100V 5.0A SMAF

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

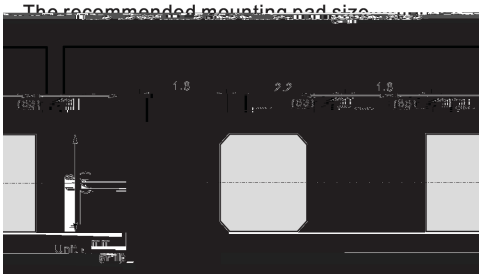
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General purpose.





PIN	DESCRIPTION
1	Cathode
2	Anode



See Marking Instructions.

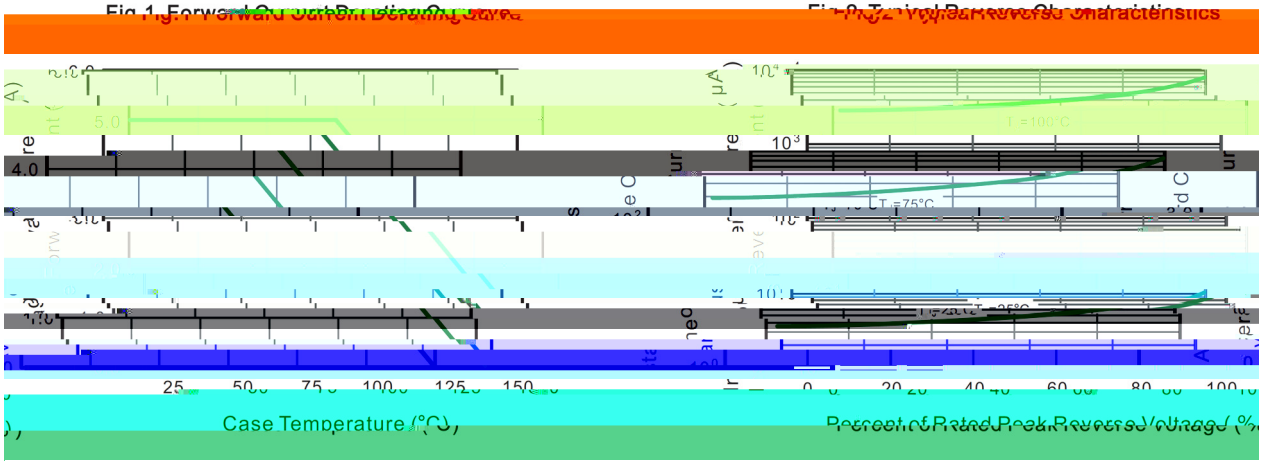
Parameter	Symbol	Rating	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Maximum RMS voltage	V_{RMS}	70	V
Maximum DC Blocking Voltage	V_{DC}	100	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	5.0	A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	150	A
Typical Junction Capacitance[1)]	C_i	400	pF
Typical Thermal Resistance[2)]	$R_{\theta JA}$	60	/W
Operating Junction Temperature Range	T_j	-55~150	
Storage Temperature Range	T_{stg}	-55~150	

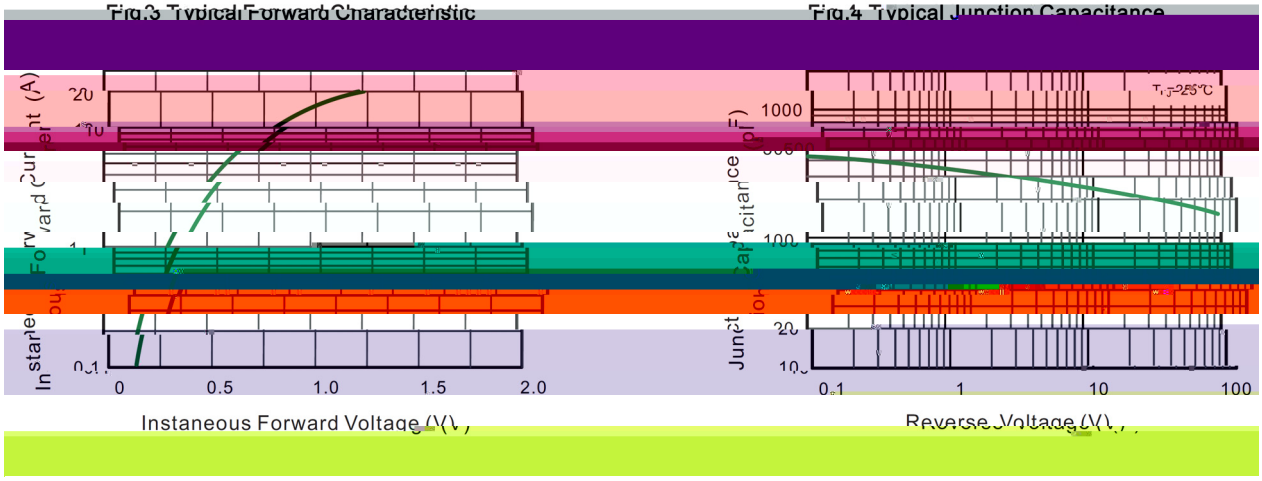
Note:

