/ Descriptions

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Surface Mount Schottky Barrier Rectifiers, Reverse Voltage χ 60 to 100V,Forward Current: 5.0A ,SMB package.

/ Features

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Low power loss, High efficiency, High forward surge current capability, For surface mounted applications. HF product.

/ Applications

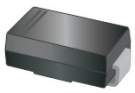
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General purpose.

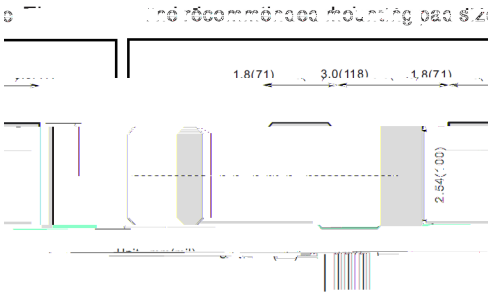
/ Equivalent Circuit



/ Pinning



PIN	DESCRIPTION
1	Cathode
2	Anode



/ Marking

ð м ヽ ب ˝ See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

v Ѭ Parameter	ϒ N Symbol	Ѭ Ө Rating		D Ђ Unit
		SSL56B	SSL510B	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	60	100	V
Maximum RMS voltage	V_{RMS}	42	70	V
Maximum DC Blocking Voltage	V_{DC}	60	100	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	600		pF
Typical Thermal Resistance [2]	$R_{\ JA}$	45		/W
Operating and Storage Temperature Range	T_j,T_{stg}	-55~+150		

Note:

1 Measured at 1 MHz 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)

v Ѭ Parameter	ϒ N Symbol	Ll ; † Ɫ Test Conditions	Rating		D Ђ Unit
			SSL56B	SSL510B	
Maximum Instantaneous Forward Voltage	V_F	I_F=5.0A	0.5	0.6	V
Maximum DC Reverse Current at Rated DC Reverse Voltage	I_R	T_a=25	1.0		mA
		T_a=100	50		mA

