

SFD15L4M

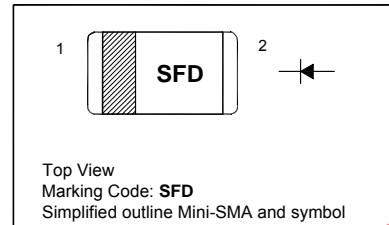
Super Fast Recovery Rectifier

Features

- Low forward voltage
- Low switching loss

PINNING

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



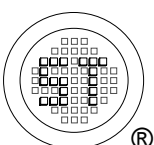
Maximum Ratings And Electrical Characteristics at ($T_a = 25^\circ\text{C}$)

| Parameter | Symbol | Value | Unit |
|--|-----------------|---------------|--------------------|
| Maximum Current Peak Reverse Voltage at Duty ≤ 0.5 | V_{RM} | 400 | V |
| Reverse Voltage ¹⁾ | V_R | 400 | V |
| Maximum Average Forward Current ²⁾ | $I_{F(AV)}$ | 1.5 | A |
| Peak One cycle Forward Surge Current (Non-repetitive, 60 Hz) | I_{FSM} | 50 | A |
| Maximum Forward Voltage at $I_F = 1.5$ A | V_F | 1.2 | V |
| Repetitive Reverse Current at $V_R = 400$ V | I_R | 1 | μA |
| Maximum Reverse Recovery Time ³⁾ | 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 | $^\circ\text{C}$ |

¹⁾ Direct Voltage

²⁾ On glass epoxy substrate 60 Hz half sin wave, Resistive load $T_L = 107^\circ\text{C}$

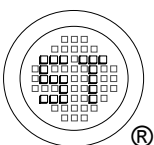
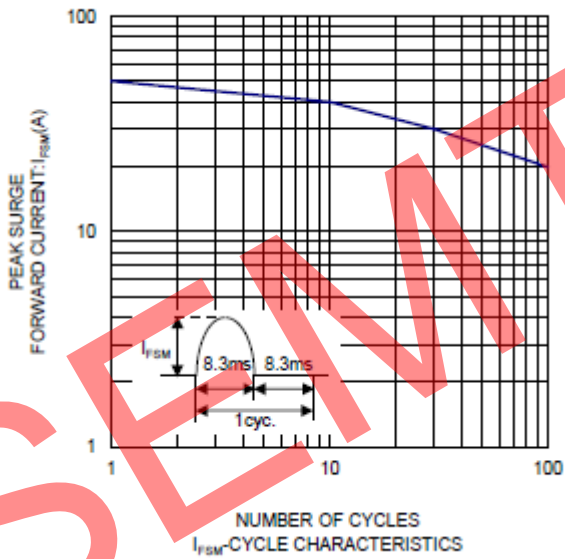
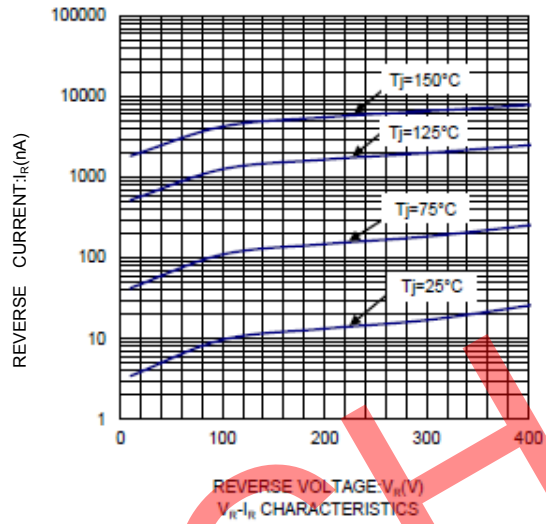
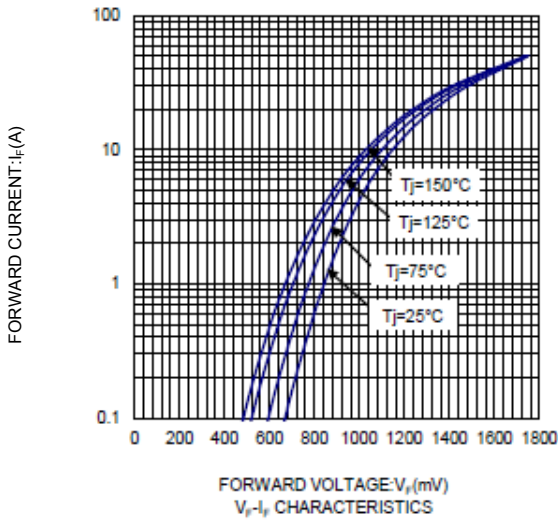
³⁾ Measured with $I_F = 0.5$ A, $I_R = 1$ A, $I_{rr} = 0.25 \times I_R$



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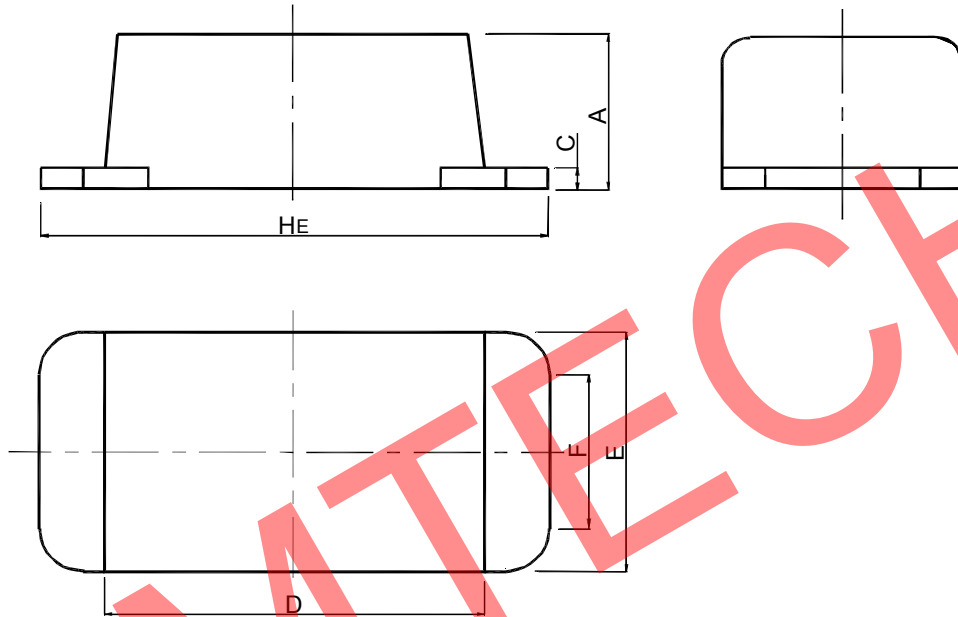
Dated: 28/02/2013 Rev: 02

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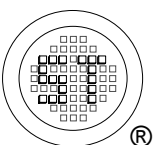
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

Mini-SMA



| UNIT | A | C | D | E | F | H _E |
|------|------|-----|-----|-----|------|----------------|
| mm | 1.08 | 0.2 | 2.9 | 1.9 | 1.53 | 3.9 |
| | 0.88 | 0.1 | 2.6 | 1.7 | 1.43 | 3.5 |



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