

# SFD15L4W

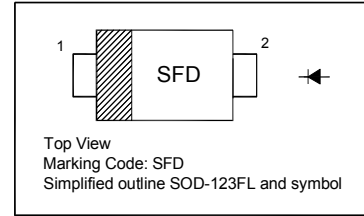
## Surface Mount Superfast Recovery Rectifier

### Features

- Low forward voltage
- Low switching loss

### PINNING

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



### Maximum Ratings And Electrical Characteristics at ( $T_a = 25^\circ\text{C}$ )

| Parameter  | Symbol          | Value         | Unit               |
|--|-----------------|---------------|--------------------|
| Maximum Current Peak Reverse Voltage               | $V_{RM}$        | 400           | V                  |
| Reverse Voltage                                    | $V_R$           | 400           | V                  |
| Maximum Average Forward Current <sup>1)</sup>      | $I_{F(AV)}$     | 1.5           | A                  |
| Non-Repetitive Peak Forward Surge Current (8.3 ms) | $I_{FSM}$       | 50            | A                  |
| Maximum Forward Voltage<br>at $I_F = 1.5$ A        | $V_F$           | 1.2           | V                  |
| Repetitive Reverse Current<br>at $V_R = 400$ V     | $I_R$           | 1             | $\mu\text{A}$      |
| Maximum Reverse Recovery Time <sup>2)</sup>        | $t_{rr}$        | 30            | ns                 |
| Thermal Resistance Junction to lead                | $R_{\theta JA}$ | 23            | $^\circ\text{C/W}$ |
| Junction Temperature Range                         | $T_j$           | 150           | $^\circ\text{C}$   |
| Storage Temperature Range                          | $T_{stg}$       | - 55 to + 150 | $^\circ\text{C}$   |

<sup>1)</sup> On glass epoxy substrate 60 Hz half sin wave, Resistive load  $T_L = 107^\circ\text{C}$

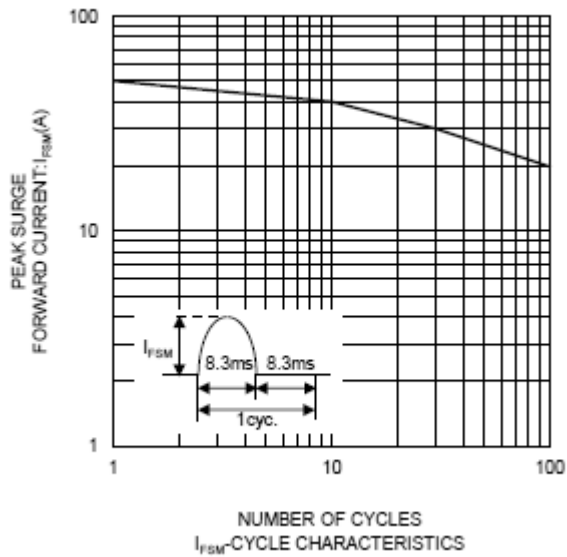
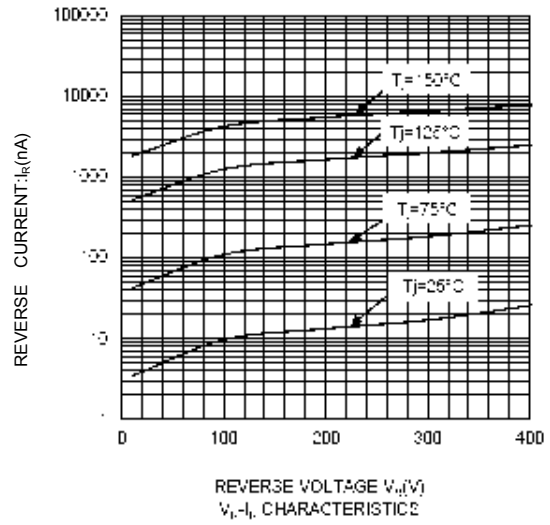
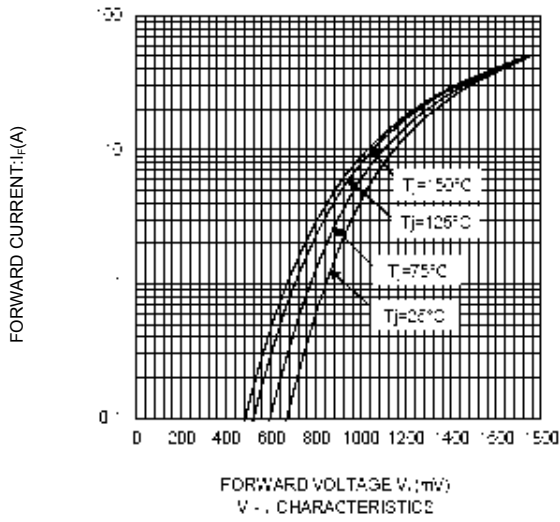
<sup>2)</sup> Measured with  $I_F = 0.5$  A,  $I_R = 1$  A,  $I_{rr} = 0.25 \times I_R$

