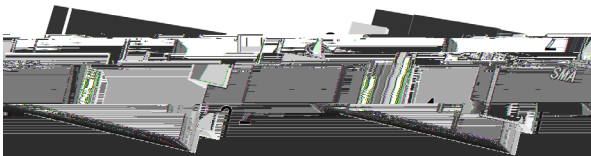


100V 5.0A SMA

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

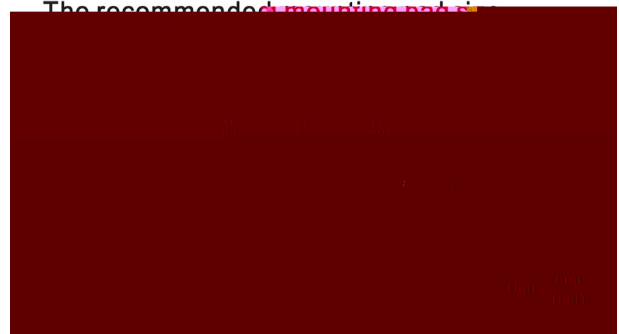
Low power loss, high efficiency, High forward surge current capability, For use in low voltage, high frequency inverters, and polarity protection applications,For surface mounted applications,HF product.

General purpose.



PIN	DESCRIPTION
1	Cathode
2	Anode

The recommended mounting pad is



See Marking Instructions.



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 $T_c=100$	$I_{F\ AV}$	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 on a 100mm² area with 4mm² pad areas.

