

### Features

- Ideal for surface mount applications
- Easy pick and place
- Built-in strain relief
- Low forward voltage drop

## Package Marking and Ordering Information



SOD-123FL

Product ID	Pack	Marking	Qty(PCS)			
SOD1F1- SOD1F7	SOD-123FL	Fx	3000			



x: From 1-7

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

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

Type Number		SOD1F2	SOD1F3	SOD1F4	SOD1F5	SOD1F6	SOD1F7	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						uA	
Maximum Reverse Recovery Time (Note 1)		150 2				250 500		nS	
Typical Junction Capacitance (Note 2)		15							
Typical Thermal Resistance RqJA (Note 3)		80							
Operating and Storage Temperature Range TJ, Tsto		-65-+150							

#### Notes:

1. Reverse Recovery Time test condition: IF=0.5A, IR=1.0A, IRR=0.25A

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

3. Thermal Resistance from Junction to Ambient.



# **Typical Characteristics**

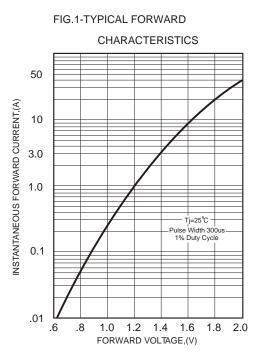
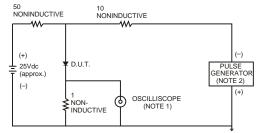
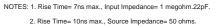


FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE







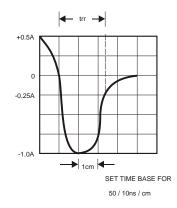
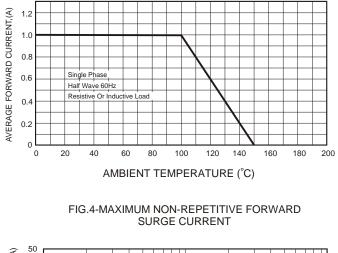
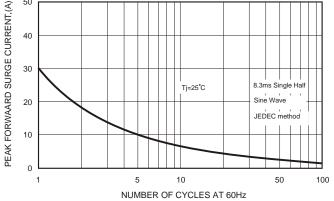
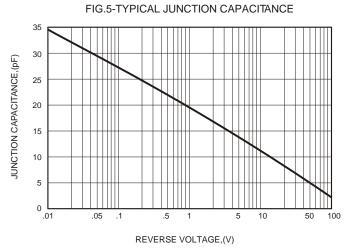


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

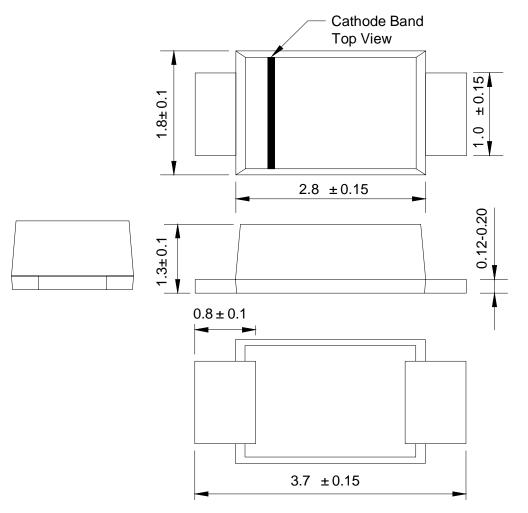








# SOD-123FL Package Outline Dimensions





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