

/ Revised record

A	2018-5				
B	2021-2-18	7			

SSL54C~SSL510C

Rev.B Feb.-2021



DATA SHEET

40~100V

5.0A SMC

Surface Mount Schottky Barrier Rectifier, Reverse Voltage: 40 to 60 V, Forward Current:5.0A ,SMC
pac

3014

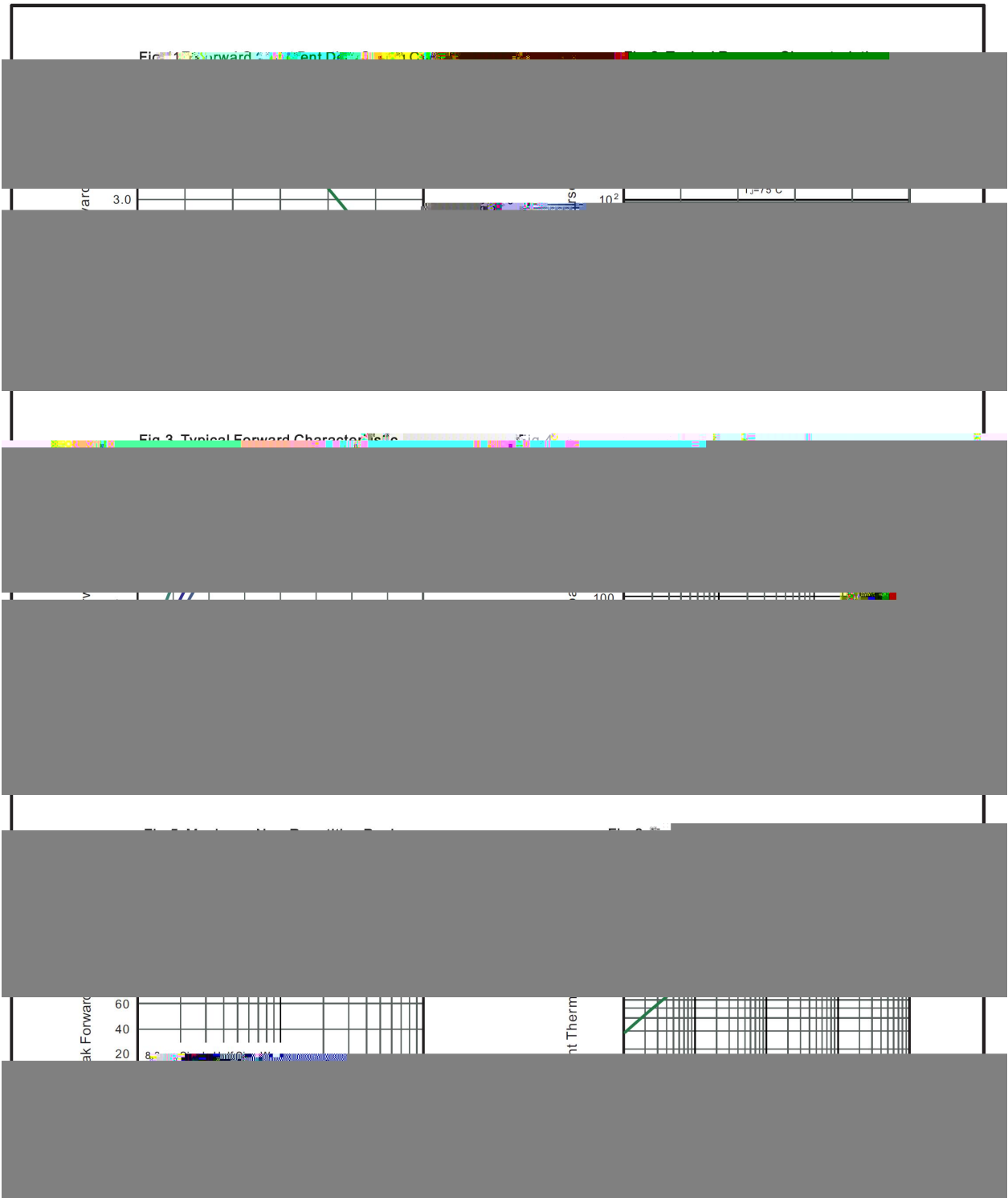
参数 Parameter	符号 Symbol	数值 Rating					Unit
		SSL54C	SSL545C	SSL55C	SSL56C	SSL510C	
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	40	45	50	60	100	V
Maximum RMS voltage	V _{RMS}	28	32	35	42	70	V
Maximum DC Blocking Voltage	V _{DC}	40	45	50	60	100	V
Maximum Average Forward Rectified Current	I _{F (AV)}	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	500	300				pF
Typical Thermal Resistance ²⁾	R _{θJA}	60					°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.