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	

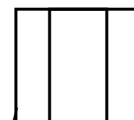


Fig.1 Forward Current Derating Curve

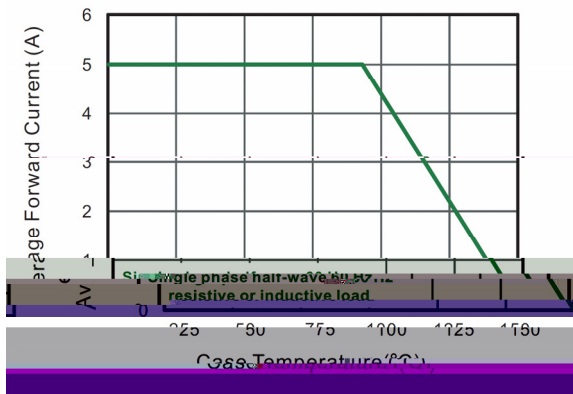


Fig.2 Typical Reverse Characteristics

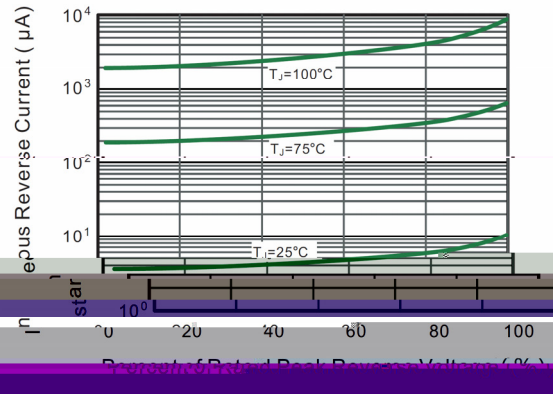


Fig.3 Typical Forward Characteristics

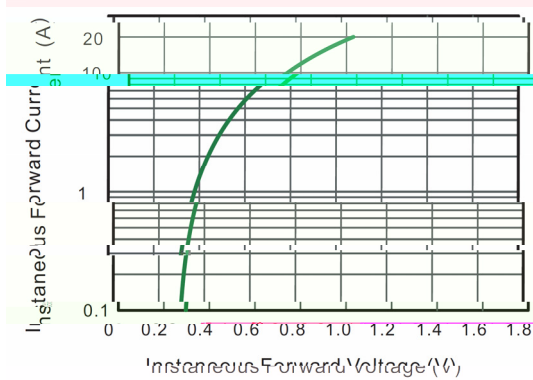


Fig.4 Typical Junction Capacitance

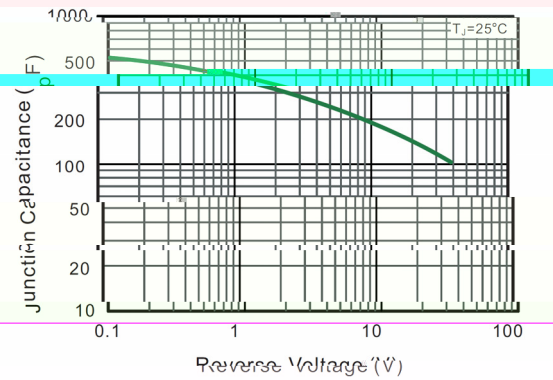


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

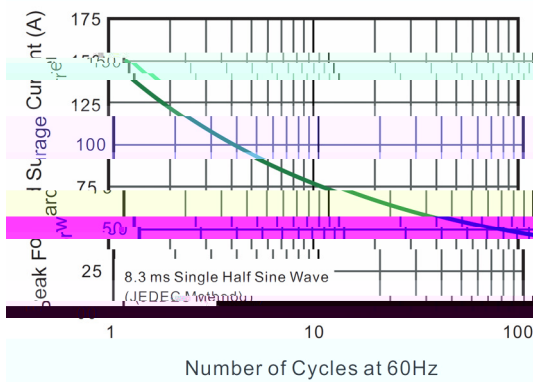
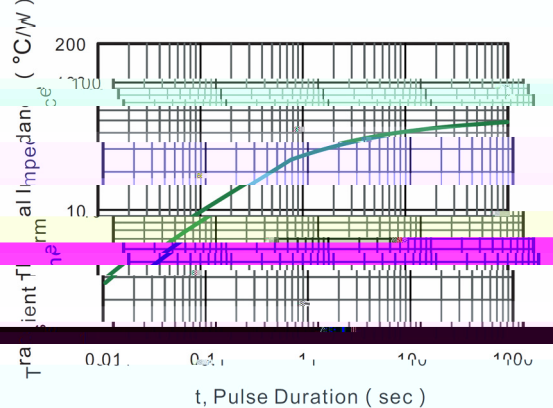
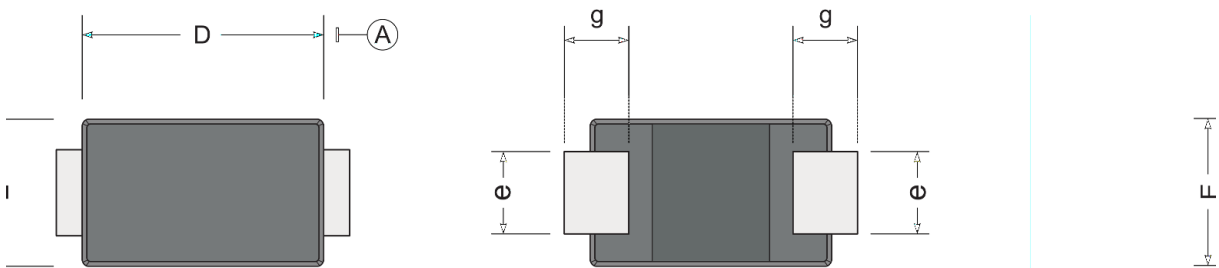
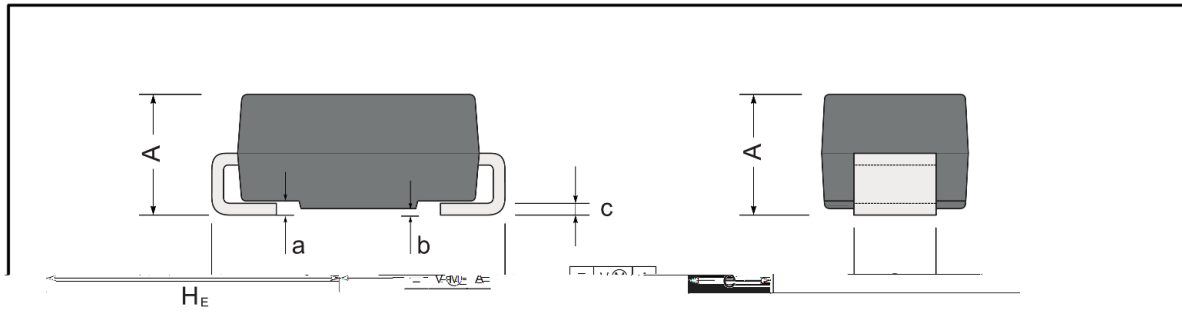