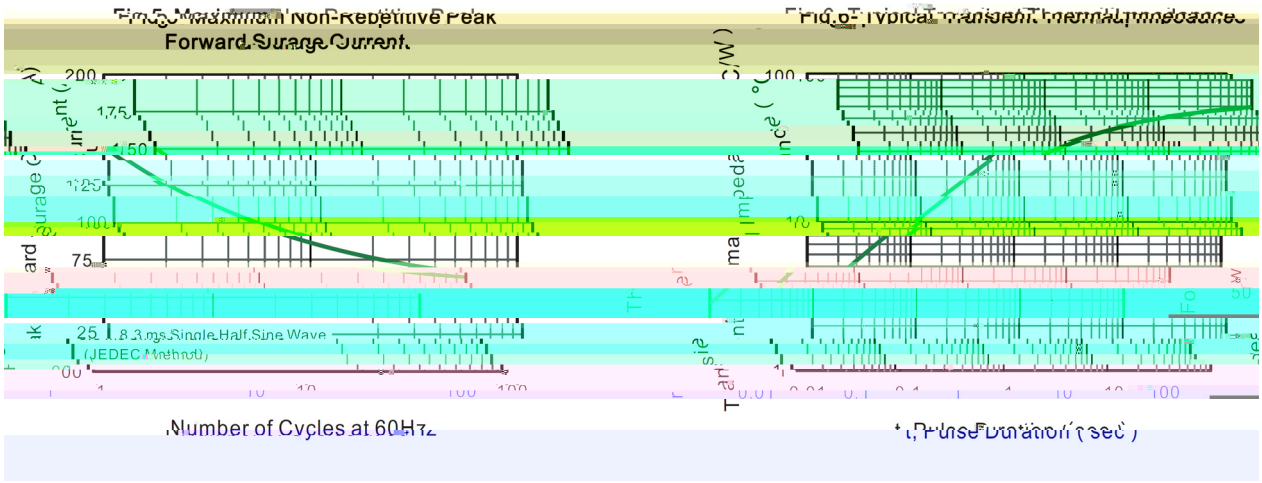
1 Measured at 1 MHz and applied reverse voltage of 4 V D.C.

