

TA SHEET

/ Descriptions

20~ 200V 8.0A SMC

Surface Mount Schottky Barrier Rectifier, Reverse Voltage: 20 to 200 V, Forward Current:8.0A ,SMC 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.Halogen free product.

/ Applications

General purpose.

/ Equivalent Circuit

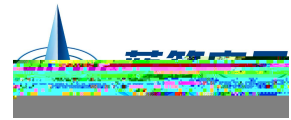


/ Pinning



/ Marking

See Marking Instructions.



/ Absolute Maximum Ratings(Ta=25)

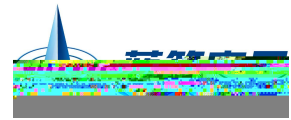
Parameter	Symbol	Rating								Unit
		SS82C	SS84C	SS86C	SS88C	SS810C	SS812C	SS815C	SS820C	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	40	60	80	100	120	150	200	V
Maximum RMS voltage	V_{RMS}	14	28	42	56	70	84	105	140	V
Maximum DC Blocking Voltage	V_{DC}	20	40	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	8.0								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	900		600						pF
Typical Thermal Resistance ²⁾	R_{JA}	35								°C/W
Operating Junction Temperature Range	T_j	-55~+150								°C
Storage Temperature Range	T_{stg}	-55~+150								°C

Note:

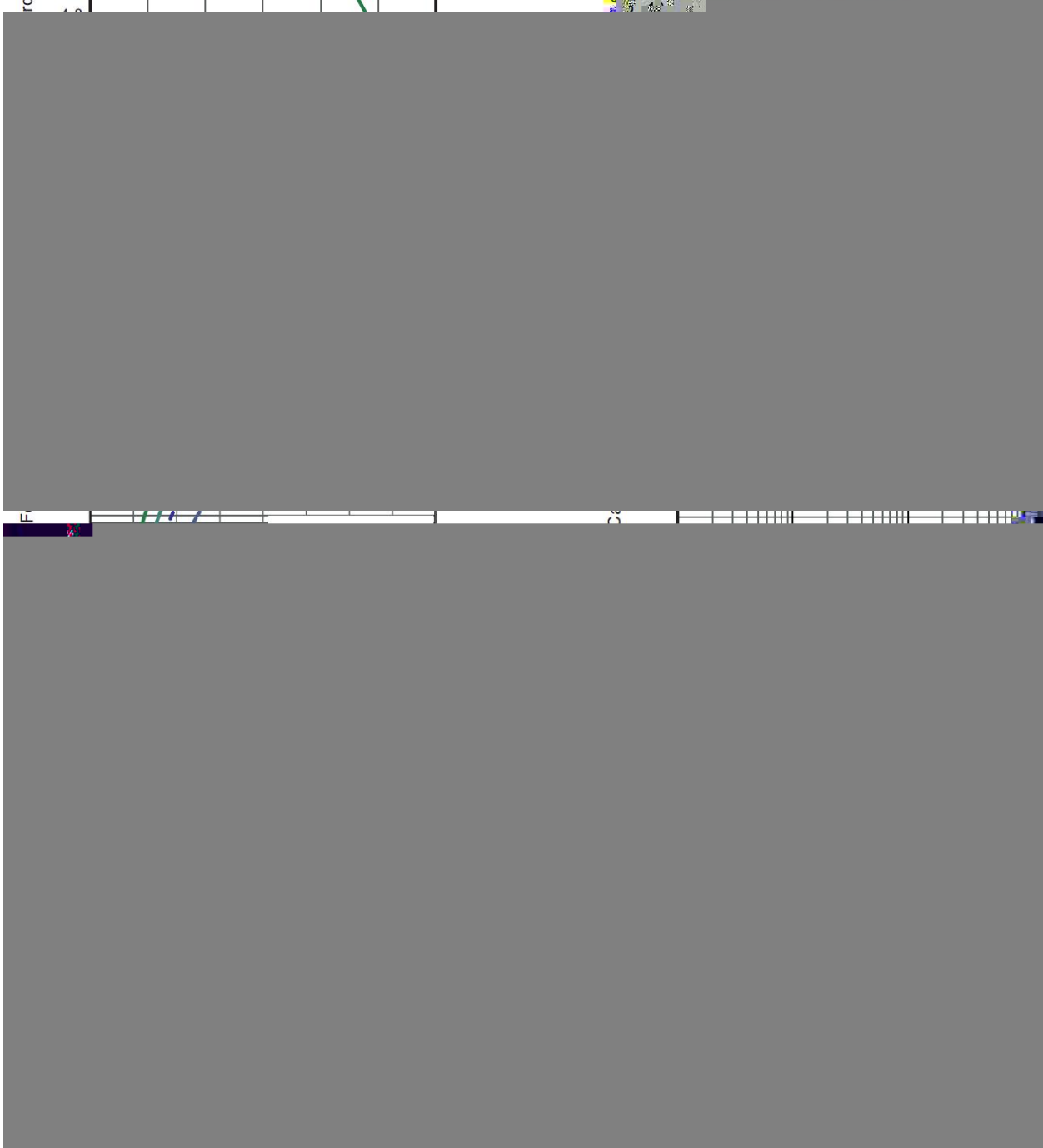
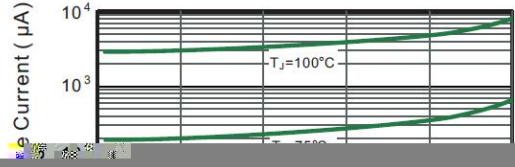
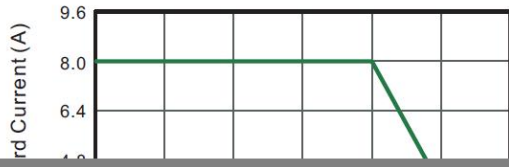
- 1) Measured at 1MHz and applied reverse voltage of 4 V D.C.
- 2) P.C.B. mounted with 2.0 X 2.0" (5 X 5 cm) copper pad areas.

