

Rev.B Jun.-2021



50V~600V 2.0A SMA

Surface Mount Superfast Recovery Rectifier,Reverse Voltage:50 to600V,Forward Current:2.0A, SMA package.



RoHS 2011/65/EU

Glass Passivated Chip Junction, Superfast reverse recovery time, Lead free in comply with EU R0HS 2011/65/EU directives, For surface mounted applications.Halogen free product.



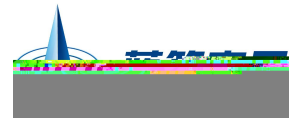
General purpose.



PIN	DESCRIPTION
1	



See Marking Instructions



参数 Parameter	符号 Symbol	数值 Rating							单位 Unit
		ES2A	ES2B	ES2C	ES2D	ES2E	ES2G	ES2J	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	150	200	300	400	600	V
Maximum RMS voltage	V_{RMS}	35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage	V_{DC}	50	100	150	200	300	400	600	V
Maximum Average Forward Rectified Current at $T_c = 125^\circ C$	$I_{F(AV)}$	2.0							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}	50							A
Typical Junction Capacitance at $V_R = 4V, f = 1MHz$	C_j	40							pF
Typical Thermal Resistance ¹⁾	$R_{\theta JA}$	60							$^\circ C/W$
Operating and Storage Temperature Range	T_j, T_{stg}	-55~+150							$^\circ C$

1) P.C.B. mounted with 1.0 X 1.0" (2.54 X 2.54 cm) copper pad areas.

参数 Parameter	符号 Symbol	测试条件 Test Conditions	数值 Rating							单位 Unit
			ES2A	ES2B	ES2C	ES2D	ES2E	ES2G	ES2J	
Maximum Forward Voltage	V_F	$I_F = 2.0A$	1.0				1.25		1.68	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_a = 25^\circ C$	5.0							μA
		$T_a = 125^\circ C$	100							μA
Maximum Reverse Recovery Time	t_{rr}	$I_F = 0.5A$ $I_R = 1.0A$ $I_{rr} = 0.25A$	35							ns