Fig.6 Typical Transient Thermal Impedance

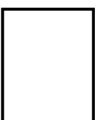


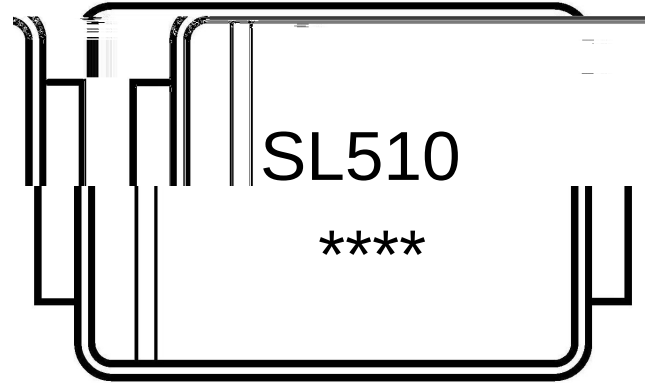
SMA



	A	D	E	H _E	c	e	g	b	a	UNIT
max	2.2	4.5	2.7	5.2	0.31	1.6	1.5	0.2	0.3	mm
min	1.9	4.0	2.3	4.7	0.15	1.3	0.9	0.05		

max	87	131	133	135	12	53	55	7.9	12
min	75	127	91	125	6	51	35	2	





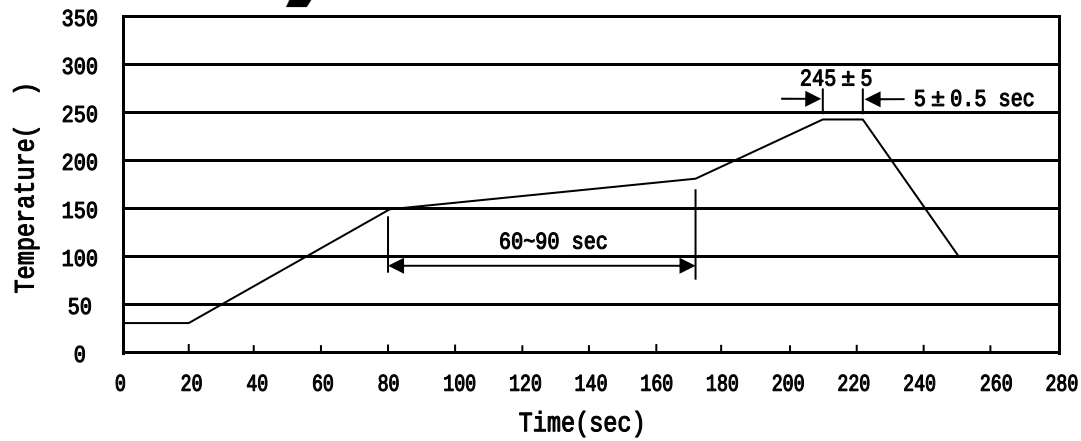
SL510

SL510

Note

Product Type Code

Lot No. Code, code change with Lot No



Note:

- 1 150 180 60 90sec; 1.Preheating:150~180 , Time:60~90sec.
- 2 245±5 5±0.5sec; 2.Heating:245±5 , Duration:5±0.5sec.
- 3 260±5 10±1sec; 3.Cooling:260±5 /sec.

260±5

10±1 Sec.

Temp.:260±5

Time:10±1 sec

7 REEL

Package Type	Units				Dimension (unit mm ³)		
SMA	10,000	10,000	7	70,000	13 ×12	336×336×40	380×335×366