

Rev.D May.-2017

50V~600V

1.0A

SOD-123FL

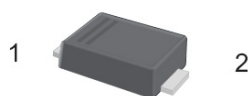
Surface Mount Superfast Recovery Rectifiers, Reverse Voltage 50 to 600V, Forward Current 1.0A, SOD-123FL thin package.

RoHS

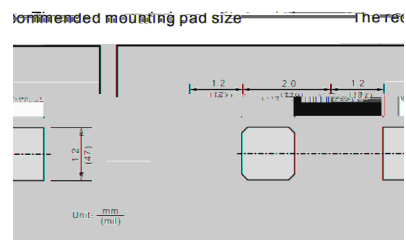
2011/65/EU

Superfast recovery times for high efficiency, Lead free in comply with EU RoHS 2011/65/EU directives, For surface mounted applications. Halogen free product.

General purpose.



PIN	DESCRIPTION
1	Cathode
2	Anode



See Marking Instructions.

Parameter	Symbol	Rating							Unit
		ES1AW	ES1BW	ES1CW	ES1DW	ES1EW	ES1GW	ES1JW	
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 $T_L = 100$	$I_{F\ AV}$	1.0							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	30							A
Typical Junction Capacitance at $V_R=4V$, $f=1MHz$	C_j	10							pF
Typical Thermal Resistance ¹	$R_{\theta JA}$	120							/W
Operating and Storage Temperature Range	T_j, T_{stg}	-55~+150							

Note:

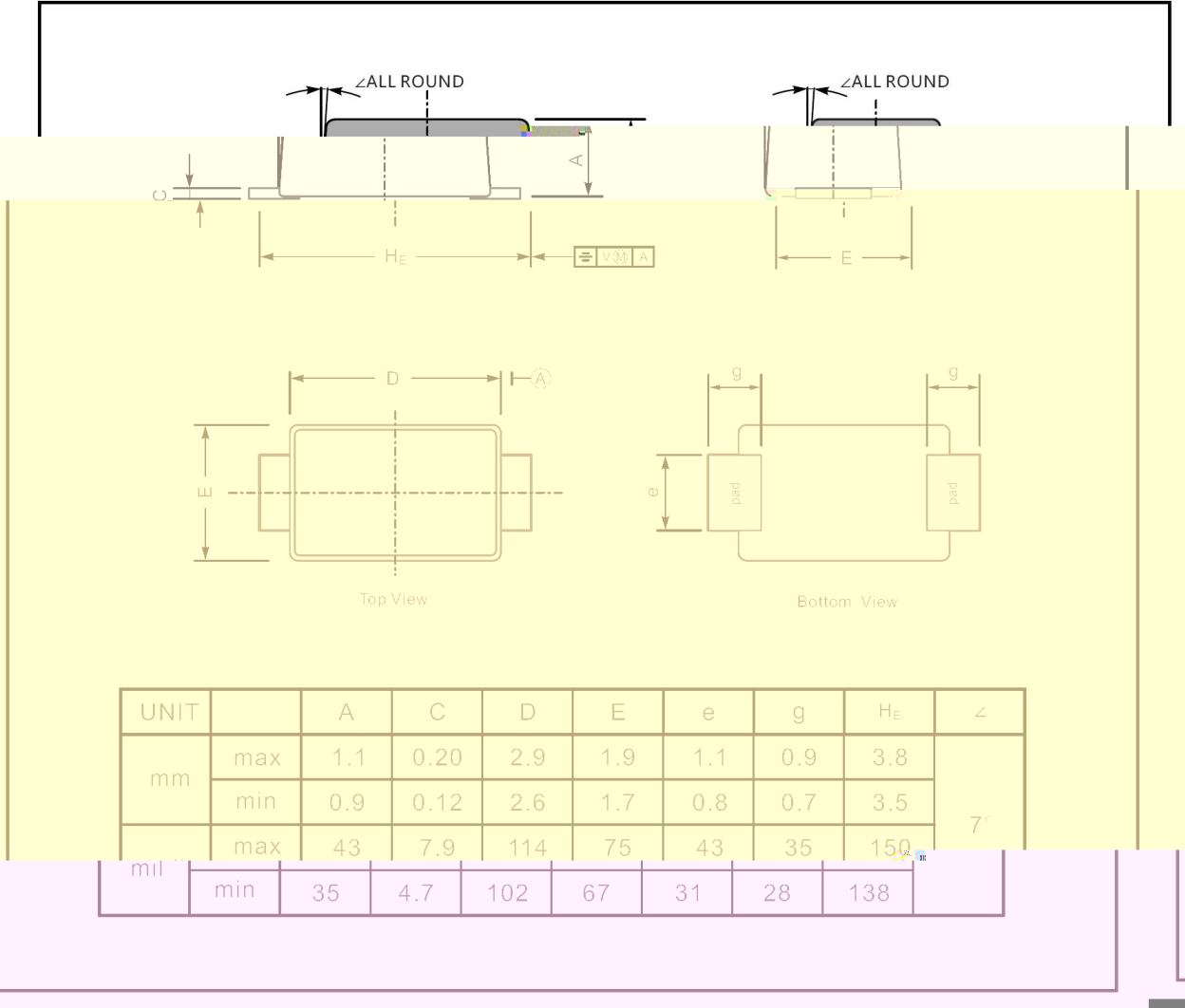
1 P.C.B. mounted with 0.2 X 0.2" (5 X 5 mm) copper pad areas.