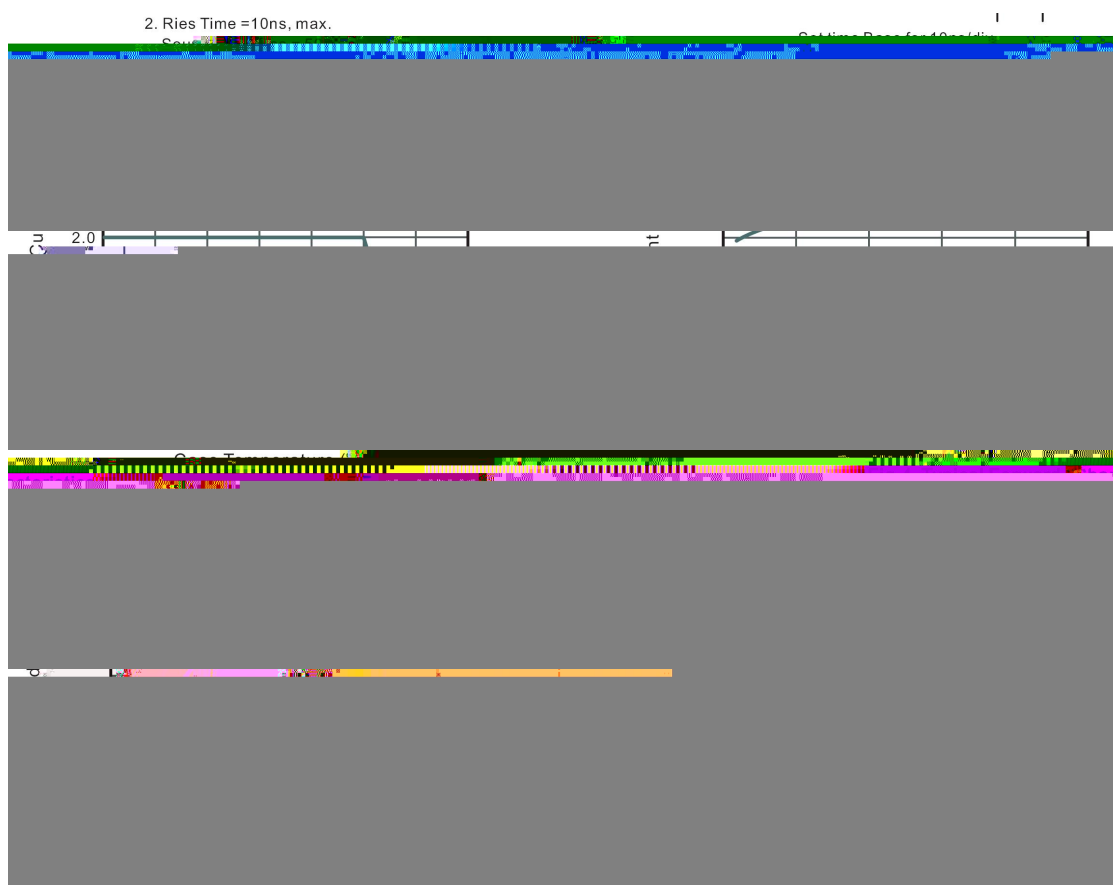
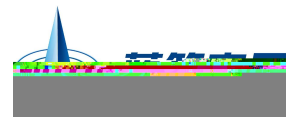
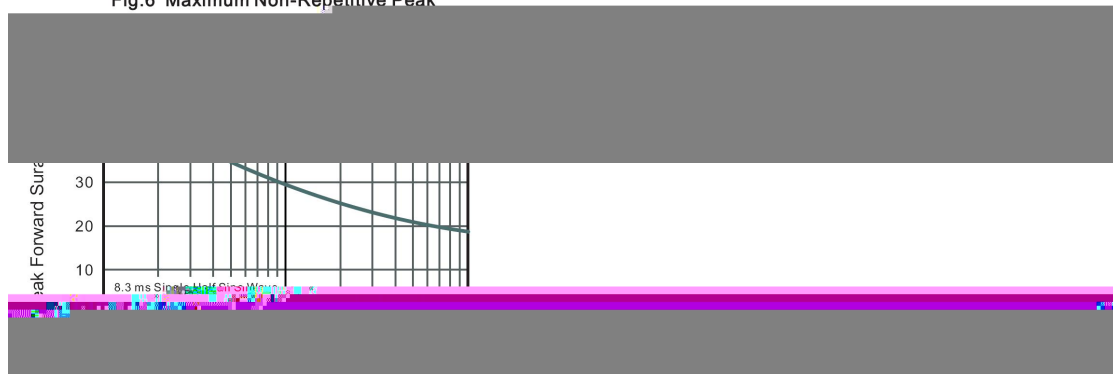
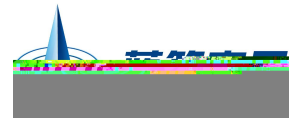
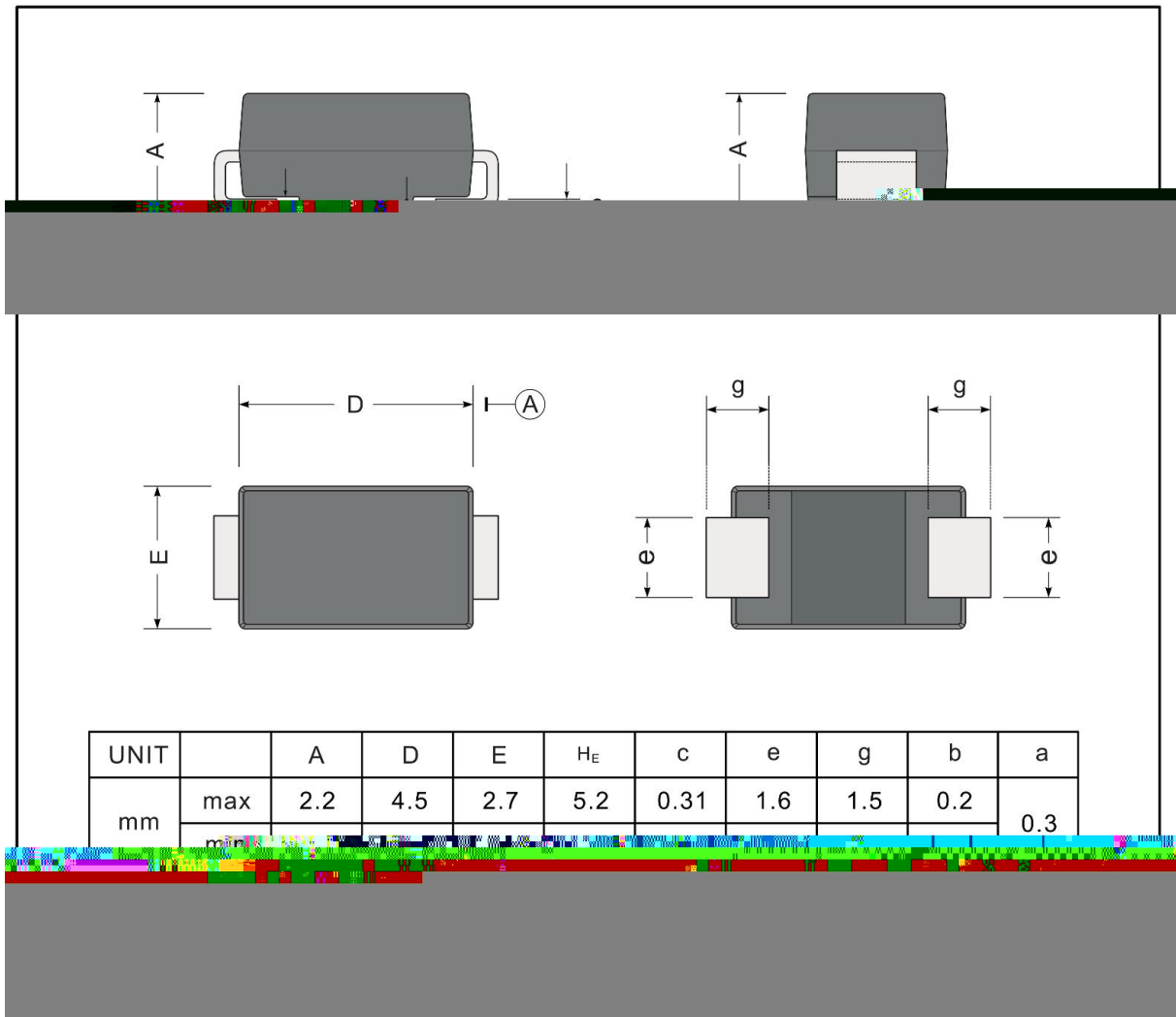


