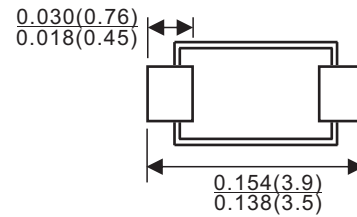
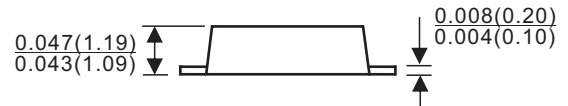
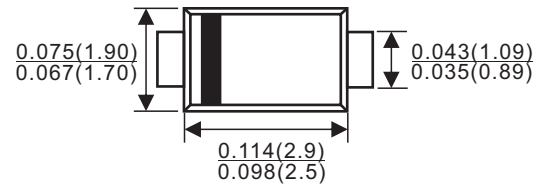




**REVERSE VOLTAGE: 50 - 1000 V**  
**CURRENT: 1.0A**  
**SOD-123FL**



Dimensions in inches and(millimeters)

## Features

- ✧ Low forward surge current
- ✧ Ideal for surface mouted applications
- ✧ Low leakage current

## Mechanical Data

- ✧ Case:JEDEC SOD-123FL,molded plastic over passivated chip
- ✧ Polarity: Color band denotes cathode end
- ✧ Weight: 0.006 ounces, 0.02 gram
- ✧ Mounting position: Any

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

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

### ABSOLUTE RATINGS

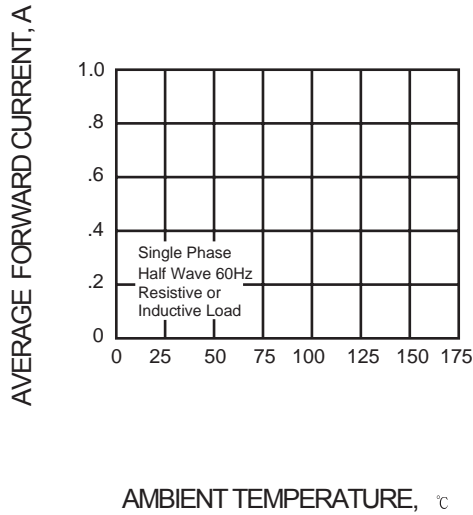
		U1A	U1B	U1D	U1G	U1J	U1K	U1M	UNITS	
Device marking code		U1A	U1B	U1D	U1G	U1J	U1K	U1M		
Maximum recurrent peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V	
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	V	
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	V	
Maximum average forward rectified current @ $T_A=75$	$I_{(AV)}$	1.0							A	
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	$I_{FSM}$	20							A	
Maximum instantaneous forward voltage @ $I_{FM}=0.7A$ (Note 1)	$V_F$	1.0		1.4		1.7			V	
Maximum DC reverse current @ $T_A=25$ at rated DC blocking voltage @ $T_A=125$	$I_R$				10	200			$\mu A$	
Maximum reverse recovery time (Note 2)	$t_{rr}$	50				75			ns	
Typical thermal resistance junction to lead	$R_{\theta JA}$	180								
Operating temperature range	$T_j$	- 55 --- + 150								
Storage temperature range	$T_{STG}$	- 55 --- + 150								

NOTE1.Pulse test: pulse width 300 $\mu$ sec,duty cycle 2%.

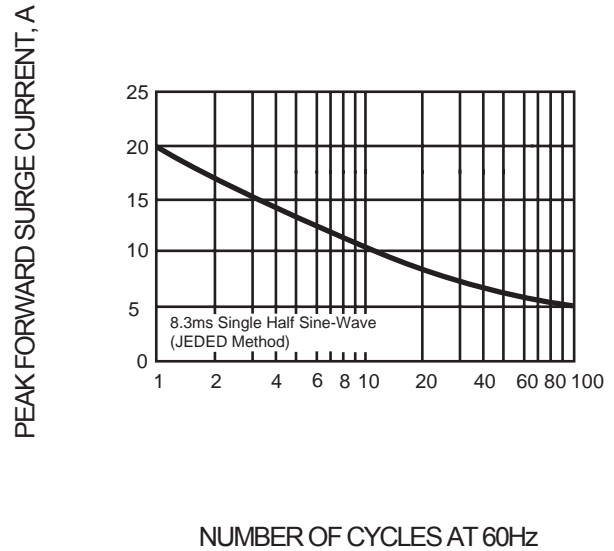
2.Measured with  $I_F=0.5A,I_R=1.0A,I_{rr}=0.25A$ .

## Ratings AND Characteristic Curves

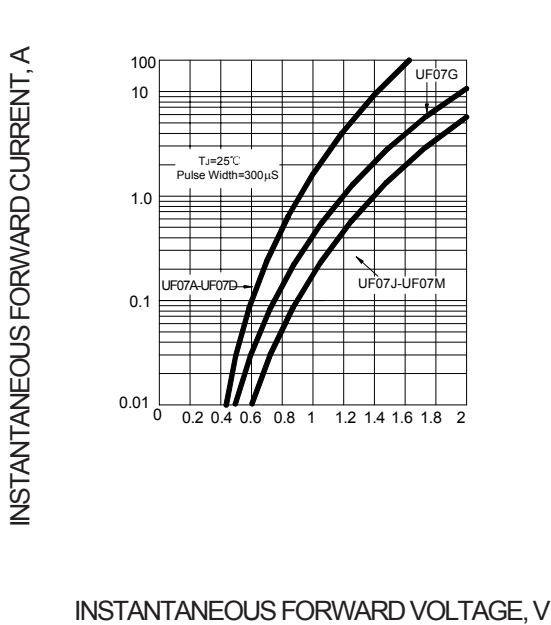
**FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE**



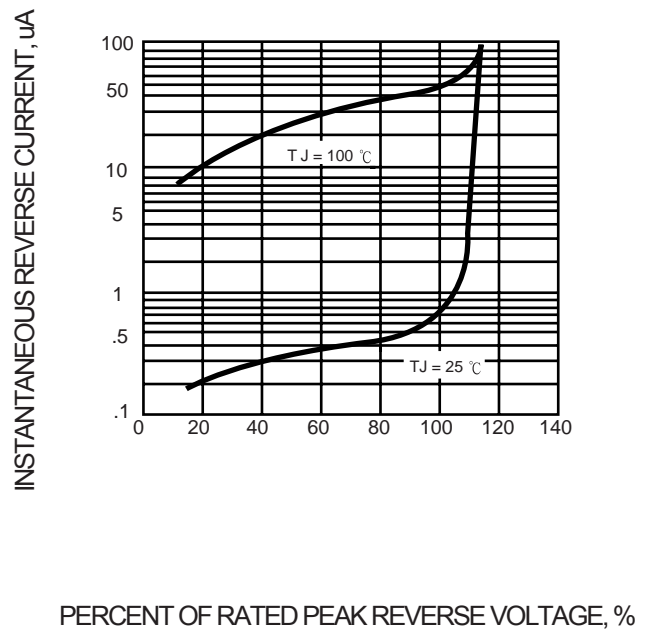
**FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT**



**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

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