

/ Descriptions

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

/ Features

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

/ Applications

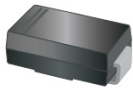
General purpose.

/ Equivalent Circuit



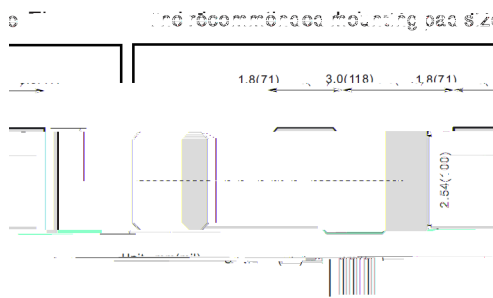
/ Pinning

1



2

PIN	DESCRIPTION
1	Cathode
2	Anode



/ Marking

See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25 °C)

Parameter	Symbol	Rating		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 °C)

Parameter	Symbol	Test Conditions	Rating		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 Rectifying Curve

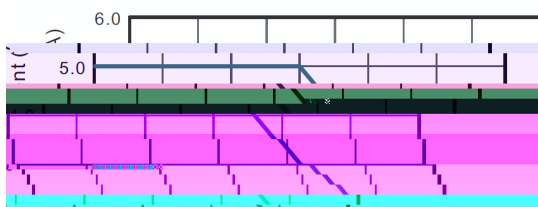
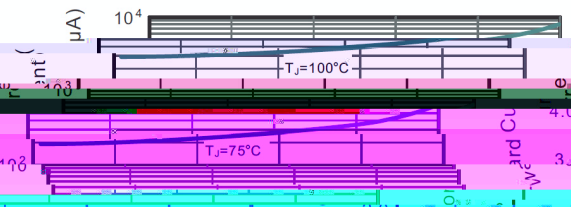
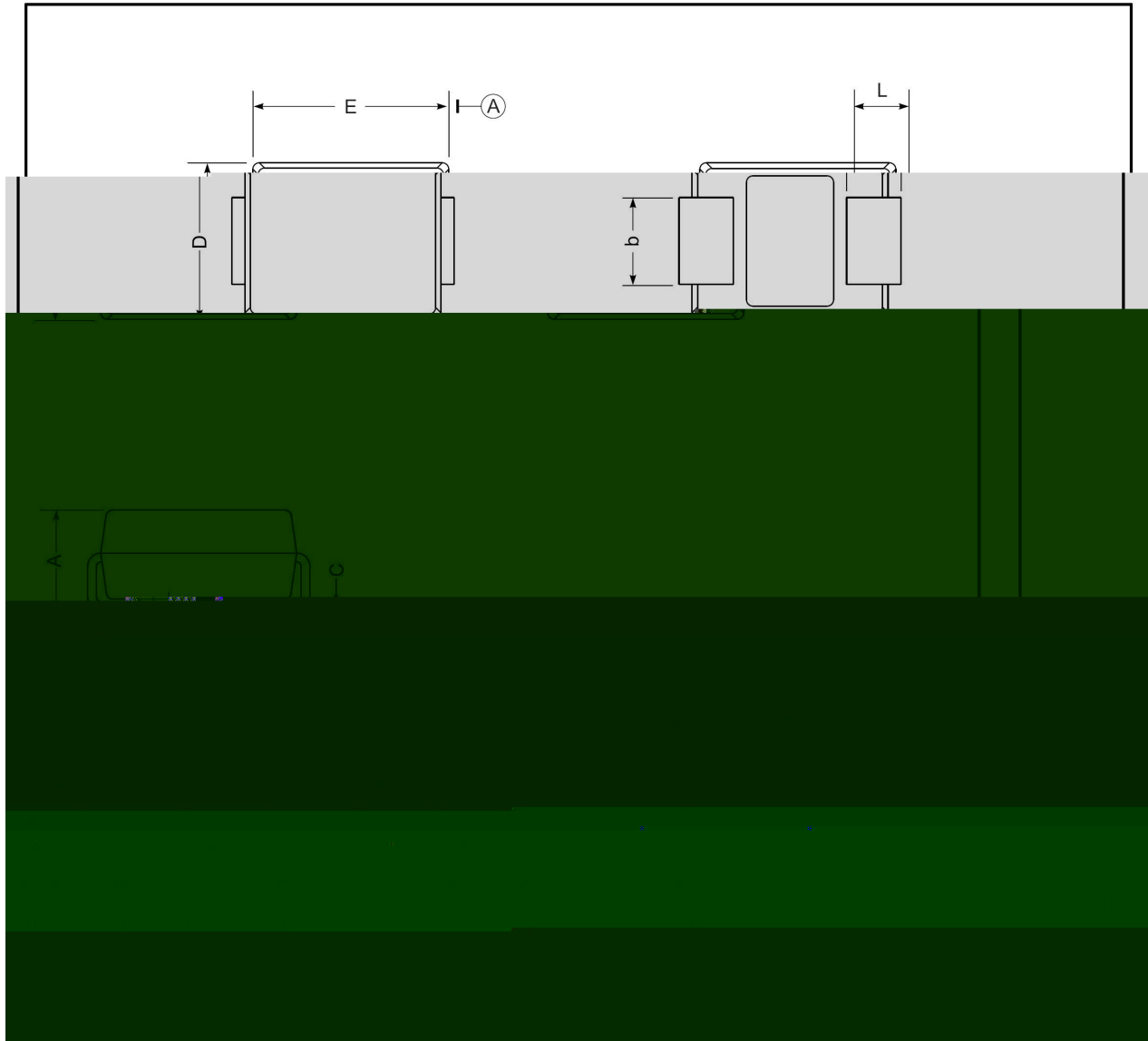


