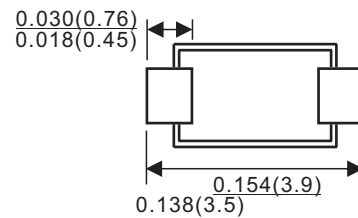
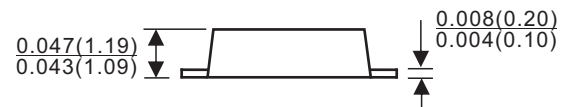
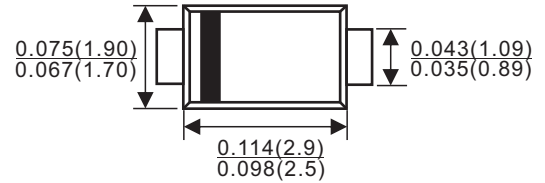




**REVERSE VOLTAGE: 50 - 600 V**

**CURRENT: 1.0 A**

SOD-123FL



Dimensions in inches and(millimeters)

## Features

- ✧ Glass passivated device
- ✧ Ideal for surface mounted applications
- ✧ Low leakage current
- ✧ Metallurgically bonded construction
- ✧ 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
- ✧ Mounting position: Any

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ambient temperature unless otherwise specified.

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

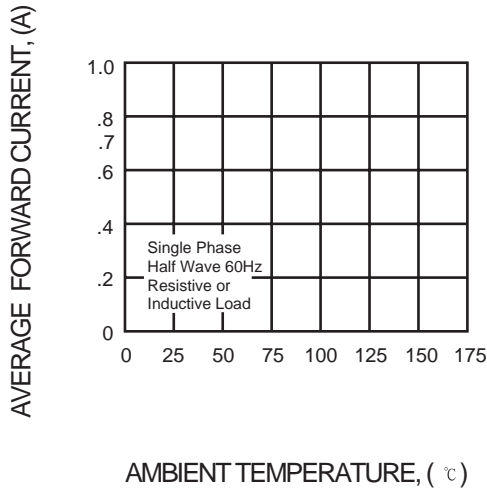
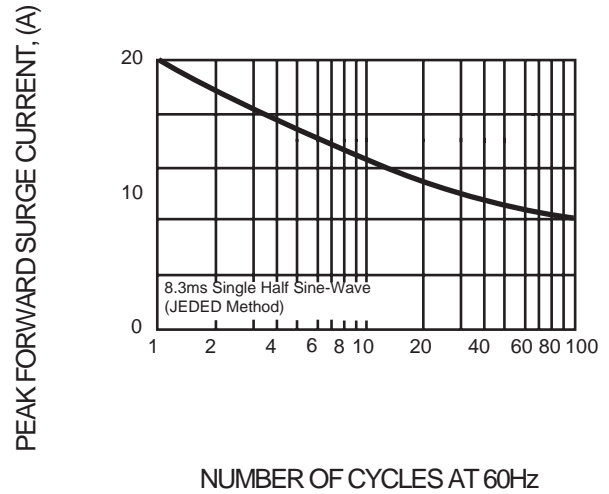
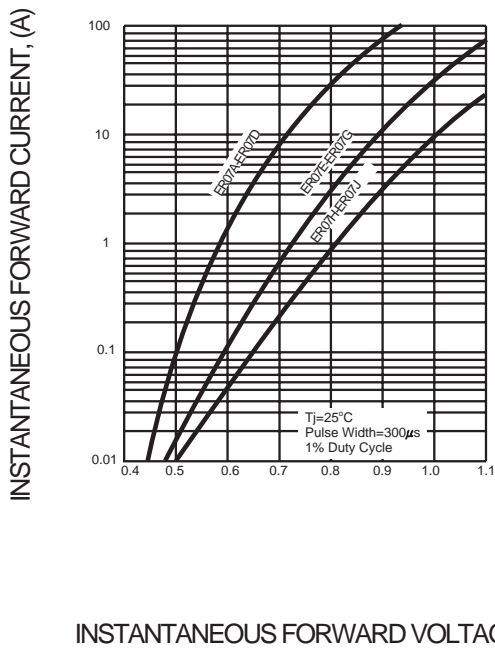
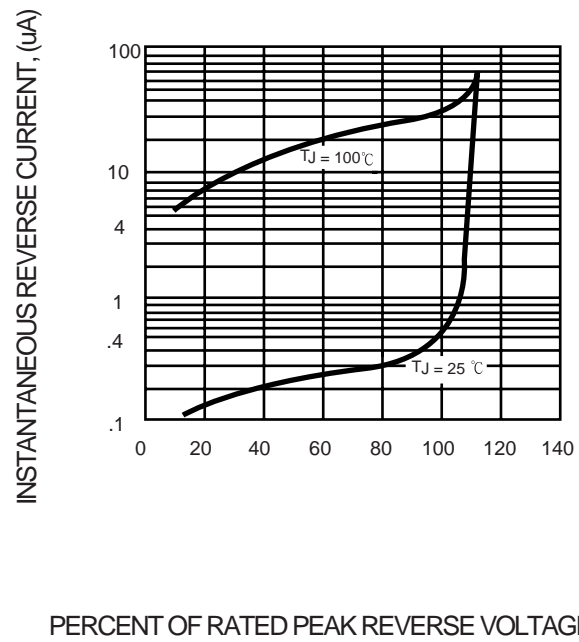
### ABSOLUTE RATINGS

		ER 07A	ER 07B	ER 07C	ER 07D	ER 07E	ER 07G	ER 07H	ER 07J	UNITS
Device marking		E1A	E1B	E1C	E1D	E1E	E1G	E1H	E1J	
Maximum recurrent peak reverse voltage	$V_{RRM}$	50	100	150	200	300	400	500	600	V
Maximum RMS voltage	$V_{RMS}$	35	70	105	140	210	280	350	420	V
Maximum DC blocking voltage	$V_{DC}$	50	100	150	200	300	400	500	600	V
Maximum average forward rectified current $T_A=65$	$I_{(AV)}$	1.0								A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load $T_L=25$	$I_{FSM}$	30								A
Maximum instantaneous (NOTE 1) forward voltage at 1.0A	$V_F$	0.95			1.25		1.7			V
Maximum DC reverse current @ $T_A=25$ at rated DC blocking voltage @ $T_A=125$	$I_R$	5.0 150								$\mu A$
Maximum reverse recovery Time(note2)	$T_{rr}$	35								nS
Operating temperature range	$T_j$	- 55 --- + 150								
Storage temperature range	$T_{STG}$	- 55 --- + 150								

NOTES:1.Pulse test:300ms pulse width,1% duty cycle.

2.Measured with  $I_F=0.5A$ ,  $I_R=1A$ ,  $I_{rr}=0.25A$ .

## Ratings AND Characteristic Curves

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

**FIG. 2 - MAXIMUM NON-REPETTIVE 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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