

**VOLTAGE RANGE: 100 - 1000V**

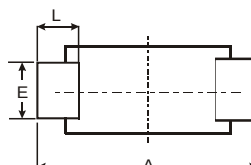
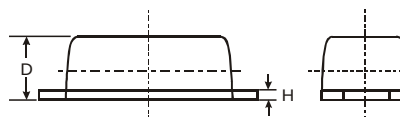
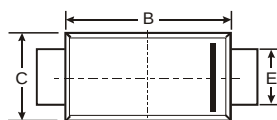
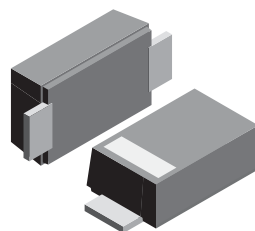
**CURRENT: 1.0 A**

### Features

- Glass passivated device
- Ideal for surface mounted applications
- Low reverse leakage
- Metallurgically bonded construction
- High temperature soldering guaranteed:  
250°C/10 seconds, 0.375" (9.5mm) lead length,  
5 lbs. (2.3kg) tension

### Mechanical Data

- Case: SOD-123FL  
plastic body over passivated junction
- Terminals: Plated axial leads,  
solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.0007 ounce, 0.02 grams



| SOD-123FL            |       |      |      |
|----------------------|-------|------|------|
| Dim                  | Min   | Max  | Typ  |
| A                    | 3.58  | 3.72 | 3.65 |
| B                    | 2.72  | 2.78 | 2.75 |
| C                    | 1.77  | 1.83 | 1.80 |
| D                    | 1.02  | 1.08 | 1.05 |
| E                    | 0.097 | 1.03 | 1.00 |
| H                    | 0.13  | 0.17 | 0.15 |
| L                    | 0.53  | 0.57 | 0.55 |
| All Dimensions in mm |       |      |      |