Parameter	Symbol	Test Conditions	Rating							Unit
			ES1AW	ES1BW	ES1CW	ES1DW	ES1EW	ES1GW	ES1JW	
Maximum Forward Voltage	V _F	I _F =1.0A	1.0				1.25		1.68	V
Maximum DC Reverse Current at Maximum DC Blocking Voltage	I _R	T _a =25	5.0							μA
		T _a =125	100							μA
Maximum Reverse Recovery Time	T _{rr}	I _F =0.5A I _R =1A I _{rr} =0.25A	35							ns

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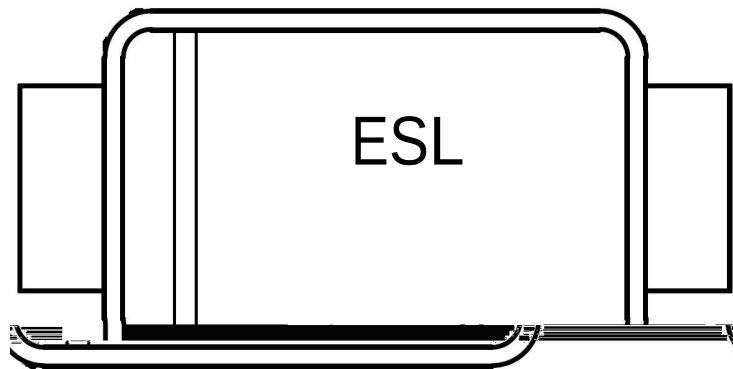


SOD-123FL



Marking

Type number	Marking code
ES1AW	ESL
ES1BW	
ES1CW	
ES1DW	
ES1EW	ESM
ES1GW	
ES1JW	ESH



ESL

1 *

3 *

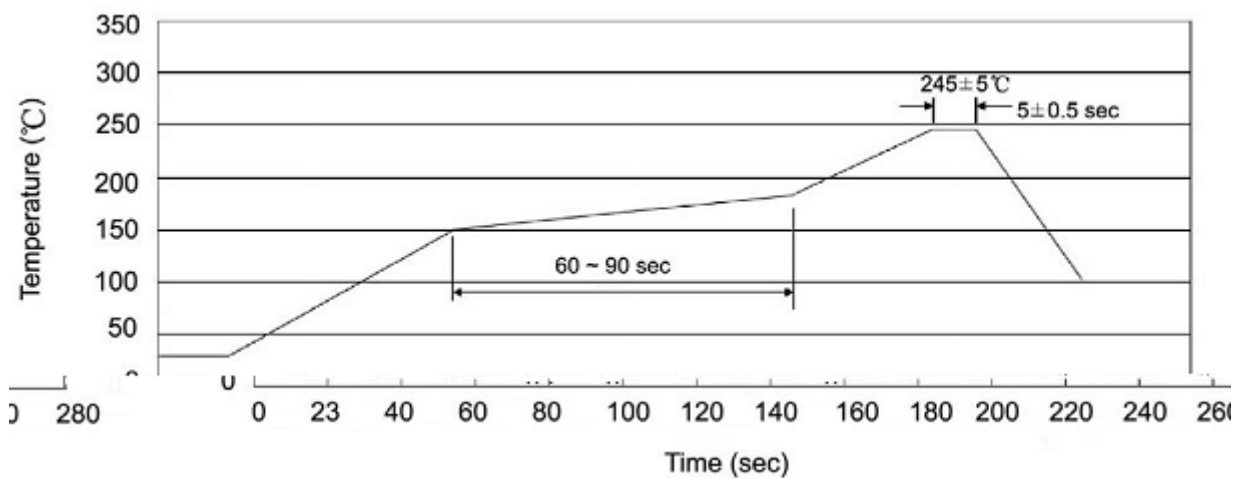
Note:

ESL Product Type Code

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

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Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

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

260±5	10±1 sec.	Temp.:260±5	Time:10±1 sec
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/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	只 卷盘	卷盘 盒	只 盒	盒 箱	只 箱		盒	箱
SOD-123FL	3000	8	24000	5	120000	7 ×11	185X180X105	390X385X205