



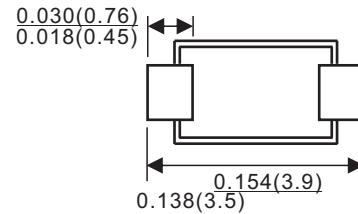
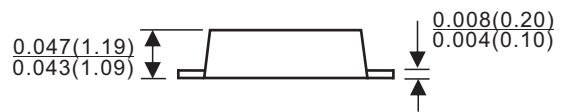
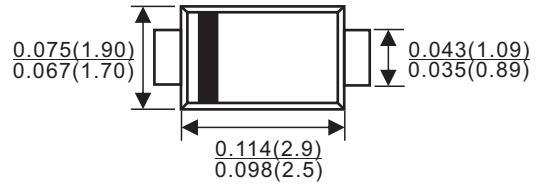
SOD-123FL

Features

- ◇ Low profile space
- ◇ Ideal for automated placement
- ◇ Glass passivated chip junctions
- ◇ Low forward voltage drop
- ◇ Low leakage current
- ◇ High forward 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 glass passivated chip
- ◇ **Terminals:** Solder plated, solderable per J-STD-002B and JESD22-B102D
- ◇ **Polarity:** Laser band denotes cathode end



Dimensions in inches and(millimeters)

Maximum Ratings & Thermal Characteristics & Electrical Characteristics

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

Type Number	Symbol	DSR 0.5A	DSR 0.5B	DSR 0.5D	DSR 0.5G	DSR 0.5J	DSR 0.5K	DSR 0.5M	UNIT
Marking code		0.5A	0.5B	0.5D	0.5G	0.5J	0.5K	0.5M	
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	$I_{F(AV)}$	0.5							A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	15							A
Maximum instantaneous forward voltage at 0.5A	V_F	1.1							V
Maximum DC reverse current $T_A = 25\text{ }^\circ\text{C}$ at Rated DC blocking voltage $T_A = 100\text{ }^\circ\text{C}$	I_R	5.0 50							μA
Typical junction capacitance at 4.0 V ,1MHz	C_J	14							pF
Operating junction and storage temperature range	T_J, T^{STG}	-55 to +150							$^\circ\text{C}$



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

Fig.1 Forward Current Derating Curve

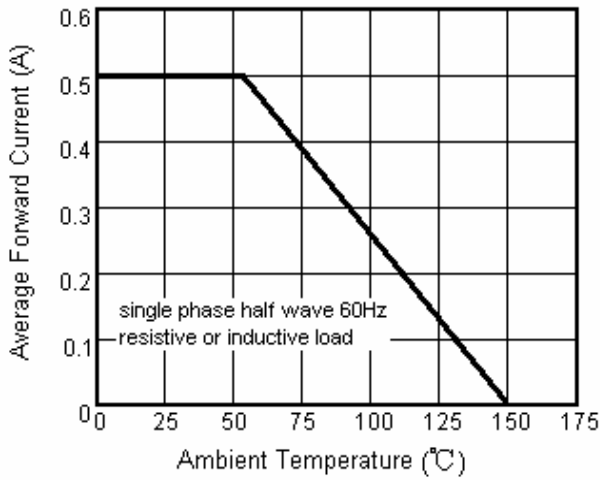


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

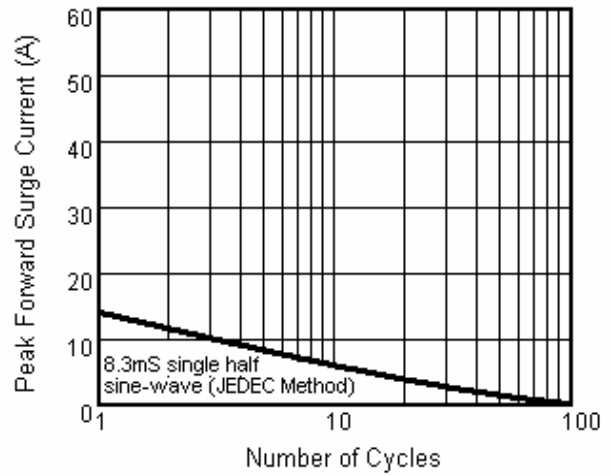


Fig.3 Typical Instantaneous Forward Characteristics

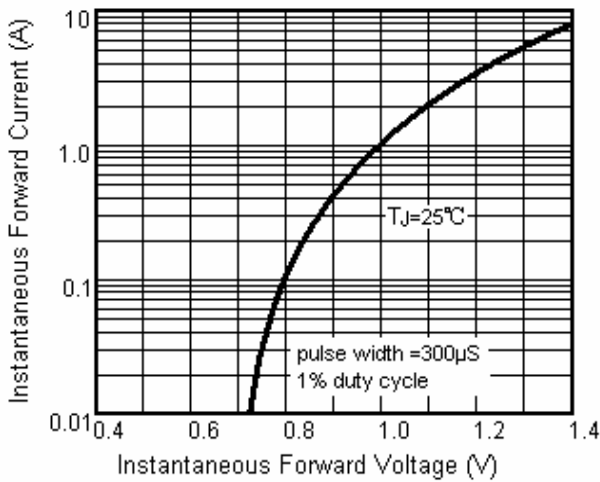


Fig.4 Typical Reverse Characteristics

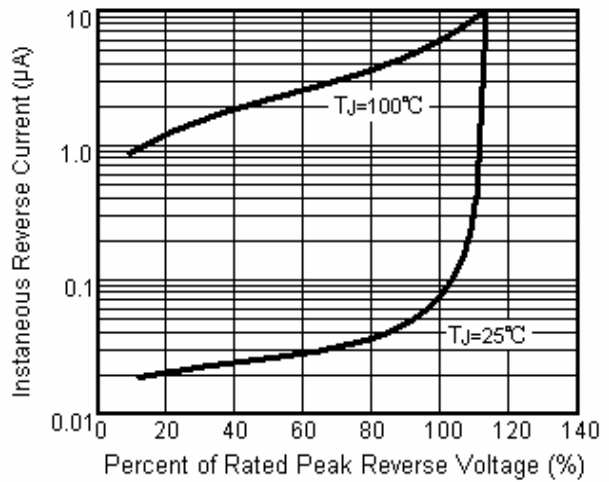
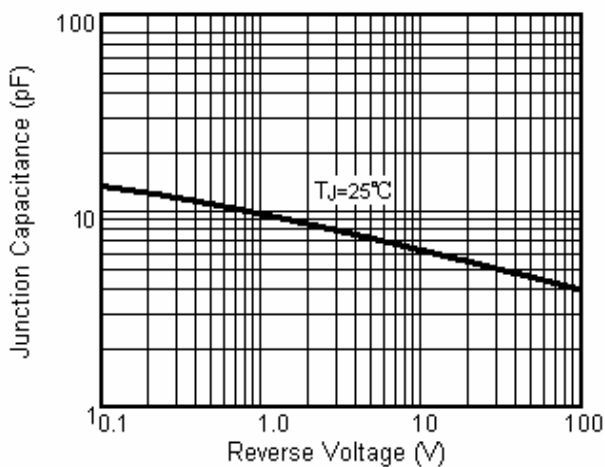


Fig.5 Typical Junction Capacitance



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