/ Electrical Characteristic Curve

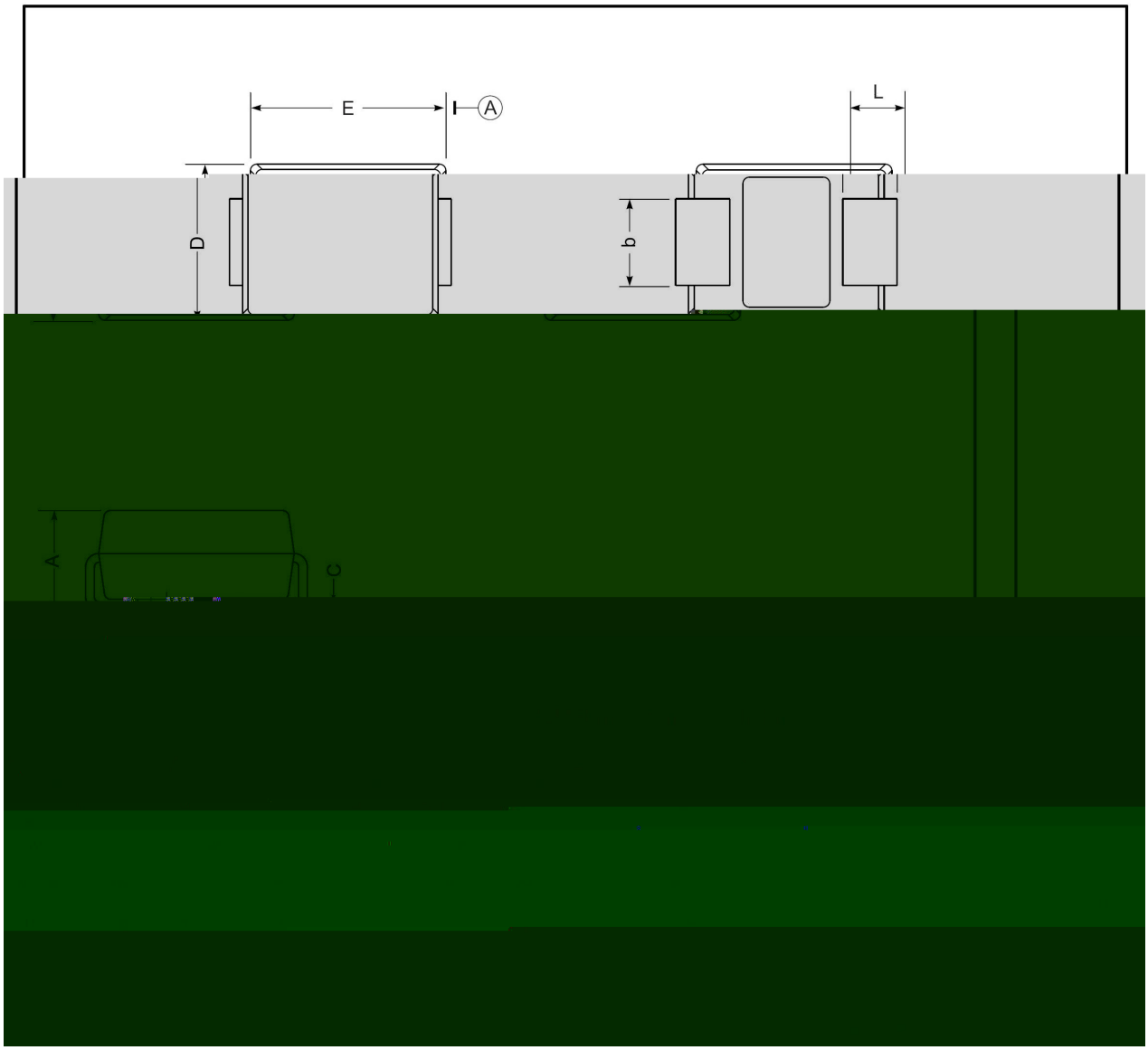
Fig.1 Forward Current Derating Curve

Fig.2 Typical Reverse Characteristics

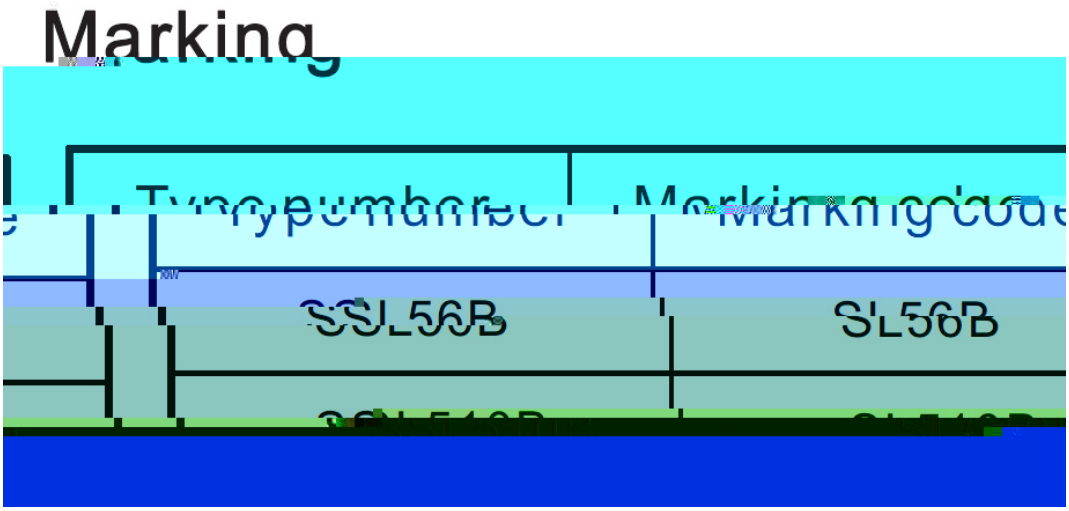


/ Package Dimensions

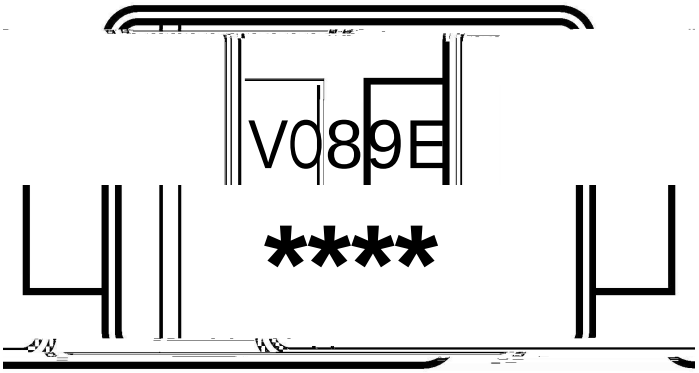
SMB



/ Marking Instructions



/ Marking Instructions



ب ˝ χ

V089E χ ѭ ʒ ᴺ Ђ

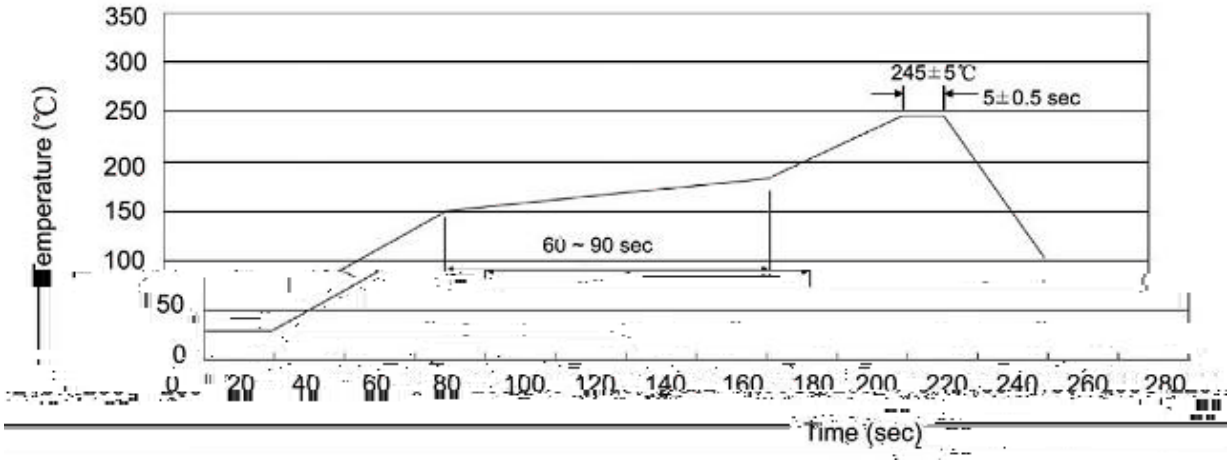
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Note:

V089E χ Product Type Code

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

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



ب ˝ χ

1 Ĺ ♬ □ ỷ 150 Ḱ 180 ł ı ̀H ڑ 60 Ḱ 90sec;

2 Š Ө □ ỷ 245 ° 5 ł ı ̀H ڑ ̀Y ∧ ㎛ 5 ° 0.5sec;

3 ì ˙ ٧ ˛ ↄ ﷺ ỷ ㎛ 2 Ḱ 10 ł /sec.

Note:

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

2.Peak Temp.:245 ° 5 ł , Duration:5 ° 0.5sec.

3. ° 5 ł