

SS52C~SS520C

Rev. B Feb.-2021



DATA SHEET

/ Revised record

A	2017-11				
B	2021-2-9	2/8	SS58C IFSM 175 150 VF 0.7 0.85; SS52C VF 0.45 0.55		

/ Descriptions

20~200V

5.0A SMC

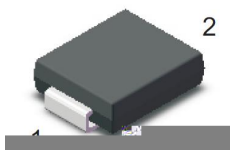
Surface Mount Schottky Barrier Rectifier, Reverse Voltage: 20 to 200 V, Forward Current:5.0A ,SMC package.

/ 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)

参数 Parameter	符号 Symbol	数值 Rating								单位 Unit
		SS52C	SS54C	SS56C	SS58C	SS510C	SS512C	SS515C	SS520C	
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)}	5.0								A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	175			150					A
Typical Junction Capacitance ¹⁾	C _i	600		400						pF
Typical Thermal Resistance ²⁾	R _{θJA}	35								℃/W
Operating Junction Temperature Range	T _j	-55~+150								℃
Storage Temperature Range	T _{stg}	-55~+150								℃

Note:

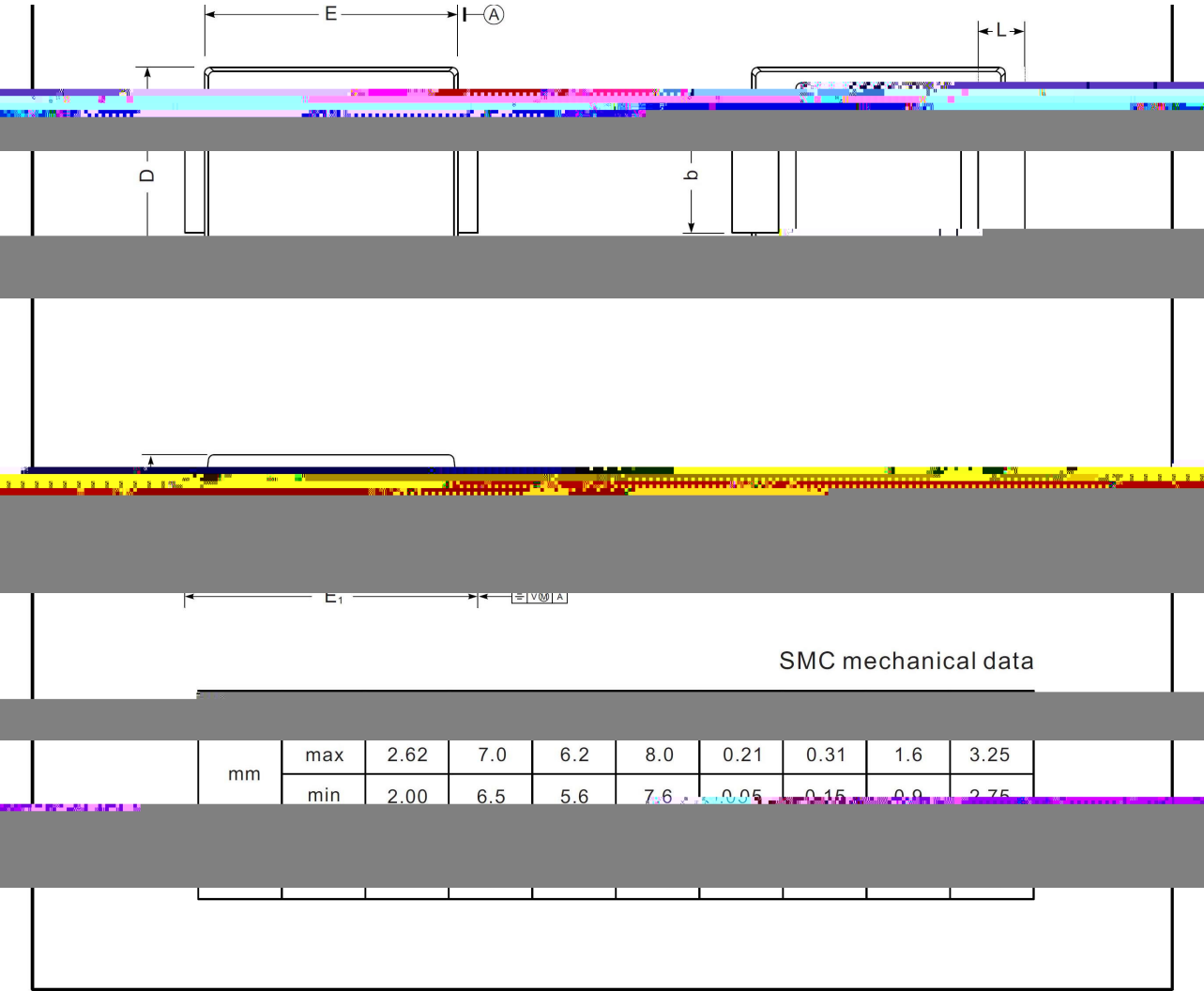
- 1) Measured at 1MHz and applied reverse voltage of 4 V D.C.
- 2) P.C.B. mounted with 2.0 X 2.0" (5 X 5 cm) copper pad areas.