Fig.2 Typical Reverse Characteristics



/ Package Dimensions

SMB



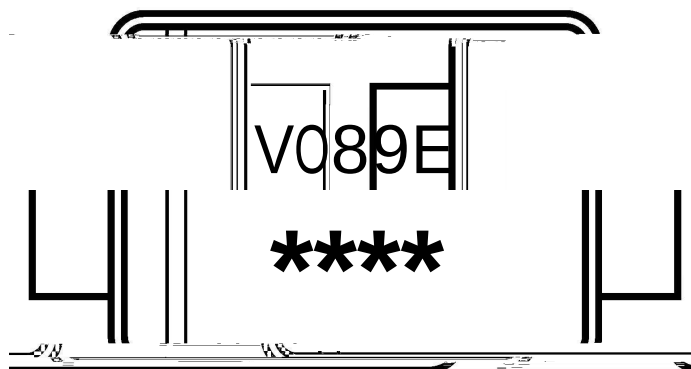


/ Marking Instructions

Marking

Type	Marking code
SSL56B	SL56B
SSL510B	SL510B

/ Marking Instructions



б " X

V089E X № 3 N Г

***** X № 1 F ñ N Г . I M 4 A * № W ó Г I ° = 6 A * № E ó ñ ñ N Г

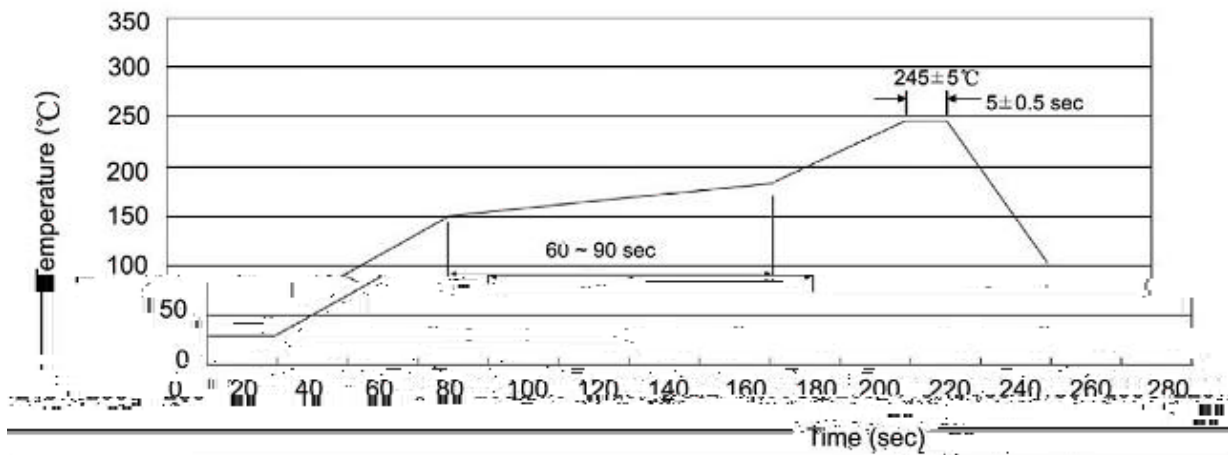
Note:

V089E X Product Type Code

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



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



1. 2. 3.

1. 150~180°C, Time: 60~90sec;

2. 245±5°C, Time: 5±0.5sec;

3. 2~10°C/sec.

Note:

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

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

3. °5