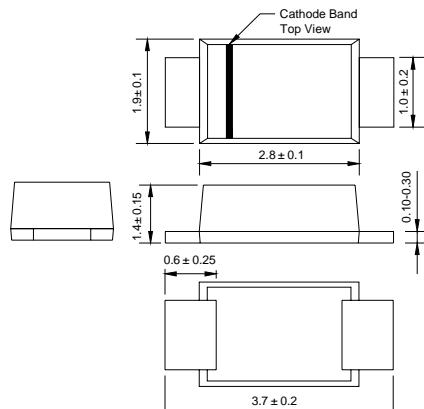




## Features

- 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

## SOD-123FL



Dimensions in millimeters

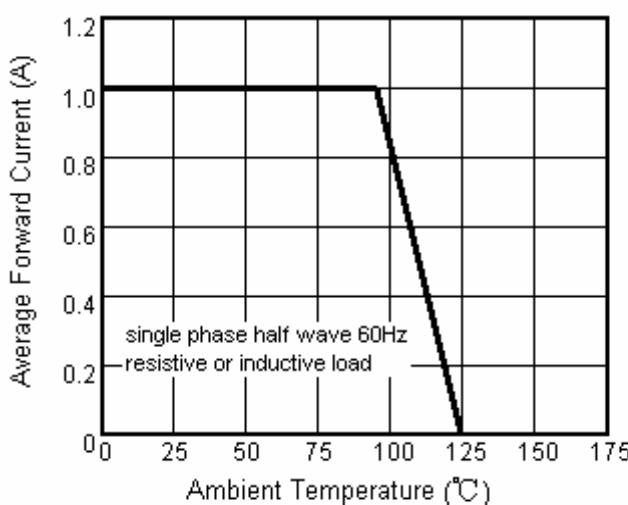
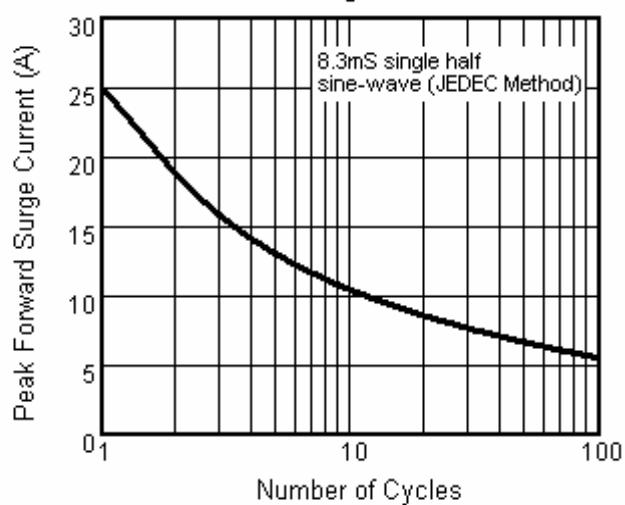
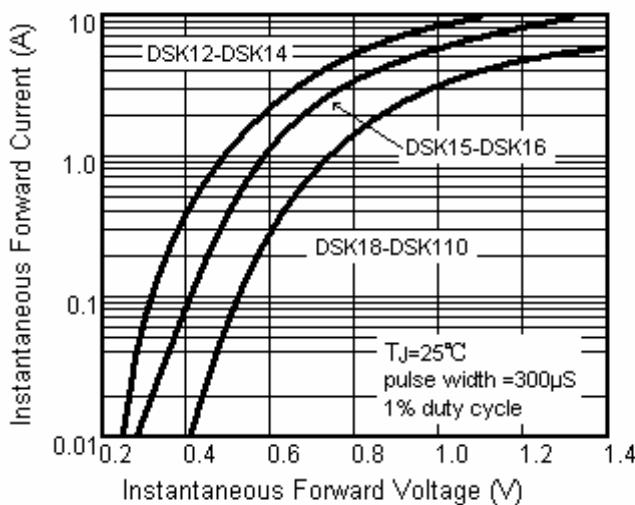
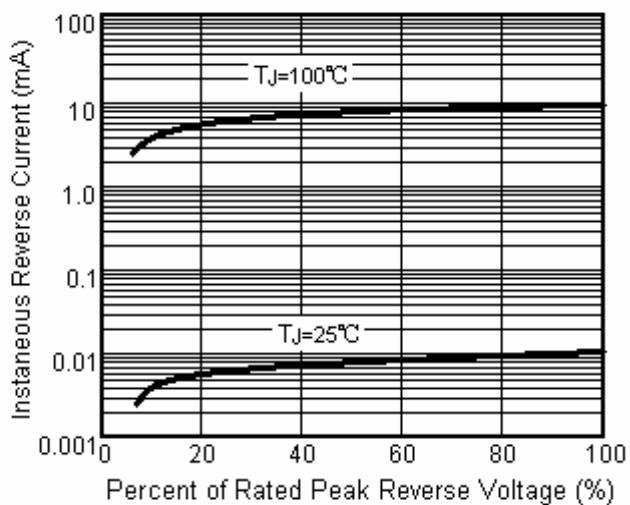
## Mechanical Data

- **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

## Maximum Ratings & Thermal Characteristics & Electrical Characteristics

(TA = 25 °C unless otherwise noted)

	Symbol	DSK12	DSK13	DSK14	DSK15	DSK16	DSK18	DSK110	UNIT
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	20	30	40	50	60	80	100	V
Maximum RMS voltage	V <sub>RMS</sub>	14	21	28	35	42	56	70	V
Maximum DC blocking voltage	V <sub>DC</sub>	20	30	40	50	60	80	100	V
Maximum average forward rectified current	I <sub>F(AV)</sub>						1		A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>						25		A
Maximum instantaneous forward voltage at 1.0A	V <sub>F</sub>		0.55		0.70		0.85		V
Maximum DC reverse current T <sub>A</sub> = 25 °C at Rated DC blocking voltage T <sub>A</sub> = 100°C	I <sub>R</sub>				1.0				mA
					10				
Typical junction capacitance at 4.0 V ,1MHz	C <sub>J</sub>				110				
Operating junction and storage temperature range	T <sub>J</sub> , T <sub>STG</sub>				– 65 to +125				°C

**Characteristic Curves ( $T_A=25^\circ\text{C}$  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**

**Fig.5 Typical Junction Capacitance**
