

# FR101W~FR107W

Rev.F Apr.-2024

## / Descriptions

50V ~ 1000V      1.0A      SOD-123FL  
Surface Mount Fast Recovery Rectifiers    Reverse Voltage    50 to 1000V, Forward Current    1.0A,  
SOD-123FL thin package.

## / Features

RoHS      2011/65/EU  
Glass Passivated Chip Junction, Fast reverse recovery time, Lead free in comply with EU R HS  
2011/65/EU directives, For surface mounted applications, HF Product.

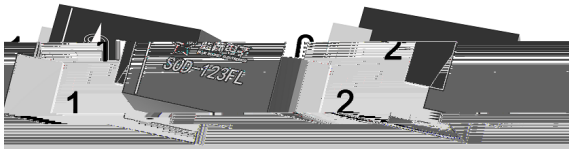
## / Applications

General purpose.

## / Equivalent Circuit

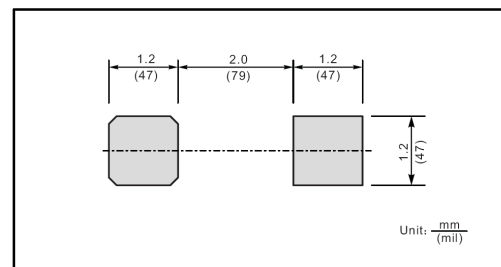


## / Pinning



PIN	DESCRIPTION
1	Cathode
2	Anode

The recommended mounting pad size



## / Marking

Type number	FR101W	FR102W	FR103W	FR104W	FR105W	FR106W	FR107W
Marking code	F2			F5		F7	

Parameter	Symbol	Rating	Unit
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/ Electrical Characteristic Curve

