

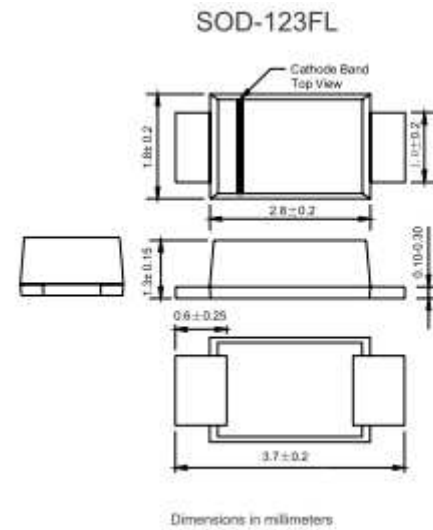
## Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- High current capability
- Very low forward voltage drop
- Epitaxial construction
- Metal-Semiconductor junction with guardring
- For use in low voltage, high frequency inverters, Free-wheeling, and polarity protection applications

## Applications

- Case : JEDEC SOD-123FL molded plastic
- Polarity : Indicated by cathode band
- Weight : 0.0007 ounce, 0.02 gram

## EC76DSS22~EC76DSS210



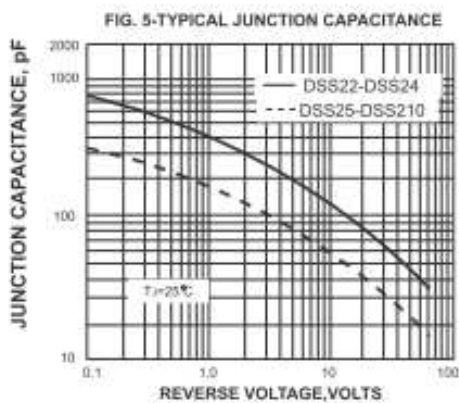
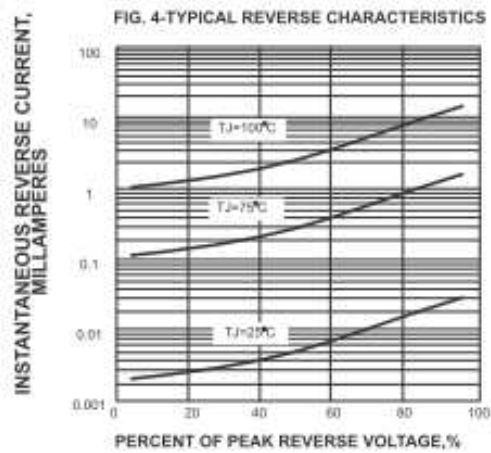
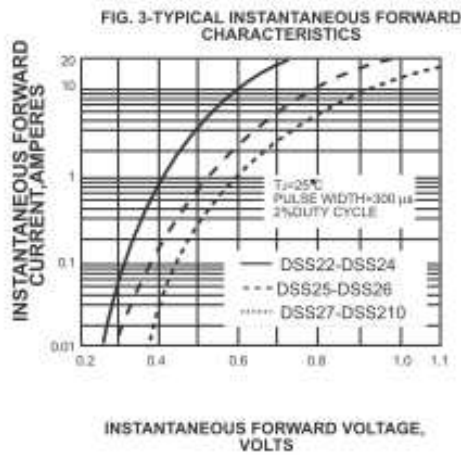
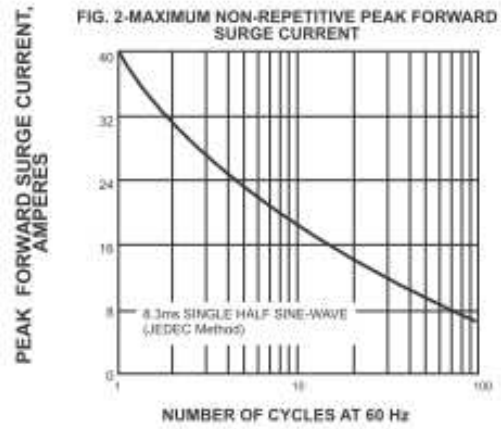
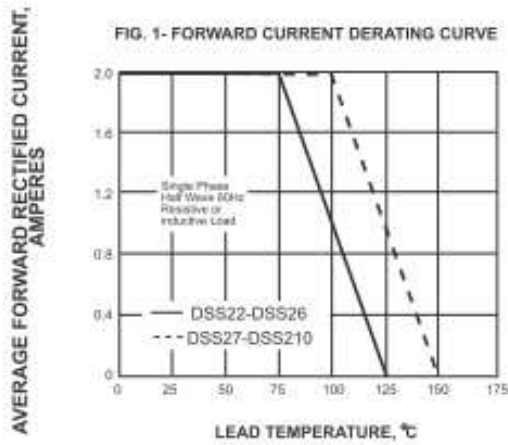
## Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

|   | SYMBOLS | DSS22       | DSS23 | DSS24 | DSS25 | DSS26 | DSS27       | DSS28 | DSS29 | DSS210 | UNITS |    |
|---|---------|-------------|-------|-------|-------|-------|-------------|-------|-------|--------|-------|----|
|   |         | D22         | D23   | D24   | D25   | D26   | D27         | D28   | D29   | D210   |       |    |
| Maximum repetitive peak reverse voltage                               | VRRM    | 20          | 30    | 40    | 50    | 60    | 70          | 80    | 90    | 100    | VOLTS |    |
| Maximum RMS voltage   | VRMS    | 14          | 21    | 28    | 35    | 42    | 49          | 56    | 63    | 70     | VOLTS |    |
| Maximum DC blocking voltage   | VDC     | 20          | 30    | 40    | 50    | 60    | 70          | 80    | 90    | 100    | VOLTS |    |
| Maximum average forward rectified current                             | I(AV)   | 2           |       |       |       |       |             |       |       |        | Amp   |    |
| Peak forward surge current  | IFSM    | 40          |       |       |       |       |             |       |       |        | Amps  |    |
| 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) |         |             |       |       |       |       |             |       |       |        |       |    |
| Maximum instantaneous forward voltage at 2.0A                         | VF      | 0.55        |       |       | 0.7   |       | 0.85        |       |       | Volts  |       |    |
| Maximum DC reverse current<br>at rated DC blocking voltage            | IR      | 0.5         |       |       |       |       |             |       |       |        | mA    |    |
|   |         | 10          |       |       |       |       |             | 5     |       |        |       | mA |
| Typical junction capacitance (NOTE 1)                                 | CJ      | 220         |       |       | 180   |       |             |       |       |        | pF    |    |
| Typical thermal resistance (NOTE 2)                                   | RθJA    | 180         |       |       |       |       |             |       |       |        | K/W   |    |
| Operating junction temperature range                                  | TJ      | -55 to +125 |       |       |       |       | -55 to +150 |       |       |        |       | °C |
| Storage temperature range   | Tstg    | -55 to +150 |       |       |       |       |             |       |       |        | °C    |    |

- Notes: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.  
 2. Thermal Resistance Junction to Lead.  
 3. Thermal Resistance Junction to Ambient.

## Typical Performance Curves



## Order Information

| Device    | Package   | Net Weight | Carrier     | Quantity     | HSF Status     |
|-----------|-----------|------------|-------------|--------------|----------------|
| EC76DSS2x | SOD-123FL |            | Tape & Reel | 3000pcs/reel | RoHS compliant |