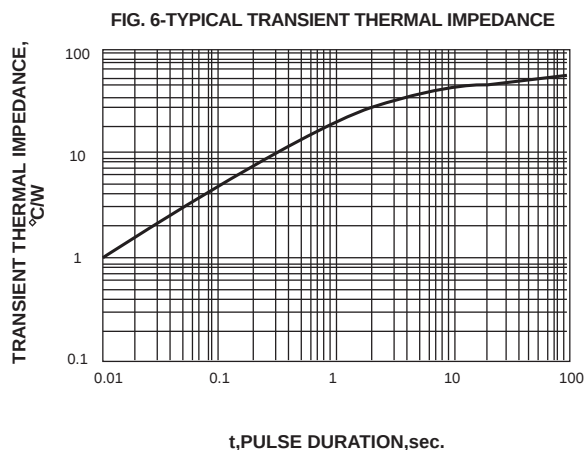
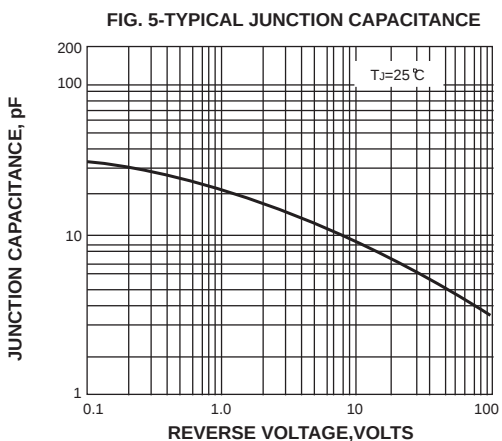
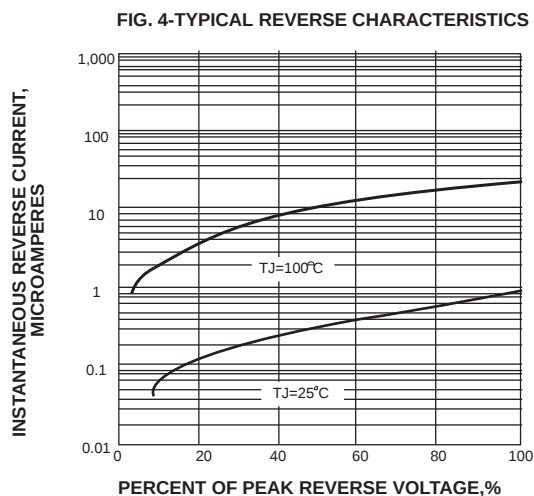
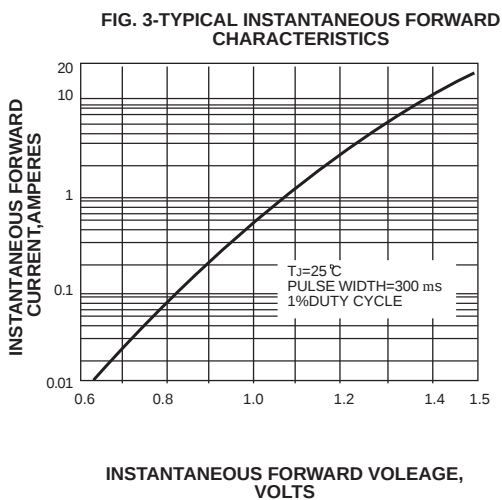
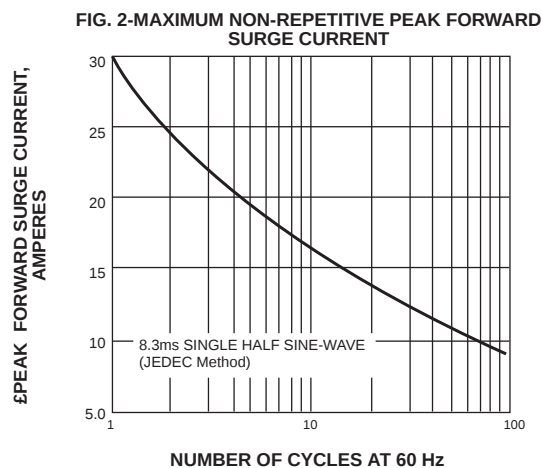
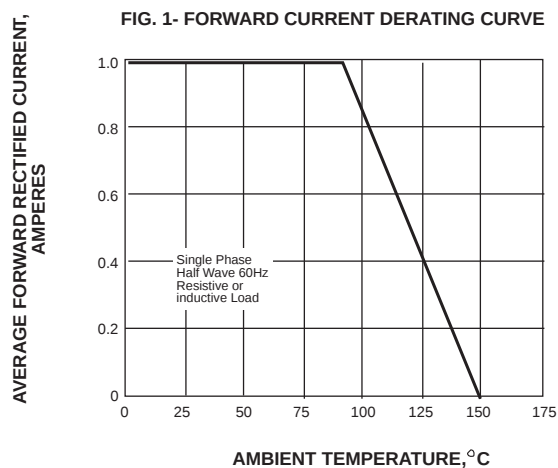
### Maximum Ratings and Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| Characteristic                                                                                                              | Symbol                           | RS1001FL    | RS1002FL | RS1004FL | RS1006FL | RS1008FL | RS1010FL | Unit |
|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------|----------|----------|----------|----------|----------|------|
| Maximum repetitive peak reverse voltage                                                                                     | V <sub>RRM</sub>                 | 100         | 200      | 400      | 600      | 800      | 1000     | V    |
| Maximum RMS voltage                                                                                                         | V <sub>RMS</sub>                 | 70          | 140      | 280      | 420      | 560      | 700      | V    |
| Maximum DC blocking voltage                                                                                                 | V <sub>DC</sub>                  | 100         | 200      | 400      | 600      | 800      | 1000     | V    |
| Maximum average forward rectified current<br>at T <sub>A</sub> =65°C (NOTE 1)                                               | I <sub>(AV)</sub>                | 1.0         |          |          |          |          |          | A    |
| Peak forward surge current<br>8.3ms single half sine-wave superimposed on<br>rated load (JEDEC Method) T <sub>L</sub> =25°C | I <sub>FSM</sub>                 | 25.0        |          |          |          |          |          | A    |
| Maximum instantaneous forward voltage at 1.0A                                                                               | V <sub>F</sub>                   | 1.3         |          |          |          |          |          | V    |
| Maximum DC reverse current T <sub>A</sub> =25°C<br>at rated DC blocking voltage T <sub>A</sub> =125°C                       | I <sub>R</sub>                   | 5.0<br>50.0 |          |          |          |          |          | μA   |
| Maximum reverse recovery time (NOTE 2)                                                                                      | t <sub>rr</sub>                  | 150         |          |          | 250      | 500      |          | ns   |
| Typical junction capacitance (NOTE 3)                                                                                       | C <sub>J</sub>                   | 15          |          |          |          |          |          | pF   |
| Operating junction and storage temperature range                                                                            | T <sub>J</sub> ,T <sub>STG</sub> | -50 to +150 |          |          |          |          |          | °C   |

**Note:** 1. Averaged over any 20ms period.  
2. Measured with I<sub>F</sub>=0.5A, I<sub>R</sub>=1A, I<sub>rr</sub>=0.25A.  
3. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

## RATINGS AND CHARACTERISTIC CURVES RS1001FL - RS1010FL



单击下面可查看定价，库存，交付和生命周期等信息

[>>SUNMATE\(森美特\)](#)