Fig.1 Forward Current Derating Curve

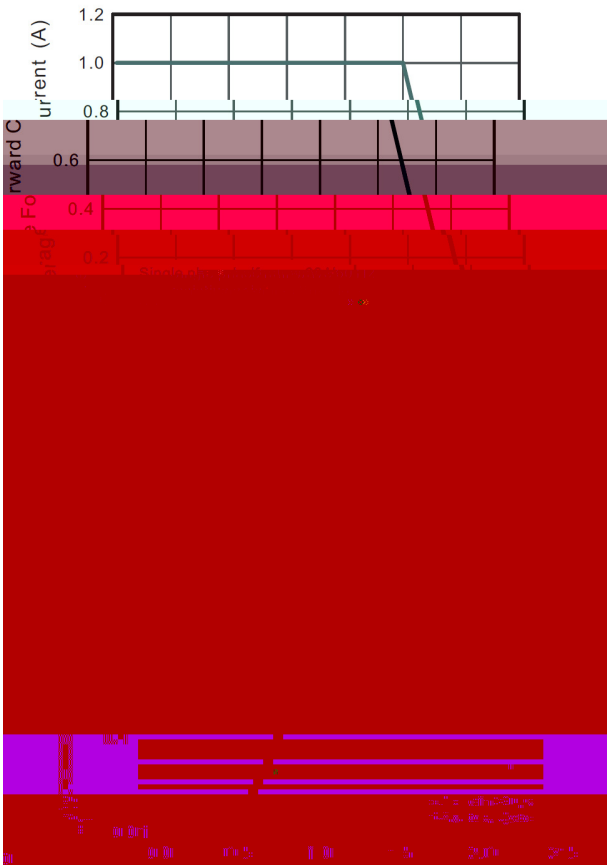
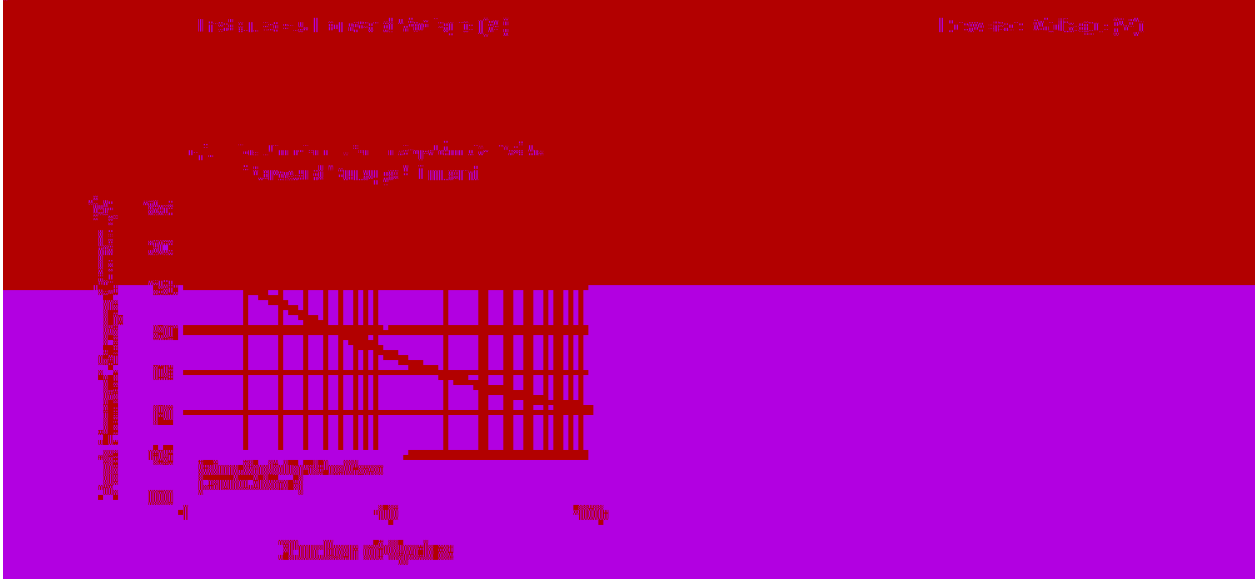
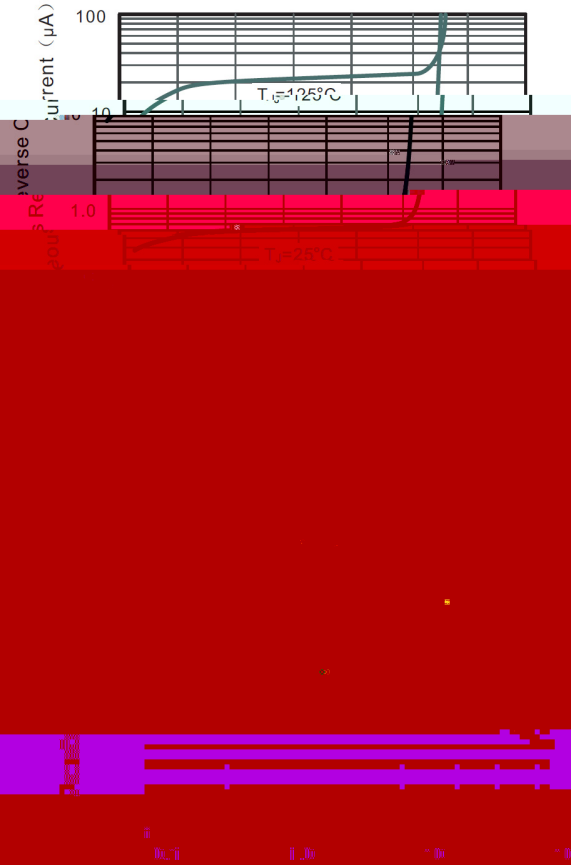
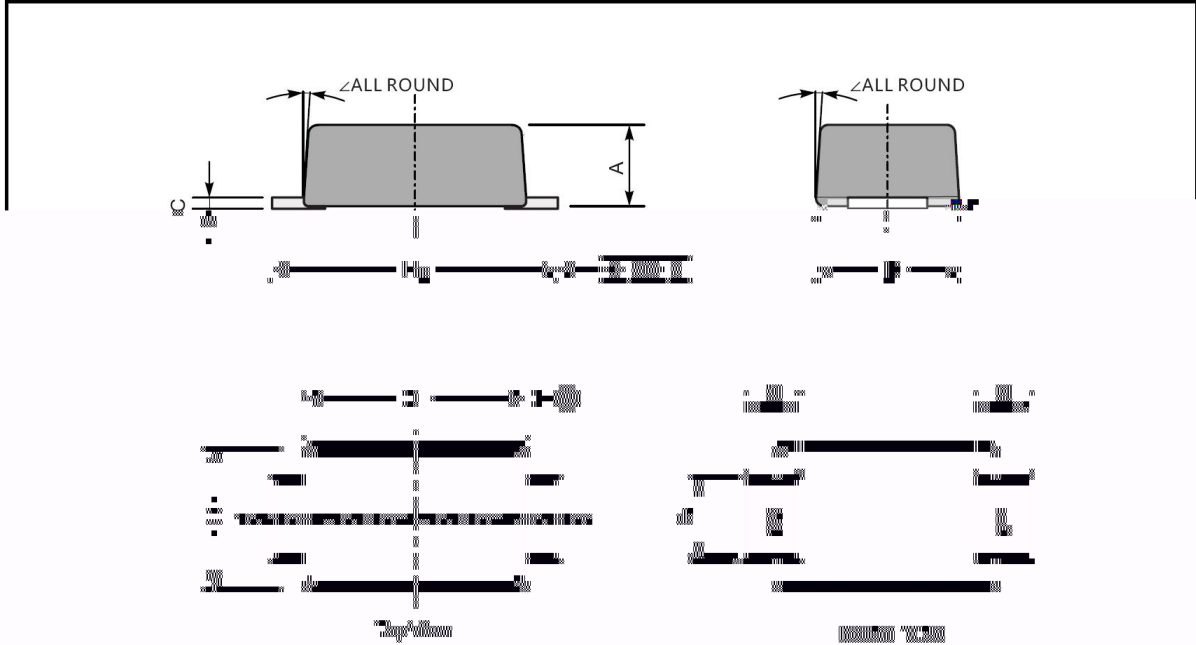


