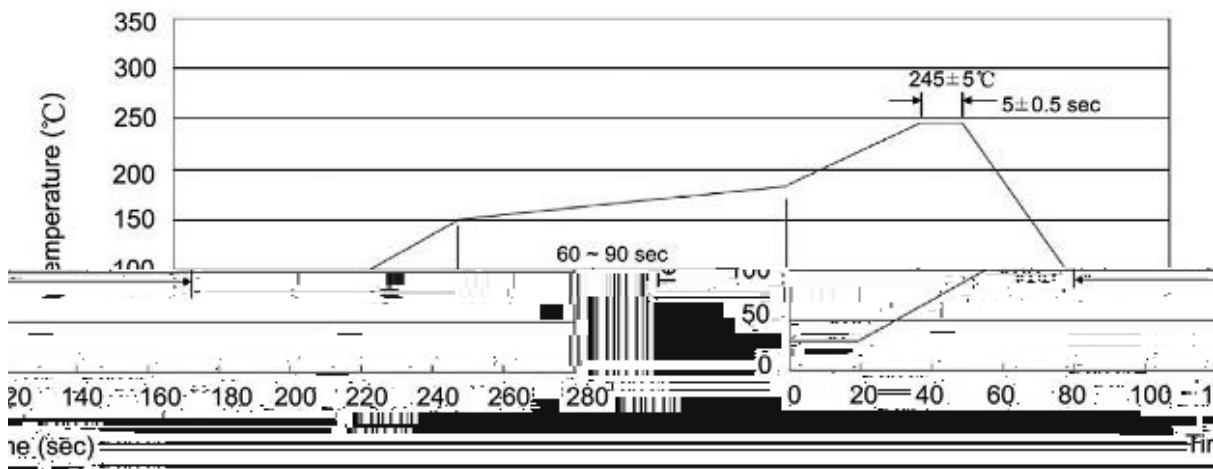
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Note:

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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