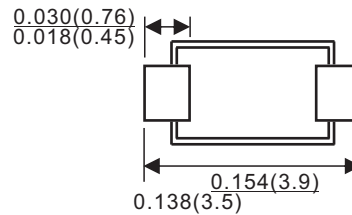
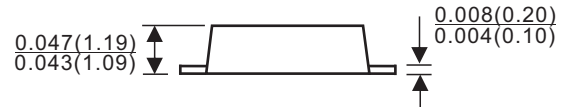
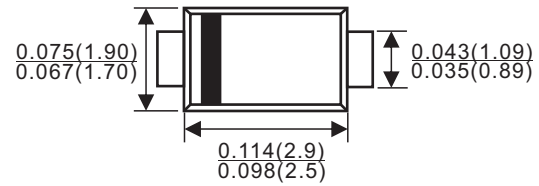


**REVERSE VOLTAGE: 30 V**  
**CURRENT: 0.5 A**  
 SOD-123FL



Dimensions in inches and(millimeters)

## Features

- ✧ Low profile package
- ✧ For surface mouted applications
- ✧ Idear for automated placement
- ✧ Low power loss,high efficiency
- ✧ High temperature soldering:  
250 /10 seconds at terminals

## Mechanical Data

- ✧ Case:JEDEC SOD-123FL,molded plastic over passivated chip
- ✧ Polarity: Color band denotes cathode end
- ✧ Weight: 0.003 ounces, 0.01 gram

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ambient temperature unless otherwise specified.

Single hase,half wave,60Hz,resistive or inductive load.For capacitive load,derate current by 20%.

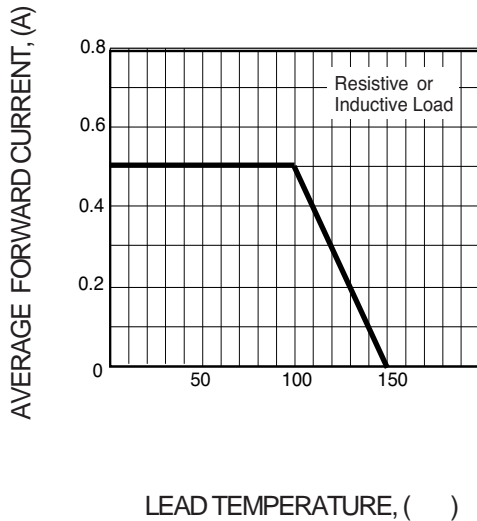
### ABSOLUTE RATINGS

Parameter	Symbol	Value	UNITS
Maximum repetitive peak reverse voltage	$V_{RRM}$	30	V
Maximum working peak reverse voltage	$V_{RWM}$	30	V
Maximum DC blocking voltage	$V_R$	30	V
Maximum average forward rectified current at rated $V_R$ @ $T_L=100$	$I_{(AV)}$	0.5	A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	$I_{FSM}$	5.5	A
Maximum instantaneous forward voltage @ $I_F=0.1A, T_J=25$ $I_F=0.5A, T_J=25$	$V_F$	0.375 0.43	V
Maximum DC reverse current @Rated dc Voltage, $T_C=25$ at rated DC blocking voltage $V_R=15V, T_C=25$	$I_R$	130 20	$\mu A$
Typical thermal resistance junction to ambient (NOTE 1)	$R_{j\theta A}$	206	/W
Typical thermal resistance junction to lead	$R_{j\theta L}$	150	/W
Operating temperature range	$T_j$	-55----+150	
Storage temperature range	$T_{STG}$	-55----+150	

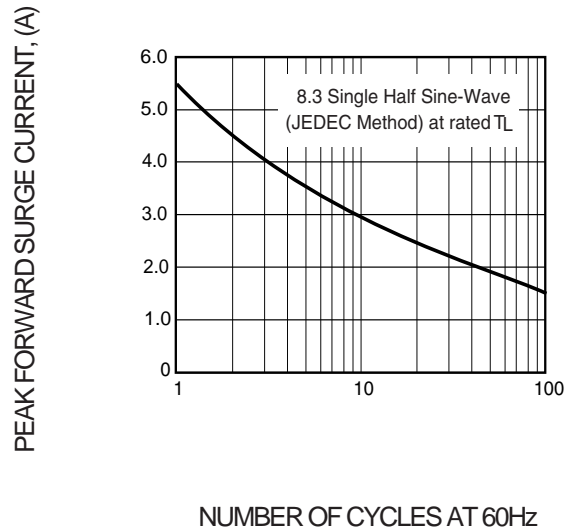
NOTES:1.inch square pad size (1 x 0.5 inch for each lead) on FR4 board.

## Ratings AND Characteristic Curves

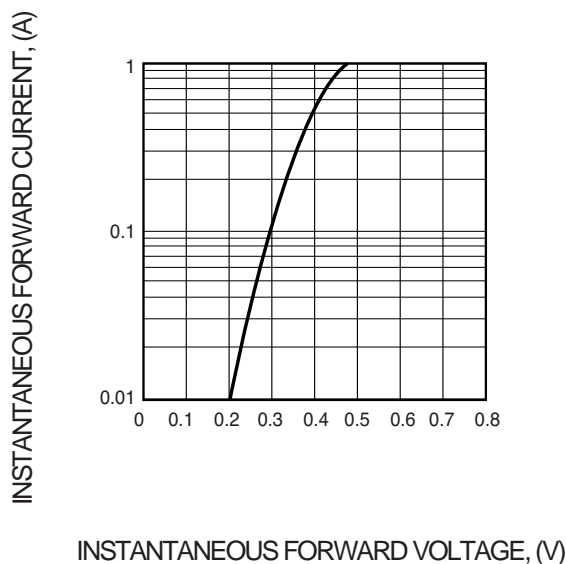
**FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE**



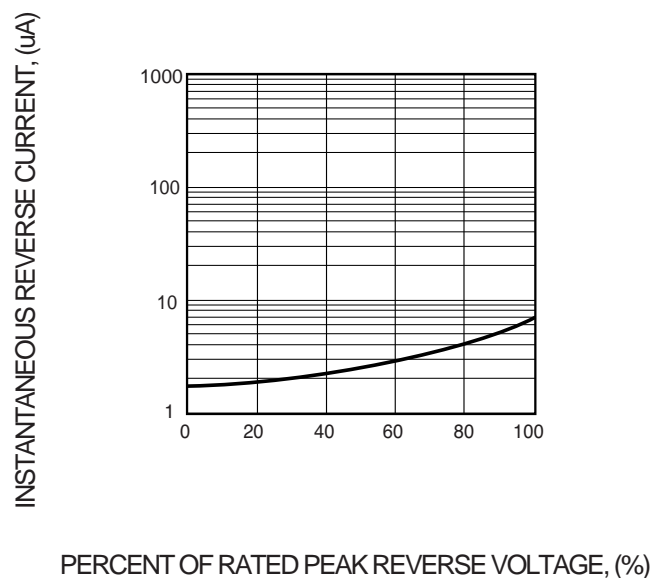
**FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT**



**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