Fig.2 Typical Reverse Characteristics



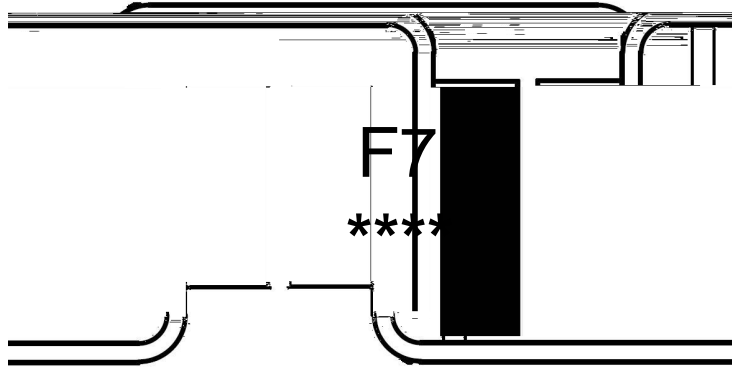
/ Package Dimensions

SOD-123FL



Symbol	Symbol	Symbol	Symbol	Symbol	Symbol	Symbol	Symbol	Symbol

**/ Marking Instructions**



F7  
\*\*\*\*

Note:

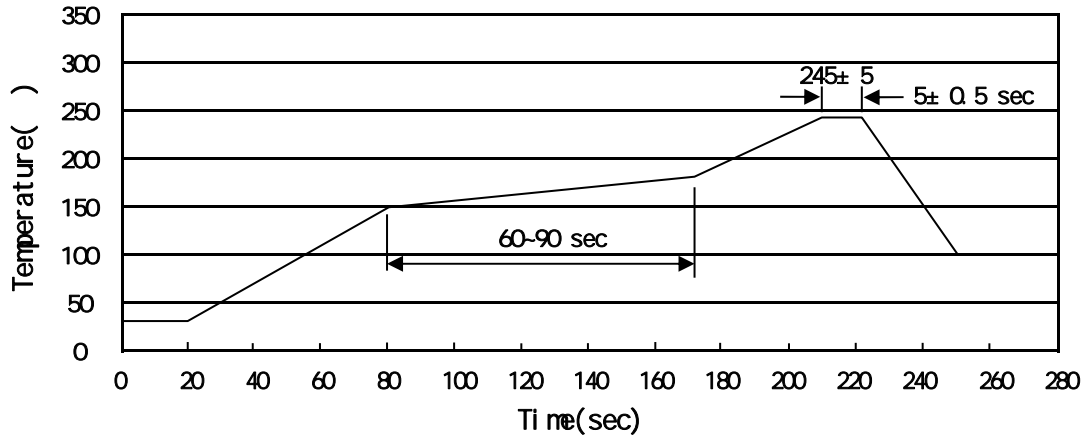
F7      Product Type Code

\*\*\*\*      Lot No. Code, code change with Lot No

**Marking**

Type number	Marking code
FR101W	F2
FR102W	
FR103W	
FR104W	
FR105W	F5
FR106W	F7
FR107W	

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



Note:

- |   |       |     |    |           |   |
|---|-------|-----|----|-----------|---|
| 1 | 150   | 180 | 60 | 90sec;    | 1.Preheating:150~180 , 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.            |

/ Resistance to Soldering Heat Test Conditions

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

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm <sup>3</sup> )		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SOD-123FL	3,000	8	24,000	6	144,000	7 x8	185x180x105	390x385x205

/ Notices