

FEATURES

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

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)		
SOD1F1- SOD1F7	SOD-123F	F*	3000		





SOD-123FL



Maxmim Ratings (Ta=25 unless otherwise noted)

Rating 25°C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER	1F1	1F2	1F3	1F4	1F5	1F8	1F7	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				μА	
at Rated DC Blocking Voltage Ta=100°C	100						μА		
Maximum Reverse Recovery Time (Note 1)		150			250	500		nS	
Typical Junction Capacitance (Note 2)		15							
Typical Thermal Resistance R JA (Note 3)		80							
Operating and Storage Temperature Range Тл, Тsтс		-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.1-TYPICAL FORWARD

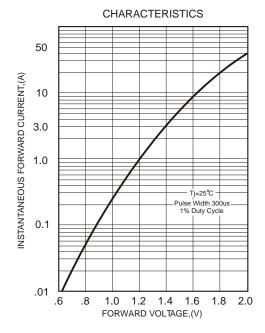
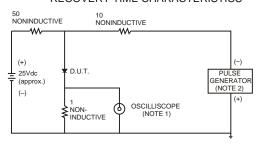


FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE

RECOVERY TIME CHARACTERISTICS



NOTES: 1. Rise Time= 7ns max., Input Impedance= 1 megohm.22pF.

2. Rise Time= 10ns max., Source Impedance= 50 ohms.

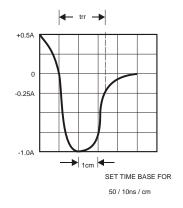


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

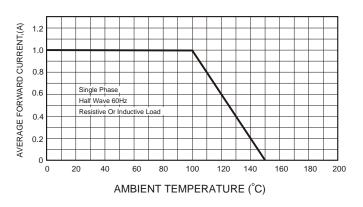


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

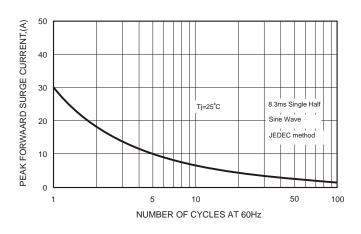
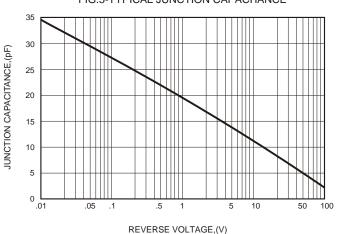
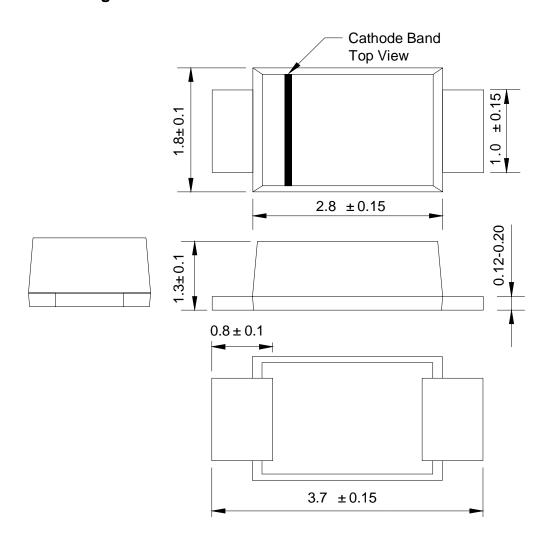


FIG.5-TYPICAL JUNCTION CAPACITANCE



SOD-123FL Package Outline Dimensions





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