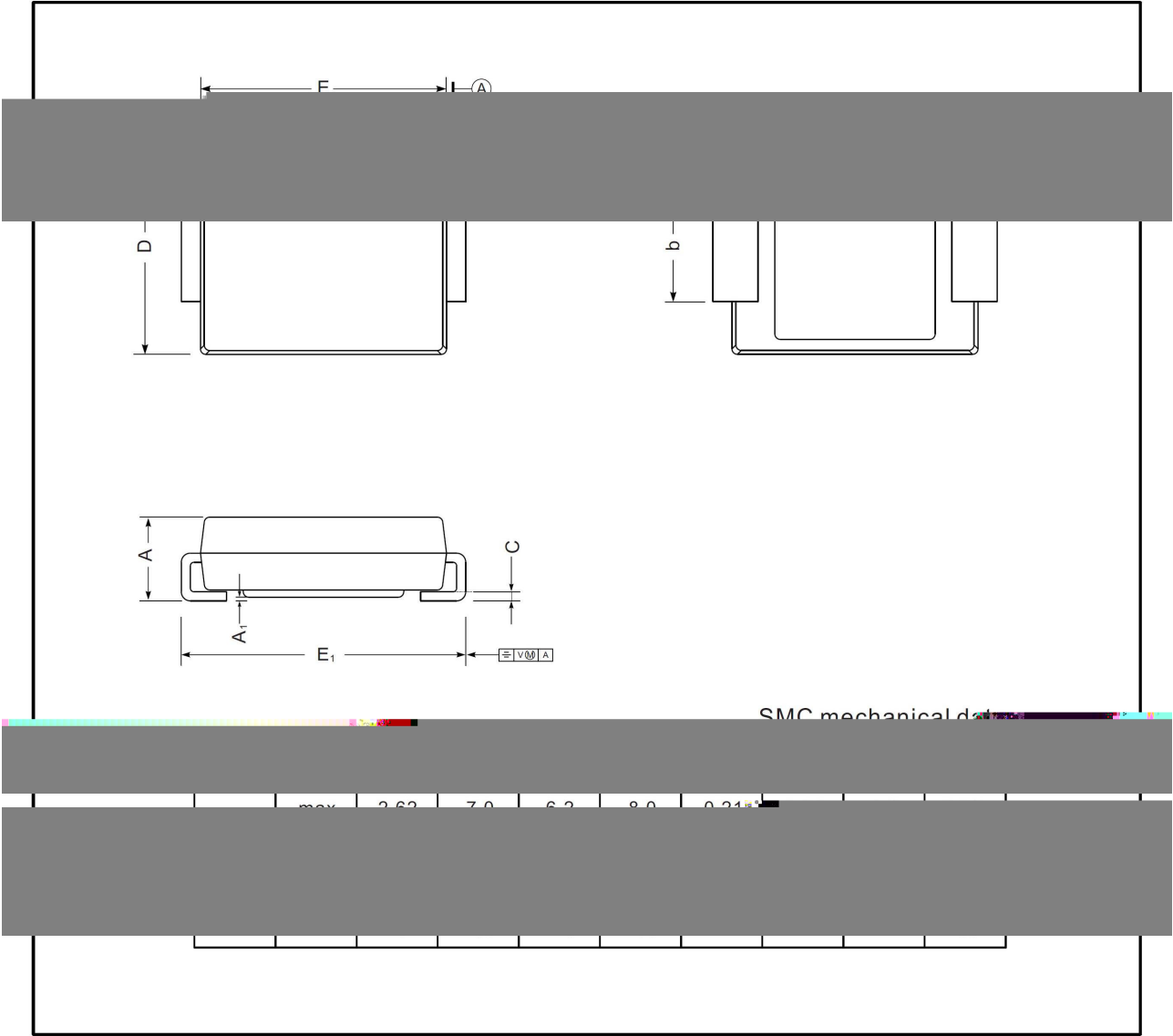
参数 Parameter	符号 Symbol	条 Test Conditions	数值 Rating					Unit
			SSL54C	SSL545C	SSL55C	SSL56C	SSL510C	
Max Instantaneous Forward Voltage	V _F	I _F =5.0A	0.45			0.50	0.60	V
Maximum DC Reverse Current at Rated DC Reverse Voltage	I _R	T _a =25℃	0.5					mA
		T _a =100℃	5.0					