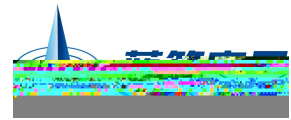
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	数值 Rating								Unit
			SS82C	SS84C	SS86C	SS88C	SS810C	SS812C	SS815C	SS820C	
Max Instantaneous Forward Voltage	V_F	$I_F=8.0A$	0.45	0.55	0.70	0.85				V	
Maximum DC Reverse Current at Rated DC Reverse Voltage	I_R	$T_a=25^{\circ}C$	1.0								mA
		$T_a=100^{\circ}C$	50								



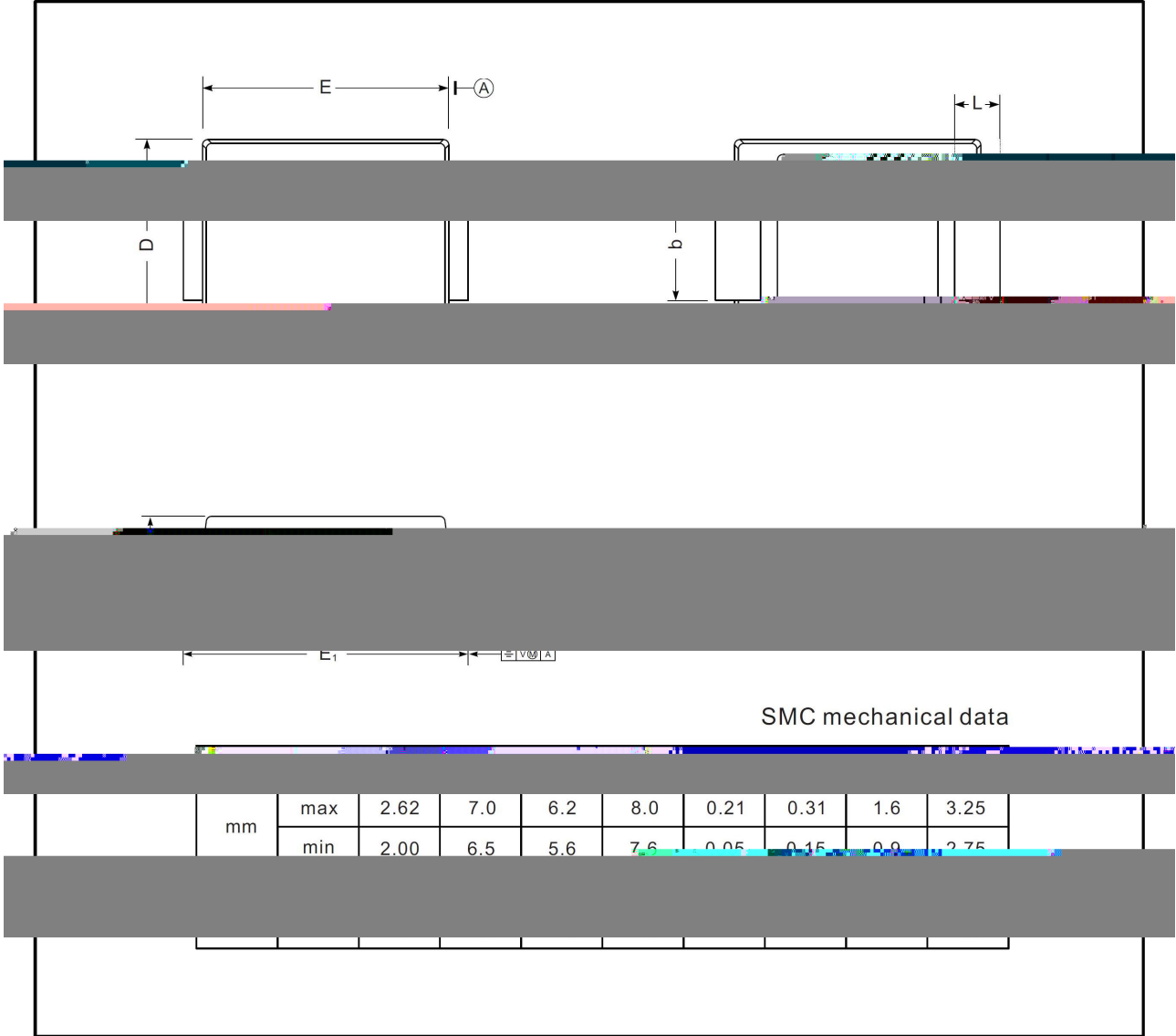
/ Electrical Characteristic Curve





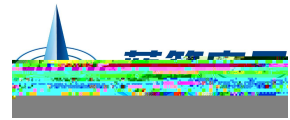
/ Package Dimensions

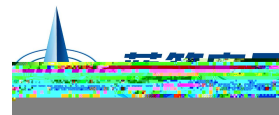
SMC



SMC mechanical data

mm	max	2.62	7.0	6.2	8.0	0.21	0.31	1.6	3.25
	min	2.00	6.5	5.6	7.6	0.05	0.15	0.9	2.75





/ Marking Instructions



SS82

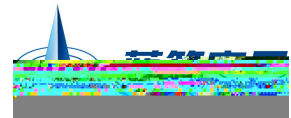
1 *

3 *

Note:

SS82 Product Type Code

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



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