

Rev.A Mar.-2018

50V~1000V

1.0A

SOD-123FL

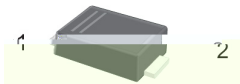
Surface Mount Ultrafast Recovery Rectifier, Reverse Voltage: 50 to 1000V, Forward Current: 1.0A, SOD-123FL package.

2011/65/EU

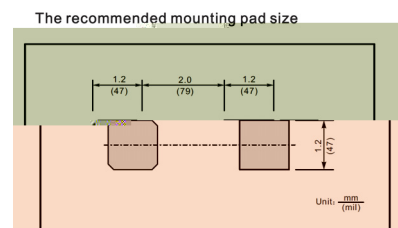
RoHS

Glass Passivated Chip Junction High efficiency Lead free in comply with EU R HS 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
		US1AW	US1BW	US1DW	US1GW	US1JW	US1KW	US1MW	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at $T_C = 125$	$I_{F\ AV}$	1.0							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	30							A

Note:

- 1) P.C.B. mounted with 2.0 X 2.0" (5 X 5 cm) copper pad areass .

Parameter	Symbol	Test condition	Rating							Unit
			US1AW	US1BW	US1DW	US1GW	US1JW	US1KW	US1MW	
Maximum Instantaneous Forward Voltage	V _F	I _F =1.0A	1.0			1.3	1.65			V
Maximum DC Reverse Current at Maximum DC Blocking Voltage	I _R	T _a =25	5.0							uA
		T _a =125	100							
Maximum Reverse Recovery Time	T _{rr}	I _F =0.5A I _R =1.0A I _{rr} =0.25A	50				75			ns

Fig.1 Forward Current Derating Curve

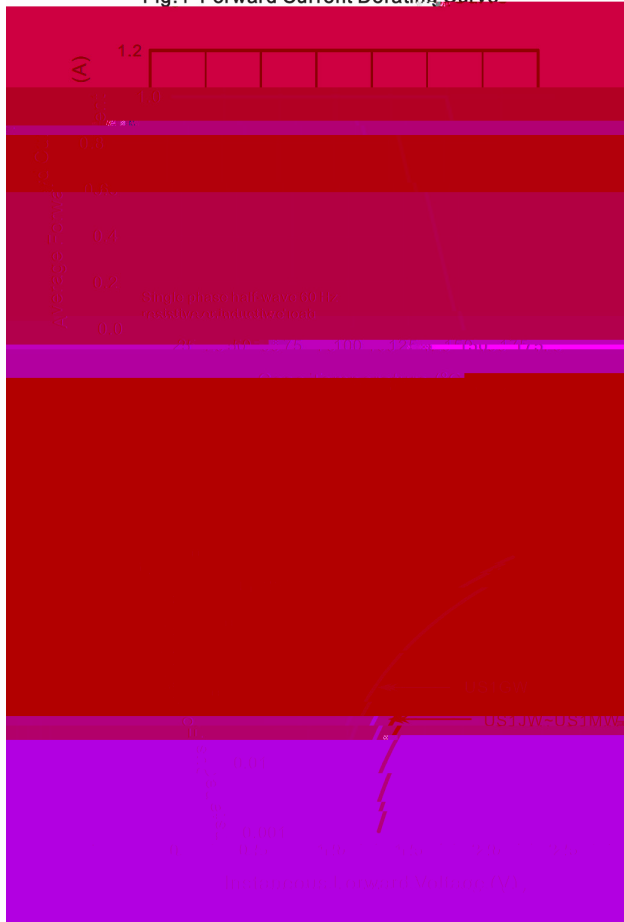
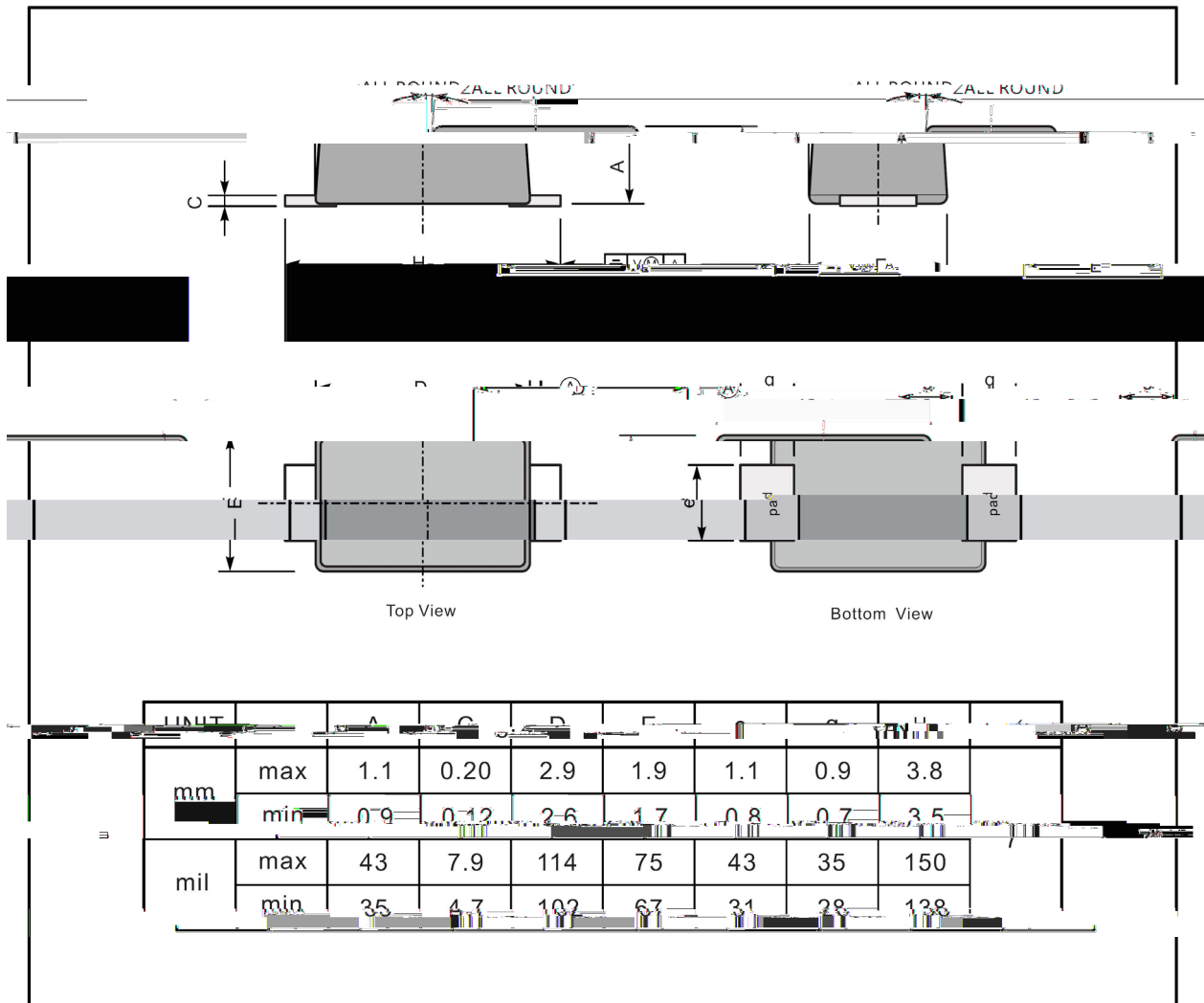