/ Electrical Characteristics(Ta=25)

参数 Parameter	符号 Symbol	测试条件 Test Conditions	数值 Rating								单位 Unit
			SS52C	SS54C	SS56C	SS58C	SS510C	SS512C	SS515C	SS520C	
Max Instantaneous Forward Voltage	V _F	I _F =5.0A	0.55		0.70	0.85					V
Maximum DC Reverse Current at Rated DC Reverse Voltage	I _R	T _a =25℃	1.0								mA
		T _a =100℃	50								

/ Electrical Ch□ c □

/ Package Dimensions



/ **Marking Instructions**

Marking

Type number	Marking code
SS52C	00



/ Marking Instructions



SS52

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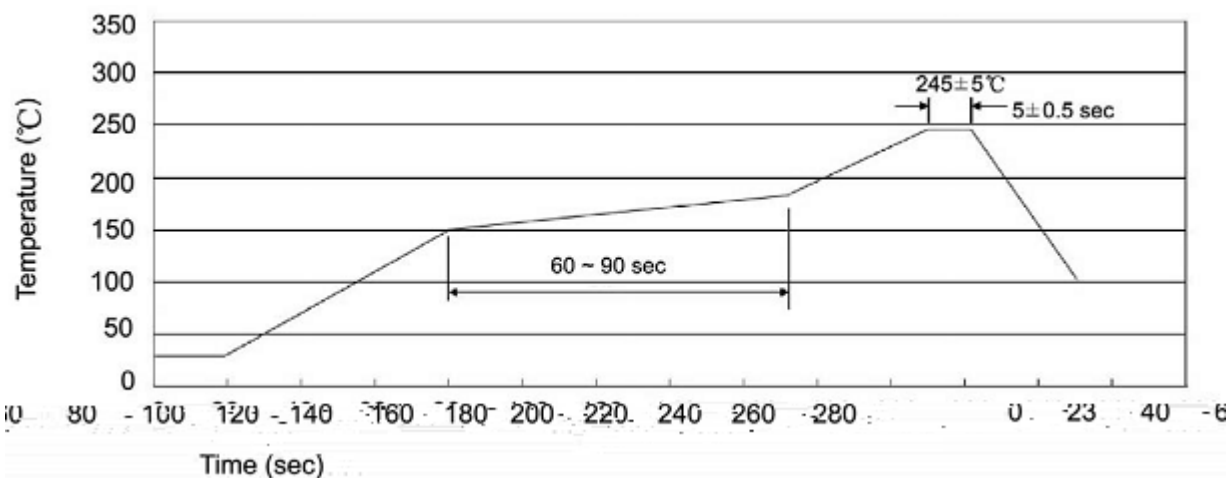
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Note:

SS52 Product Type Code

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

() / Temperature Profile for IR Reflow Soldering(Pb-Free)



说明：

- 1、预热温度 25 ~ 150°C，时间 60 ~ 90sec;
- 2、峰值温度 245±5°C，时间持续为 5±0.5sec;
- 3、焊接制程冷却速度为 2 ~ 10°C/sec.

Note:

- 1.Preheating:25~150°C, Time:60~90sec.
- 2.Peak Temp.:245±5°C, Duration:5±0.5sec.
3. Cooling Speed: 2~10°C/sec.

/ Resistance to Soldering Heat Test Conditions

温度：260±5°C

时间：10±1 sec.

Temp.:260±5°C

Time:10±1 sec

/ Packaging SPEC.

卷盘包装 / REEL

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

/ Notices