



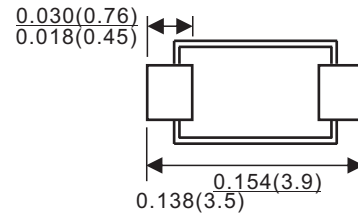
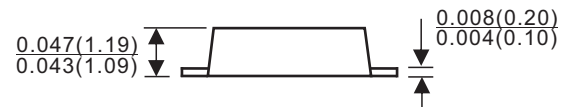
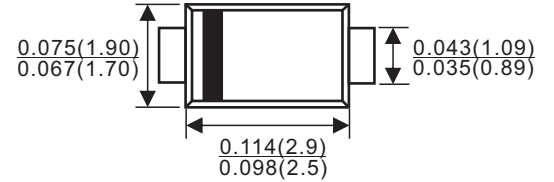
SOD-123FL

Features

- ✧ Low profile package
- ✧ Ideal for automated placement
- ✧ Ultrafast reverse recovery time
- ✧ Low power losses, high efficiency
- ✧ Low forward voltage drop
- ✧ High surge capability
- ✧ High temperature soldering:
260°C/10 seconds at terminals
- ✧ Component in accordance to
RoHS 2002/95/1 and WEEE 2002/96/EC

Mechanical Date

- ✧ **Case:** JEDEC SOD-123FL molded plastic body over passivated chip
- ✧ **Terminals:** Solder plated, solderable per J-STD-002B and JESD22-B102D
- ✧ **Polarity:** Laser band denotes cathode end
- ✧ **Weight:** 0.017gram



Dimensions in inches and(millimeters)

Maximum Ratings & Thermal Characteristics & Electrical Characteristics

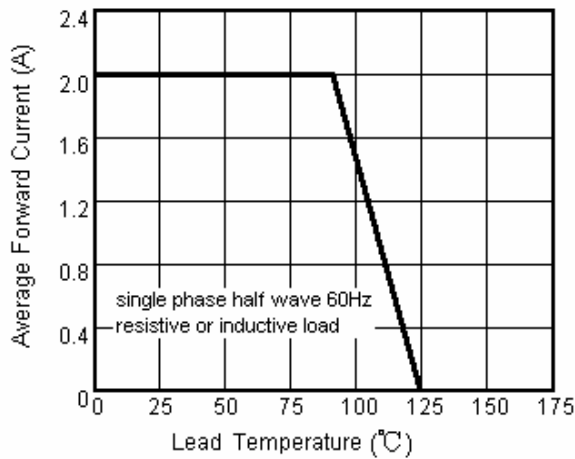
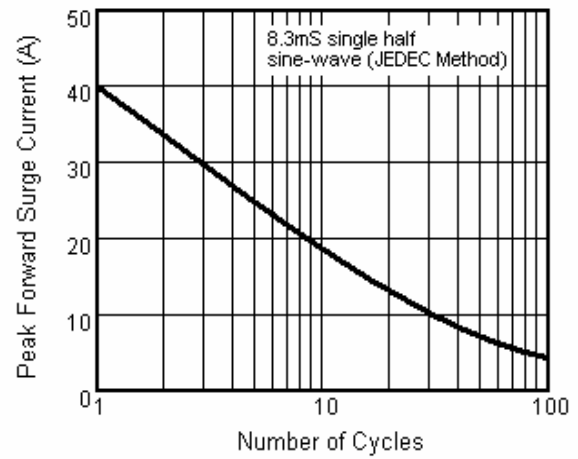
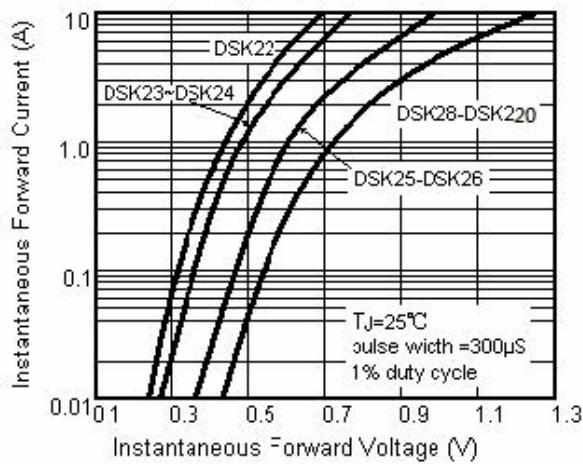
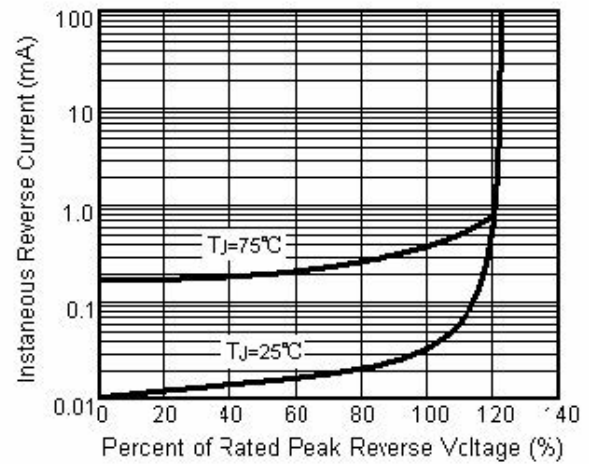
(T_A = 25 °C unless otherwise noted)

| | SYMBOLS | DSK22 | DSK23 | DSK24 | DSK25 | DSK26 | DSK27 | DSK 28 | DSK29 | DSK210 | DSK215 | DSK220 | UNITS | |
|--|-------------------|-------------|-------|-------|-------|-------|-------------|--------|-------|--------|--------|--------|-------|----|
| Maximum repetitive peak reverse voltage | V _{RRM} | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 150 | 200 | VOLTS | |
| Maximum RMS voltage | V _{RMS} | 14 | 21 | 28 | 35 | 42 | 49 | 56 | 63 | 70 | 83 | 90 | VOLTS | |
| Maximum DC blocking voltage | V _{DC} | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 150 | 200 | VOLTS | |
| Maximum average forward rectified current | I _(AV) | 2.0 | | | | | | | | | | | Amp | |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | I _{FSM} | 40.0 | | | | | | | | | | | Amps | |
| Maximum instantaneous forward voltage at 2.0A | V _F | 0.55 | | | 0.70 | | | 0.85 | | | 0.95 | | Volts | |
| Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =100°C | I _R | 0.5 | | | | | 10.0 | | | | | 5.0 | | mA |
| Typical junction capacitance (NOTE 1) | C _J | 220 | | | | | 80 | | | | | pF | | |
| Operating junction temperature range | T _J | -65 to +125 | | | | | -65 to +150 | | | | | °C | | |
| Storage temperature range | T _{STG} | -65 to +150 | | | | | | | | | | | °C | |

Note:1.Measured at 1MHz and applied reverse voltage of 4.0V

D.C.

Characteristic Curves ($T_A=25\text{ }^\circ\text{C}$ unless otherwise noted)

Fig.1 Forward Current Derating Curve

Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

Fig.3 Typical Instantaneous Forward Characteristics

Fig.4 Typical Reverse Characteristics


| PACKAGE | SPQ/PCS | CARTON SPQ/PCS | CARTON SIZE/CM | CARTON GW/KG | CARTON NW/KG |
|-----------|-----------|----------------|----------------|--------------|--------------|
| SOD-123FL | 3000/REEL | 90000 | 40X20X22 | 5.00 | 4.00 |

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