Fig.2 Typical Reverse Characteristics

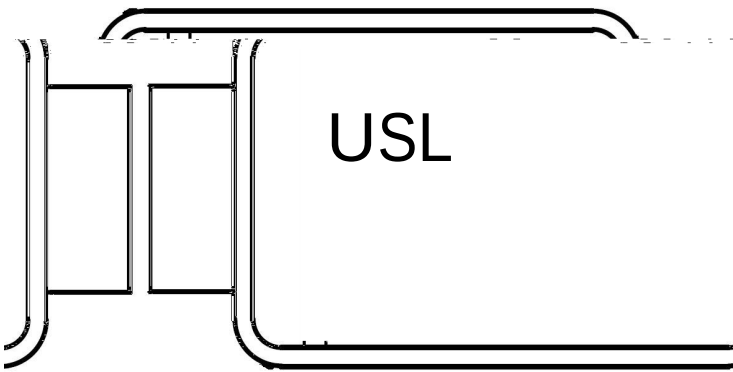


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Marking

Type number	Marking code
US1AW	USL
US1BW	
US1DW	
US1GW	USM
US1JW	USH
US1KW	
US1MW	



USL

1 *

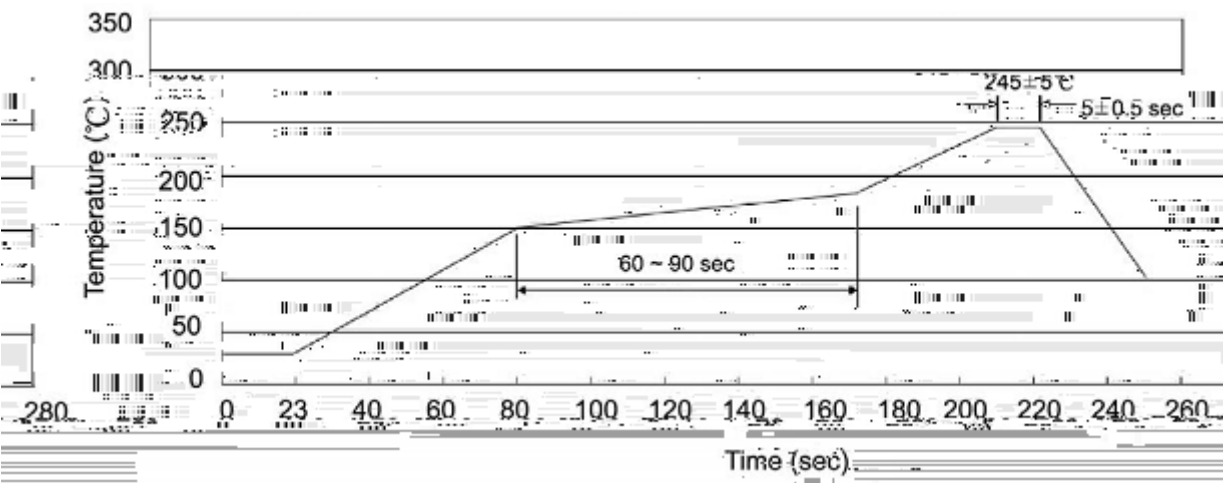
3 *

Note:

USL 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

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

/ 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