/ Electrical Characteristic Curve



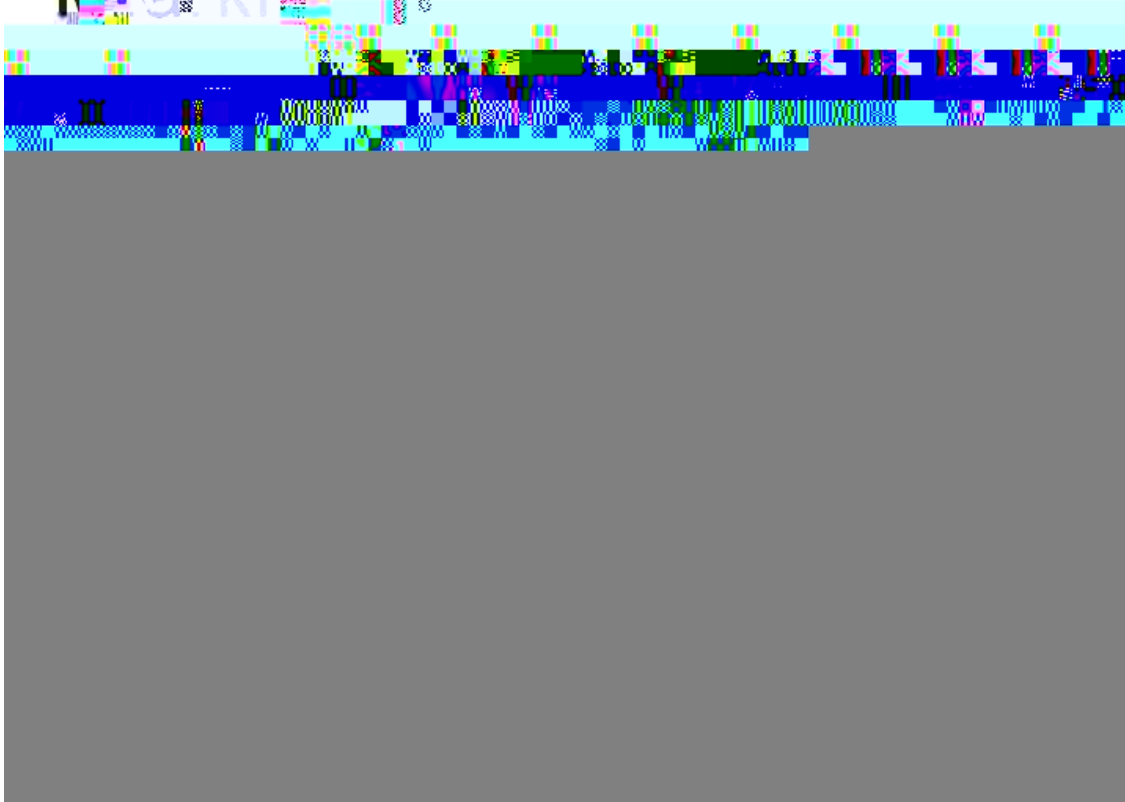
/ Package Dimensions

SMC

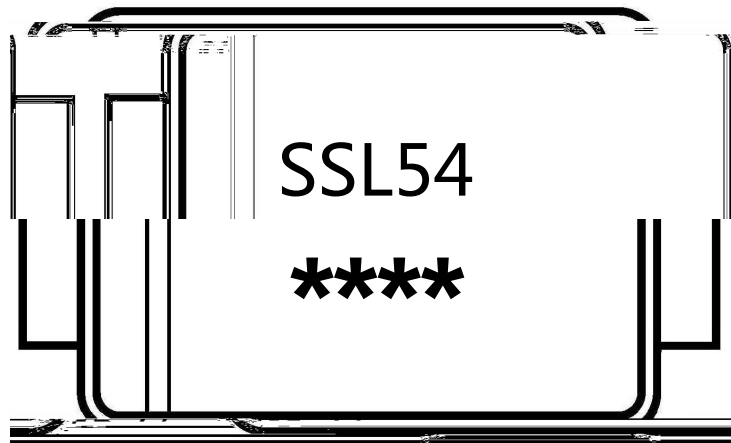


/ Marking Instructions

Marking



/ Marking Instructions



SSL54

1 *

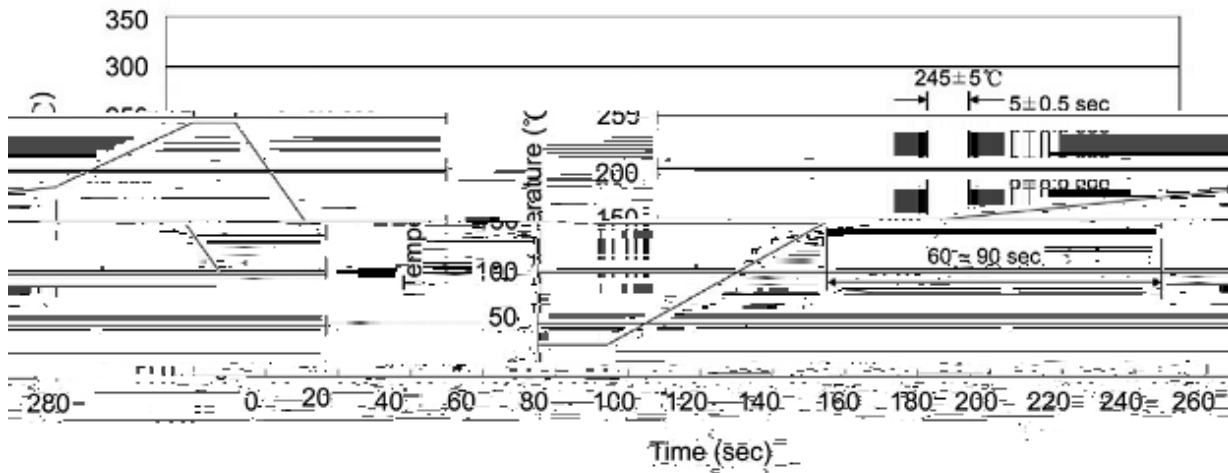
3 *

Note:

SSL54 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)



Note:

- | | | | |
|---|-------------|-----------|--|
| 1 | 150 180 | 60 90sec; | 1.Preheating:150~180°C, Time:60~90sec. |
| 2 | 245±5 | 5±0.5sec; | 2.Peak Temp.:245±5°C, Duration:5±0.5sec. |
| 3 | 2 10°C/sec. | | 3. Cooling Speed: 2~10°C/sec. |

/ Resistance to Soldering Heat Test Conditions

260±5°C 10±1 sec. Temp.:260±5°C Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (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 盒	Outer Box 箱
SMC	3000	2	6000	6	36000	13" ×16	337X337X49	380X335X366

/ Notices