

Description

The SSL54C~SSL510C is surface mount schottky barrier diode in a SMC plastic package.

Applications

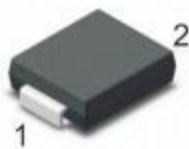
- General purpose

Features

- Low power loss
- High efficiency
- High forward surge current capability
- For use in low voltage
- High frequency inverters
- And polarity protection applications
- For surface mounted applications
- Halogen free product

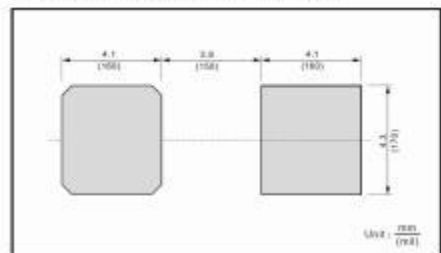
V_{RM}	$I_{F(AV)}$ (total)	I_{FSM}
40~100V	5A	150A

Equivalent Circuit & Pinning



PIN	DESCRIPTION
1	Cathode
2	Anode

The recommended mounting pad size



Marking

See Marking Instructions.

Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Rating					Unit
		SSL54C	SSL545C	SSL55C	SSL56C	SSL510C	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	45	50	60	100	V
Maximum RMS voltage	V_{RMS}	28	32	35	42	70	V
Maximum DC Blocking Voltage	V_{DC}	40	45	50	60	100	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	5.0					A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	150					A
Typical Junction Capacitance ¹⁾	C_i	500	300			pF	
Typical Thermal Resistance ²⁾	$R_{\theta JA}$	60					°C/W
Operating Junction Temperature Range	T_j	-55 ~ +150					°C
Storage Temperature Range	T_{stg}	-55 ~ +150					°C

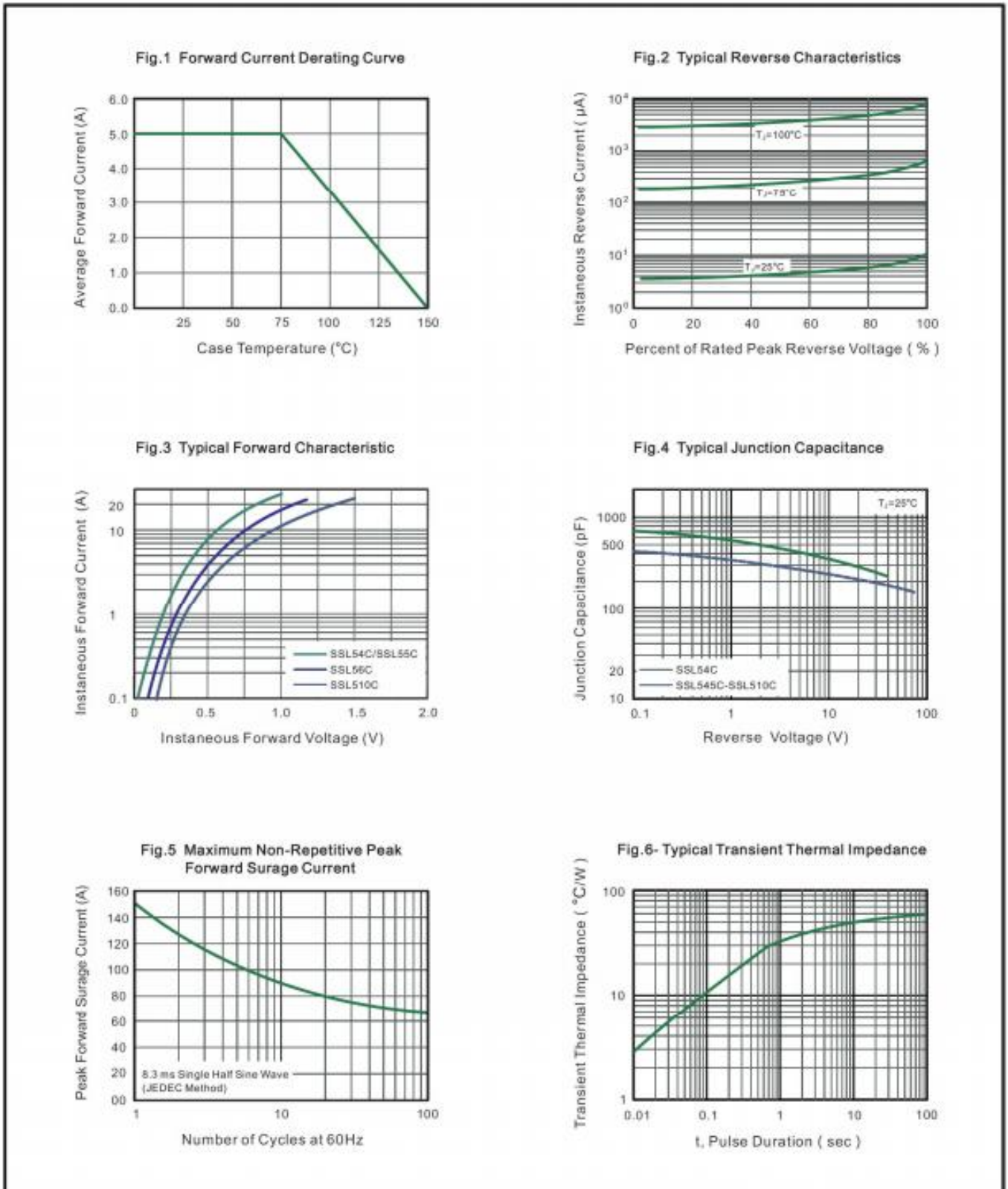
Note:

- 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°C)

Parameter	Symbol	Test Conditions	Rating					Unit
			SSL54C	SSL545C	SSL55C	SSL56C	SSL510C	
Max Instantaneous Forward Voltage	V_F	$I_F=5.0A$	0.45			0.50	0.60	V
Maximum DC Reverse Current at Rated DC Reverse Voltage	I_R	$T_a=25^\circ C$	0.5					mA
		$T_a=100^\circ C$	5.0					

Electrical Characteristic Curve



Marking instructions



Note:

SSL54 : Product Type Code

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

Marking

Type number	Marking code
SSL54C	SSL54
SSL545C	SSL545
SSL55C	SSL55
SSL56C	SSL56
SSL510C	SSL510

Packaging SPEC.

BULK

Package Type	Units					Dimension (unit: mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SMC	3000	2	6000	6	36000	13" ×16	337X337X49	380X335X366

Package Dimensions.

SMC