**TOP DYNAMIC**



Dated: 05/08/2013 Rev: 01

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**TOP DYNAMIC**

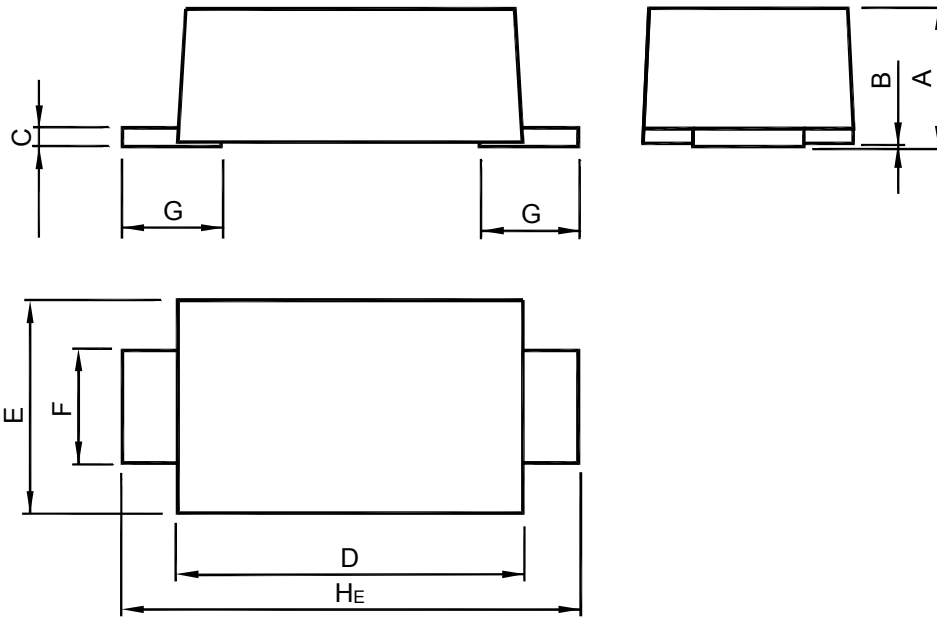


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## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123FL



| UNIT | A    | B   | C   | D   | E   | F   | G   | H <sub>E</sub> |
|------|------|-----|-----|-----|-----|-----|-----|----------------|
| mm   | 1.08 | 0.1 | 0.2 | 2.9 | 1.9 | 1.1 | 0.9 | 3.9            |
|      | 0.88 | 0   | 0.1 | 2.6 | 1.7 | 0.8 | 0.7 | 3.5            |

**TOP DYNAMIC**



ISO14001 : 2004 Certificate No. 121505007  
 ISO 9001 : 2008 Certificate No. 01141012  
 OHSAS 18001 : 2007 Certificate No. 051938008  
 IECQ QC 080000 Certificate No. E2418000744R2

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