

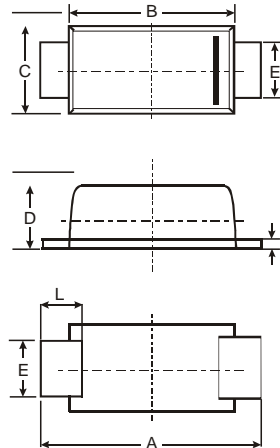
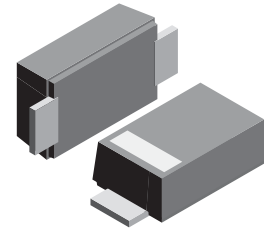
**VOLTAGE RANGE: 60V**  
**CURRENT: 0.5A**

### 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                    | 3.50 | 3.80 | 3.65  |
| B                    | 2.60 | 2.90 | 2.75  |
| C                    | 1.70 | 1.90 | 1.80  |
| D                    | 0.09 | 1.10 | 1.00  |
| E                    | 0.08 | 1.10 | 0.095 |
| H                    | 0.12 | 0.20 | 0.16  |
| L                    | 0.07 | 0.09 | 0.08  |
| All Dimensions in mm |      |      |       |

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

| Characteristic                                                       | Symbol              | Limits      | Unit |
|----------------------------------------------------------------------|---------------------|-------------|------|
| Repetitive Peak Reverse Voltage                                      | VRRM                | 60          | V    |
| Average Rectified Forward Current 50Hz Half Sine Wave Resistive Load | I <sub>O</sub>      | 0.40<br>0.5 | A    |
| R.M.S. Forward Current                                               | I <sub>F(RMS)</sub> | 0.785       | A    |
| Surge Forward Current 50Hz Half Sine Wave, 1 cycle, Non-repetitive   | I <sub>FSM</sub>    | 8           | A    |
| Operating Junction Temperature Range                                 | T <sub>jw</sub>     | -40 to +150 | °C   |
| Storage Temperature Range                                            | T <sub>stg</sub>    | -40 to +150 | °C   |

### Electrical Characteristics

| Characteristic                         | Symbol               | Min | Typ | Max  | Unit  |
|----------------------------------------|----------------------|-----|-----|------|-------|
| Peak Reverse Current                   | I <sub>RM</sub>      | -   | -   | 100  | μA    |
| Peak Forward Voltage                   | V <sub>FM</sub>      | -   | -   | 0.62 | V     |
| Thermal Resistance Junction to Ambient | R <sub>th(j-a)</sub> | -   | -   | 300  | C / W |
|                                        |                      | -   | -   | 70   |       |

