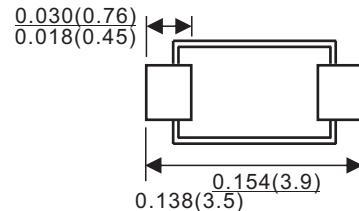
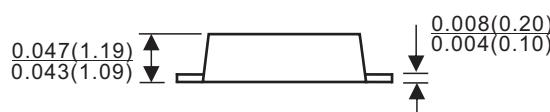
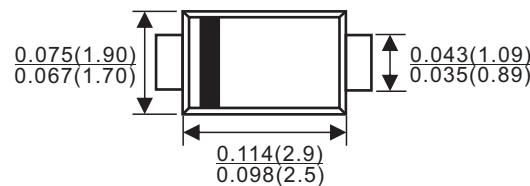




Features

- ✧ 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

SOD-123FL



Mechanical Data

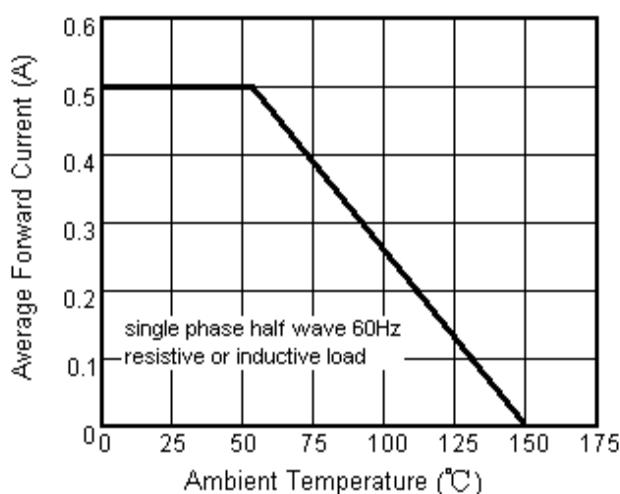
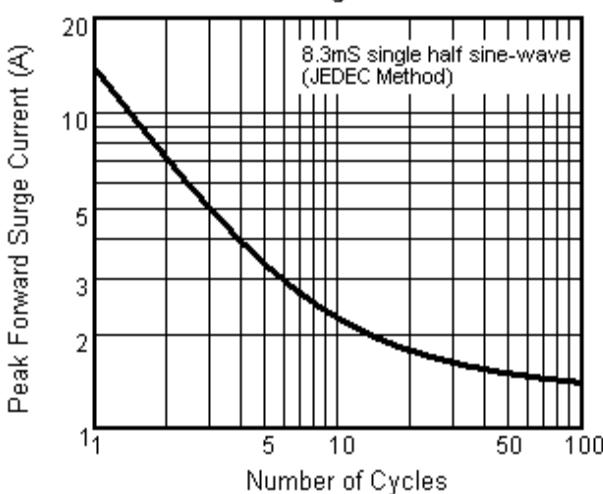
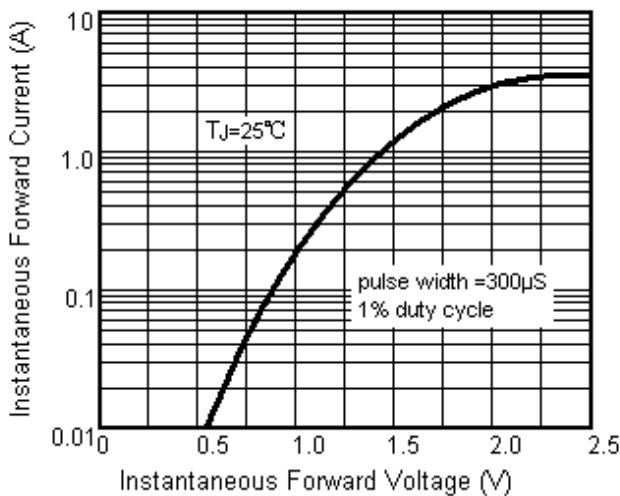
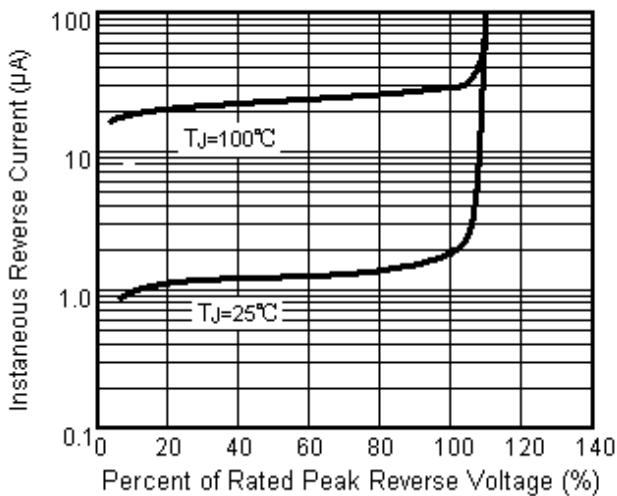
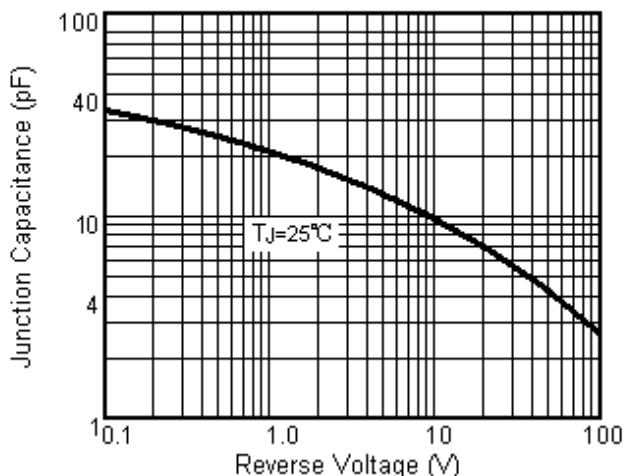
- ✧ **Case:** JEDEC SOD-123FL molded plastic body over glass passivated chip
- ✧ **Terminals:** Solder plated, solderable per J-STD-002B and JESD22-B102D
- ✧ **Polarity:** Laser band denotes cathode end
- ✧ **Weight:** 0.017gram

Maximum Ratings & Thermal Characteristics & Electrical Characteristics

(T_A = 25 °C unless otherwise noted)

Parameter	Symbol	DFR 0.5A	DFR 0.5B	DFR 0.5D	DFR 0.5G	DFR 0.5J	DFR 0.5K	DFR 0.5M	DFR 0.5M	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	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					1.3				V
Maximum DC reverse current T _A = 25 °C at Rated DC blocking voltage T _A = 100°C	I _R				5.0	50				µ A
Maximum reverse recovery time at I _F = 0.5 A , I _R = 1.0 A , I _{rr} = 0.25 A	t _{rr}			150		250	500			nS
Typical junction capacitance at 4.0 V , 1MHz	C _J			15						p F
Operating junction and storage temperature range	T _J , T _{STG}				−55 to +150					°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


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