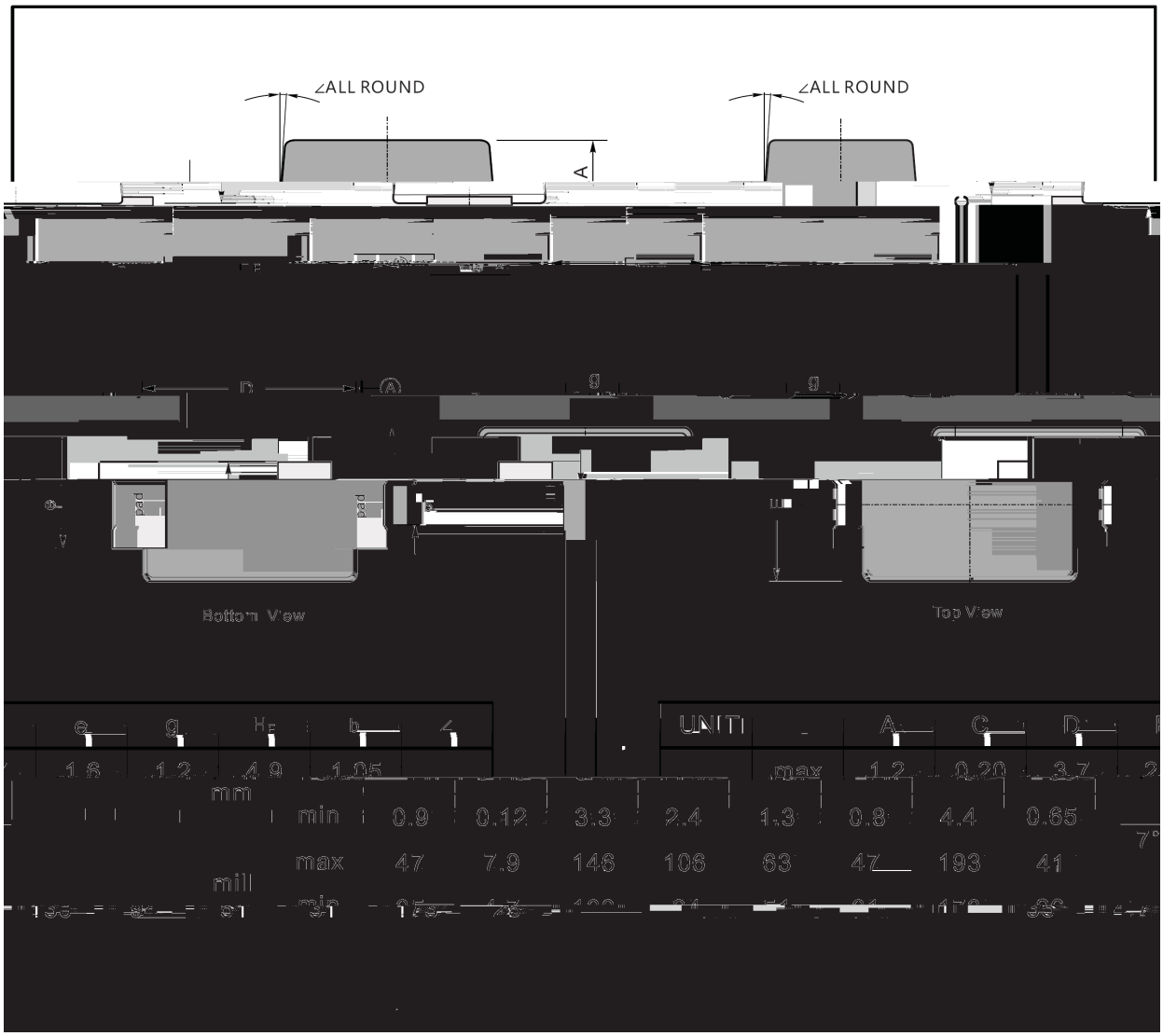
2 P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

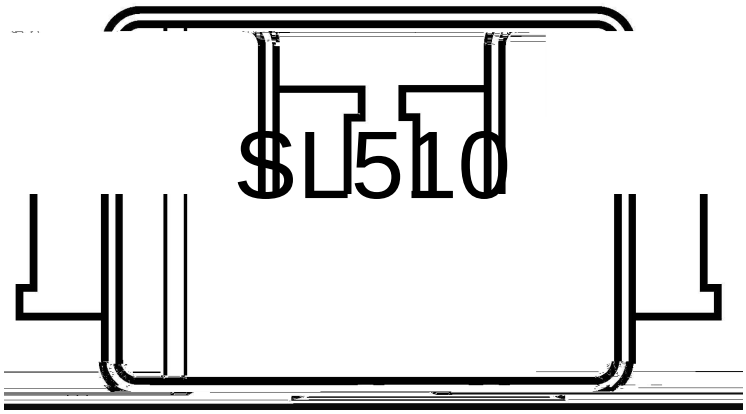
Parameter	Symbol	Test Conditions	Rating	Unit
Max Instantaneous Forward Voltage	V_F	I_F=5.0A	0.6	V
Maximum DC Reverse Current at Rated DC Reverse Voltage	I_R	T_a=25	1.0	mA
		T_a=100	50	


Case Temperature (°C)


Instaneous Forward Voltage (V)
Reverse Voltage (V)


Number of Cycles at 60Hz
Pulse Duration (sec)


∠ALL ROUND
∠ALL ROUND
A
D
g
g
pad
pad
Bottom View
Top View
e
g
HE
b
UNIT
A
C
D
1.6
1.2
4.9
1.05
mm
max
1.2
0.20
3.7
min
0.9
0.12
3.3
2.4
1.3
0.8
4.4
0.65
max
47
7.9
146
106
63
47
193
41
mill



SL510

Note:

SL510 Product Type Code

Lot No. Code, code change with Lot No