

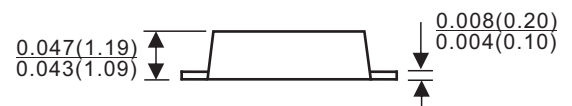
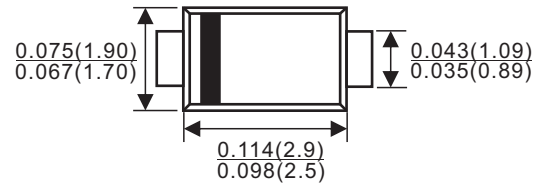
**REVERSE VOLTAGE: 50 - 600 V**
**CURRENT: 1.0 A**

SOD-123FL



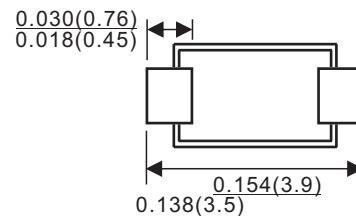
## Features

- ✧ 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



Dimensions in inches and (millimeters)

## 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

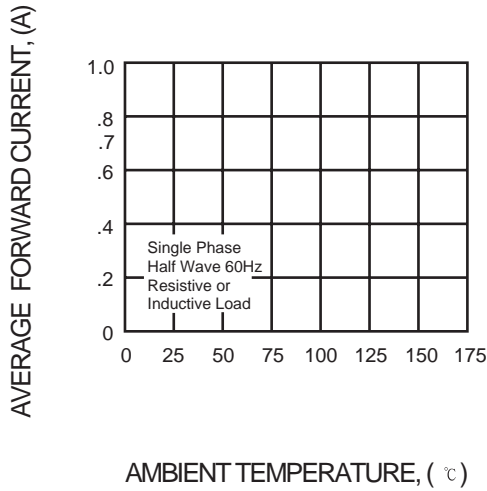
		E1A	E1B	E1C	E1D	E1E	E1G	E1H	E1J	UNITS	
Device marking		E1A	E1B	E1C	E1D	E1E	E1G	E1H	E1J		
Maximum recurrent peak reverse voltage	$V_{RRM}$	50	100	150	200	300	400	500	600	V	
Maximum RMS voltage	$V_{RMS}$	35	70	105	140	210	280	350	420	V	
Maximum DC blocking voltage	$V_{DC}$	50	100	150	200	300	400	500	600	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.

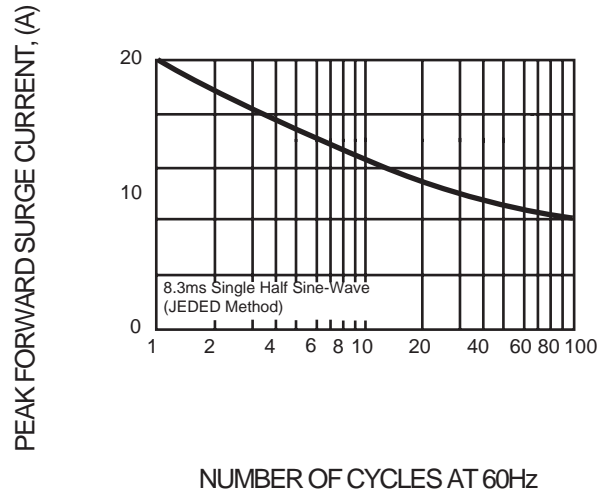
 2. Measured with  $I_F=0.5A$ ,  $I_R=1A$ ,  $I_{rr}=0.25A$ .

## Ratings AND Characteristic Curves

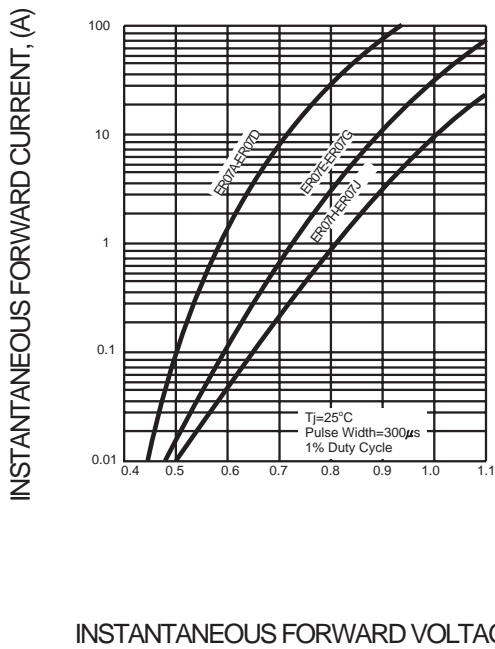
**FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE**



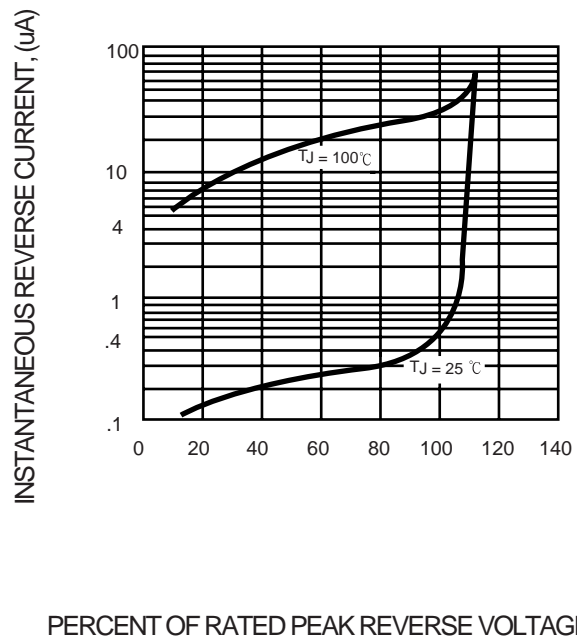
**FIG. 2 - MAXIMUM NON-REPETTIVE FORWARD SURGE CURRENT**



**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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