/ Descriptions

100V 5.0A SMA

Surface Mount Schottky Barrier Rectifier, Reverse Voltage:100V, Forward Current:5.0A,SMA package.

/ 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,HF product.

/ Applications

General purpose.

/ Equivalent Circuit



/ Pinning



PIN	DESCRIPTION
1	Cathode
2	Anode



/ Marking

See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Maximum RMS voltage	V_{RMS}	70	V
Maximum DC Blocking Voltage	V_{DC}	100	V
Maximum Average Forward Rectified Current at Tc=100	$I_{F\ AV}$	5	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}	150	A
Typical Junction Capacitance[1)]	C_i	300	pF
Typical Thermal Resistance[2)]	$R_{\theta JA}$	50	/W
Operating Junction Temperature Range	T_j	-55 ~ +150	
Storage Temperature Range	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)

Parameter	Symbol	Test Conditions	Rating	Unit
Max Instantaneous Forward Voltage	V_F	I_F=5.0A	0.6	V
Maximum DC Reverse Current at Rated DC Reverse Voltage	I_R	T_a=25	1.0	mA
		T_a=100	50	

/ Electrical Characteristic Curve

Fig.1 Forward Current Derating Curve

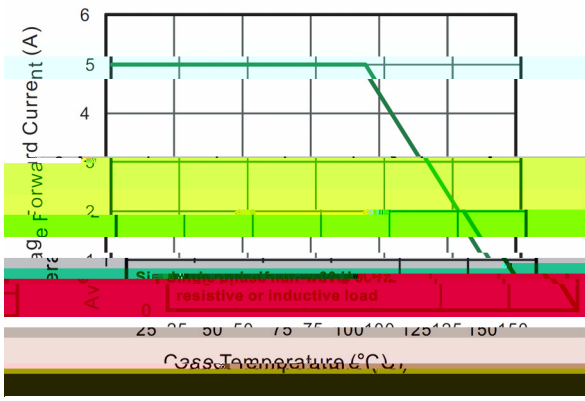


Fig.2 Typical Reverse Characteristics

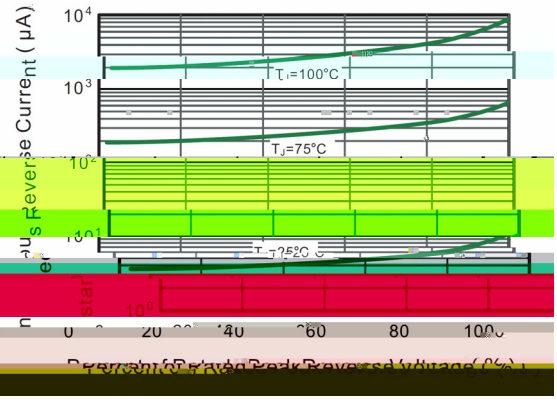


Fig.3 Typical Forward Characteristic

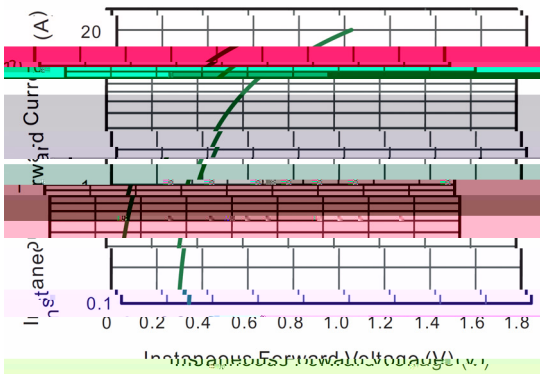
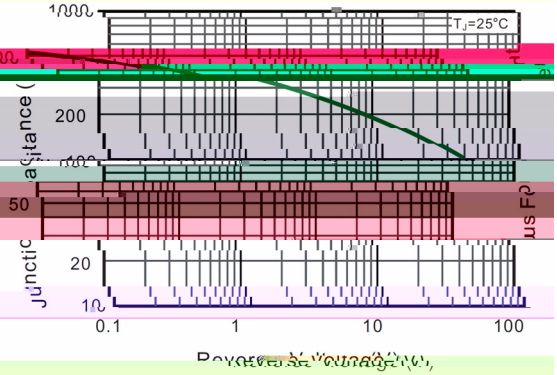
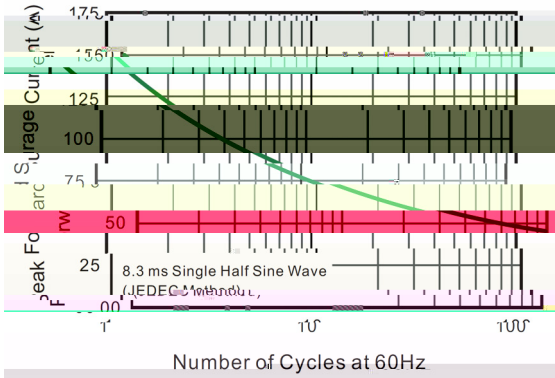
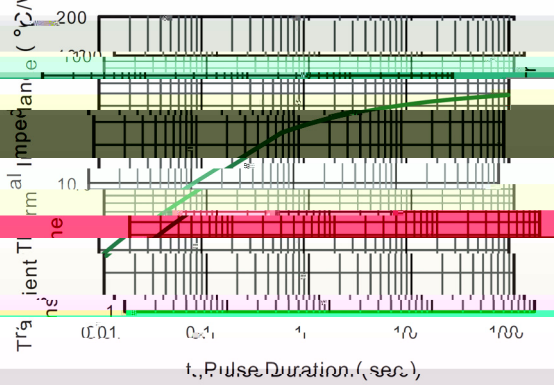


Fig.4 Typical Junction Capacitance







/ Package Dimensions



/ Marking Instructions



SL510

****

Note:

SL510 Product Type Code

******** Lot No. Code, code change with Lot No

SSL510

Rev.A Jul.-2024