

### Features

- Average Forward Current: I<sub>F(AV)</sub>=1A
- Polarity: Color band denotes cathode

## Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)			
F1A-F1M	SOD-123FL	F1x	3000			



SOD-123FL

x: From A-M

## Maxmim Ratings (Ta=25°C unless otherwise noted)

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

Tyoe Number	F1A	F1B	F1D	F1G	F1J	F1K	F1M	Units	
Maximum Recurrent Peak Reverse Voltage		100	200	400	600	800	1000	V	
Maximum RMS Voltage		70	140	280	420	560	700	V	
Maximum DC Blocking Voltage		100	200	400	600	800	1000	V	
Maximum Average Forward Rectified Current									
at Ta=25°C		1.0							
Peak Forward Surge Current, 8.3 ms single half sine-wave									
superimposed on rated load (JEDEC method)		30							
Maximum Instantaneous Forward Voltage at 1.0A		1.3							
Maximum DC Reverse Current Ta=25°C		5.0						uA	
at Rated DC Blocking Voltage Ta=100°C		100							
Maximum Reverse Recovery Time (Note 1)		150			250	500		nS	
Typical Junction Capacitance (Note 2)		15							
Typical Thermal Resistance RqJA (Note 3)		80							
Operating and Storage Temperature Range ТJ, Тsтс		-65-+150							

#### Notes:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal Resistance from Junction to Ambient.



# **Typical Characteristics**

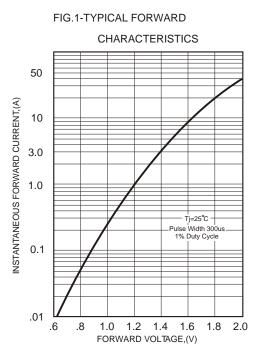
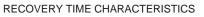
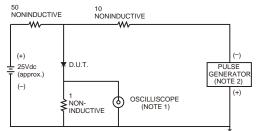


FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE





NOTES: 1. Rise Time= 7ns max., Input Impedance= 1 megohm.22pF. 2. Rise Time= 10ns max., Source Impedance= 50 ohms.

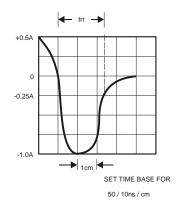
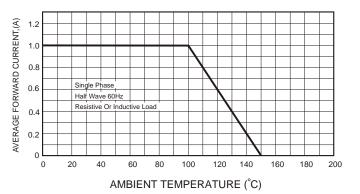
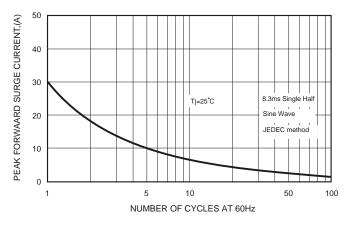
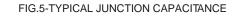


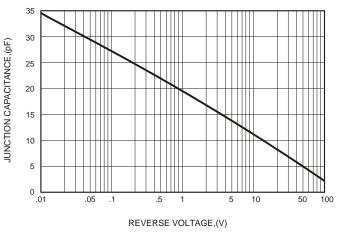
FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE





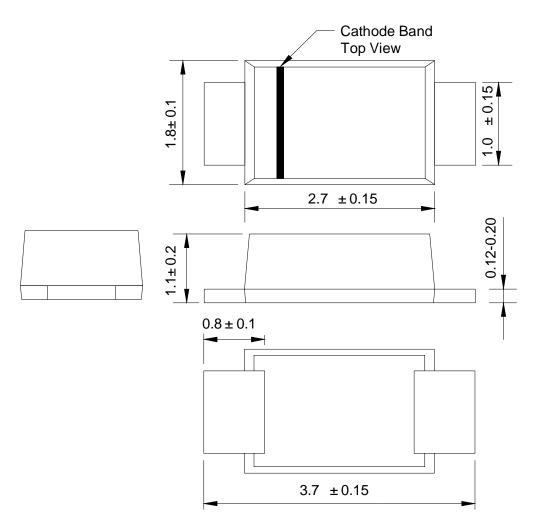








# SOD-123FL Package Outline Dimensions





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