

## / Descriptions

Surface Mount Ultrafast Recovery Rectifier,Reverse Voltage:50 to1000V,Forward Current:2.0A,  
SOD-123FL package.

## / Features

Glass Passivated Chip Junction High efficiency Lead free in comply with EU R0HS 2011/65/EU  
directives For surface mounted applications. Halogen free product.

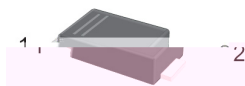
## / Applications

General purpose.

## / Equivalent Circuit

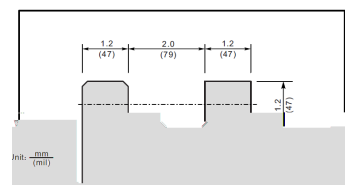


## / Pinning



| PIN | DESCRIPTION |
|-----|-------------|
| 1   | Cathode     |
| 2   | Anode       |

The recommended mounting pad size



## / Marking

See Marking Instructions.



/ Electrical Characteristic Curve

Fig.1 Forward Current Derating Curve

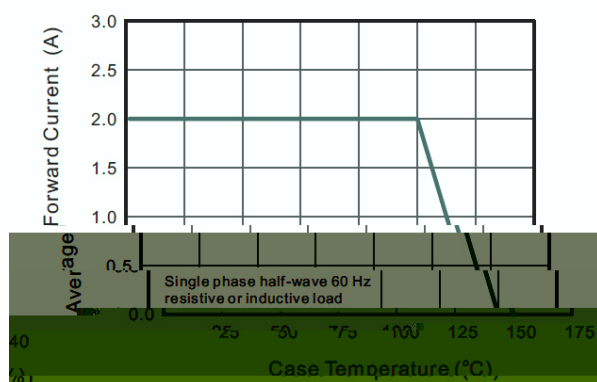


Fig.2 Typical Reverse Characteristics

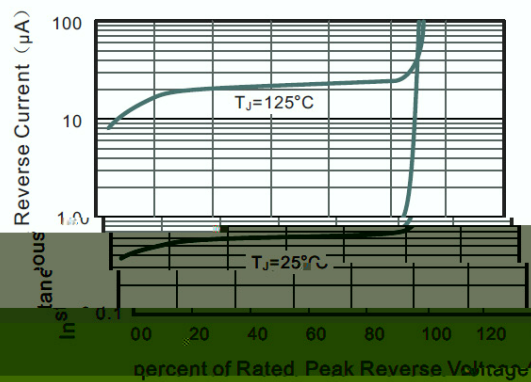


Fig.3 Typical Forward Characteristics

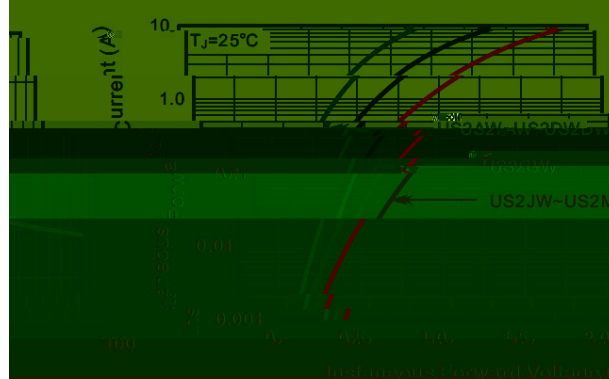
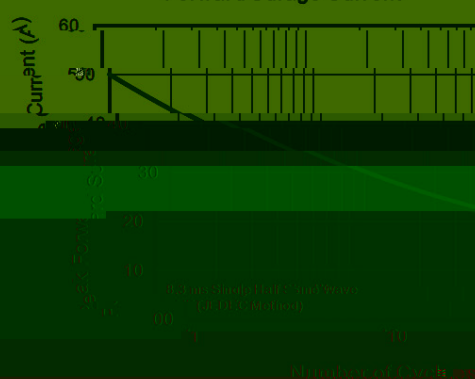
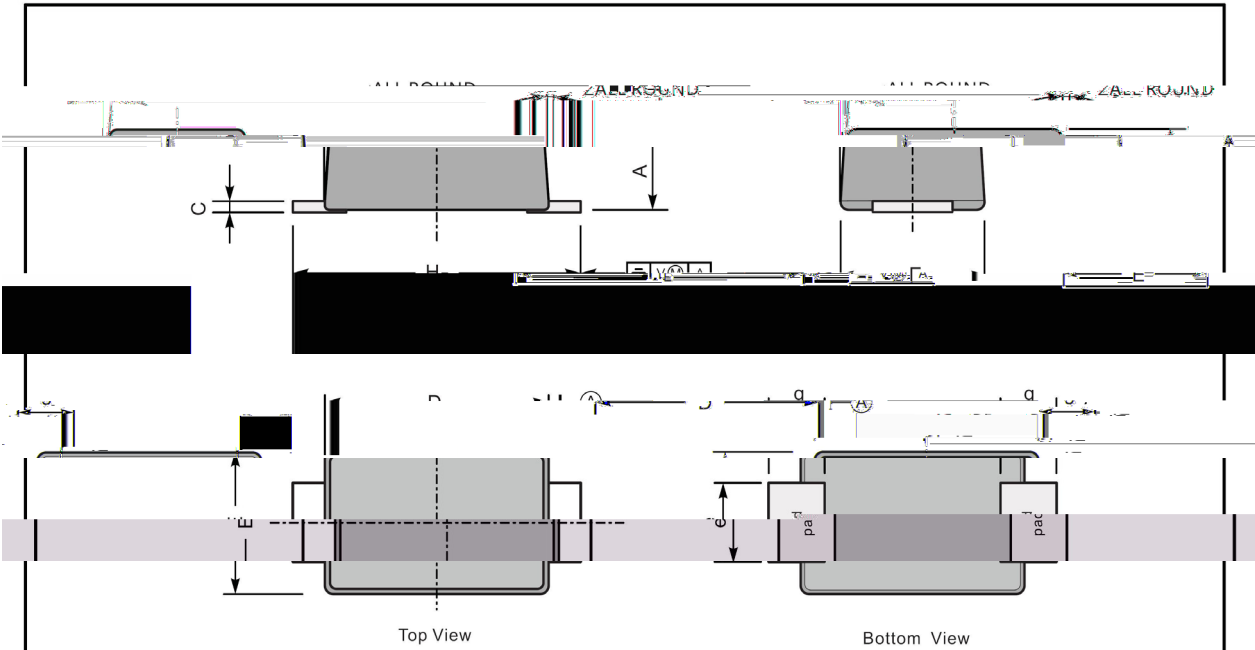