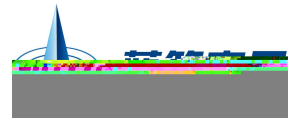
Fig.6 Maximum Non-Repetitive Peak





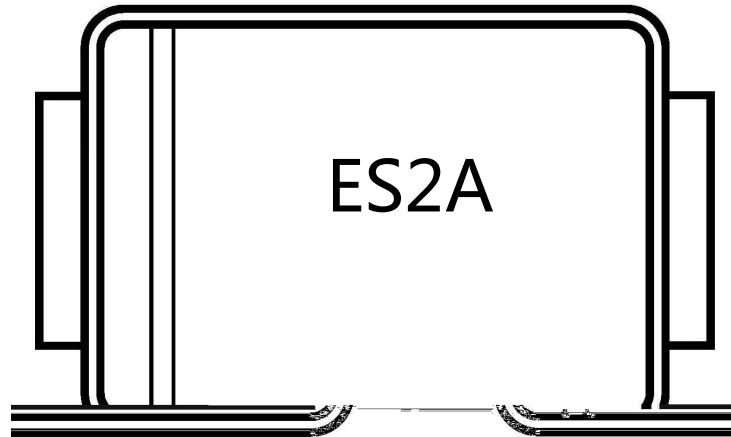
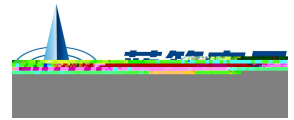
SMA





Marking

[REDACTED]	
ES2A	ES2A
[REDACTED]	
ES2B	ES2B
[REDACTED]	
ES2C	ES2C
[REDACTED]	
ES2D	ES2D
[REDACTED]	
ES2E	ES2E
[REDACTED]	
ES2G	ES2G
ES2J	ES2J



说明：

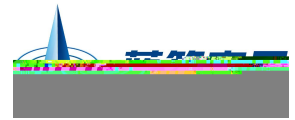
ES2A： 为型号代码

： 为生产批号追溯码，第 1 个*为年月代码，后面 3 个*为当月小批号代码

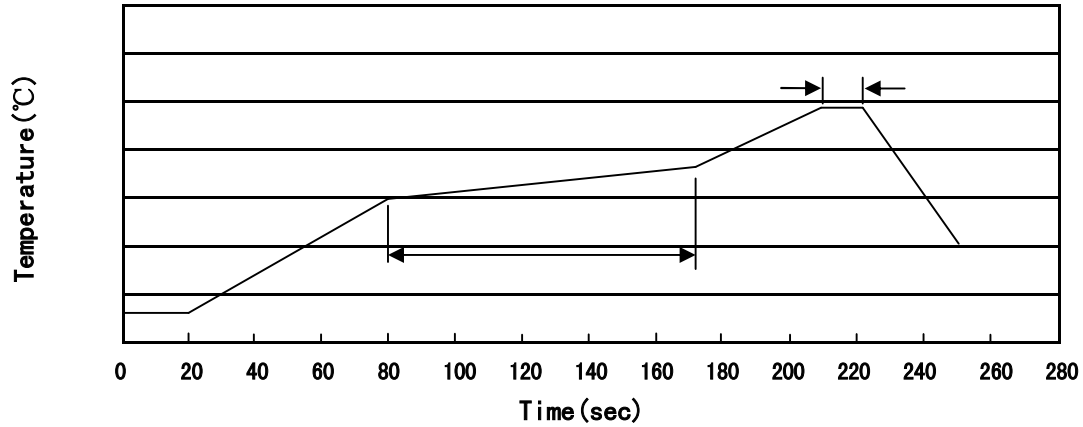
Note:

ES2A： 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. |

260±5°C

10±1 sec.

Temp.:260±5°C

Time:10±1 sec

/ 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
SMA	5000	2	10000	7	70000	13" x12	336X336X40	380X335X366