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



/ Package Dimensions

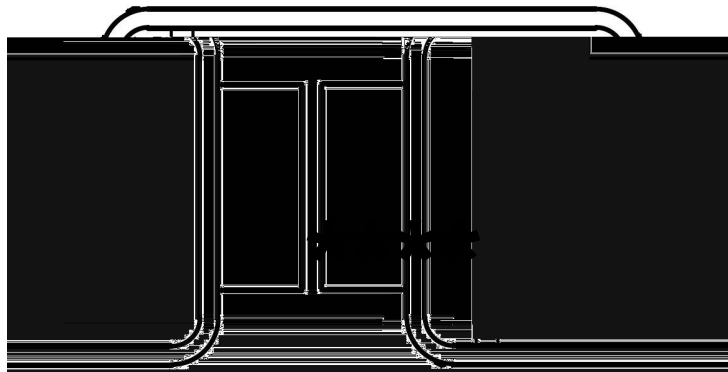
SOD-123FL



| UNIT |     | A   | B    | C   | D   | E   | F   | G   | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
|------|-----|-----|------|-----|-----|-----|-----|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| mm   | max | 1.1 | 0.20 | 2.9 | 1.9 | 1.1 | 0.9 | 3.8 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|      | min | 0.9 | 0.12 | 2.6 | 1.7 | 0.8 | 0.7 | 3.5 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| mil  | max | 43  | 7.9  | 114 | 75  | 43  | 35  | 150 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|      | min | 35  | 4.7  | 102 | 67  | 31  | 28  | 138 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |



/ Marking Instructions



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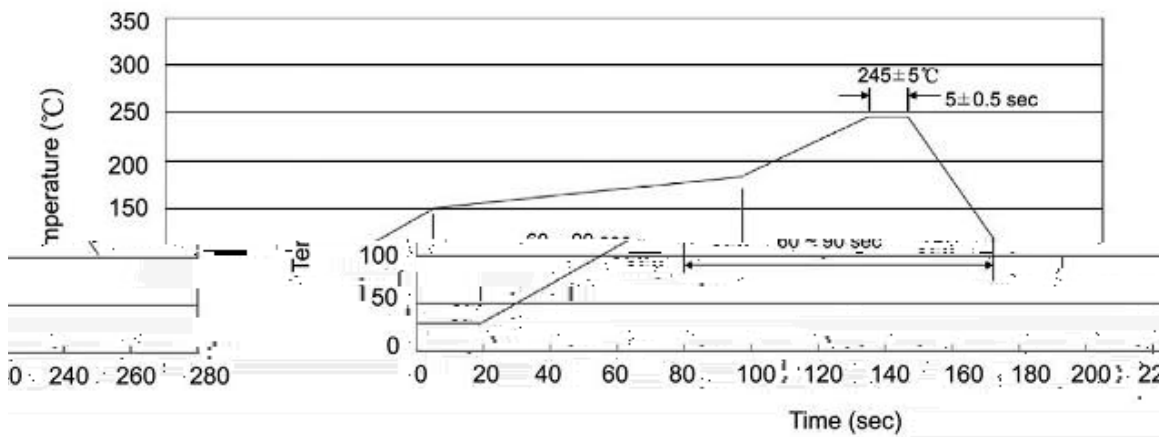
Note:

Product Type Code

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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 , 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<br>封装形式 | Units 包装数量         |                         |                        |                              |                        | Dimension 包装尺寸 (unit: mm <sup>3</sup> ) |             |             |
|----------------------|--------------------|-------------------------|------------------------|------------------------------|------------------------|-----------------------------------------|-------------|-------------|
|                      | Units/Reel<br>只/卷盘 | Reels/Inner Box<br>卷盘/盒 | Units/Inner Box<br>只/盒 | Inner Boxes/Outer Box<br>盒/箱 | Units/Outer Box<br>只/箱 | Reel                                    | Inner Box 盒 | Outer Box 箱 |
| SOD-123FL            | 3000               | 8                       | 24000                  | 5                            | 120000                 | 7 ×11                                   | 185X180X105 | 390X385X205 |

/ Notices