

Features

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



SOD-123FL

Package Marking and Ordering Information

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





Maximum 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		SOD1F1	SOD1F2	SOD1F3	SOD1F4	SOD1F5	SOD1F6	SOD1F7	Units
Maximum Recurrent Peak Reverse Voltage	ximum Recurrent Peak Reverse Voltage		100	200	400	600	800	1000	V
Maximum RMS Voltage		35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at Ta=25°C		1.0							А
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		30							А
Maximum Instantaneous Forward Voltage at 1.0A			1.3						
Maximum DC Reverse Current	Ta=25℃				5.0				uA
at Rated DC Blocking Voltage	Ta=100°C		100						uA
Maximum Reverse Recovery Time (Note 1)		150				250 500		00	nS
Typical Junction Capacitance (Note 2) Typical Thermal Resistance RqJA (Note 3) Operating and Storage Temperature Range T _J , Tsτc			15						
			80						
			-65—+150						

- 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

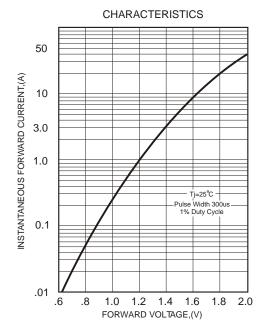
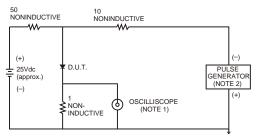


FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE

RECOVERY TIME CHARACTERISTICS



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

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

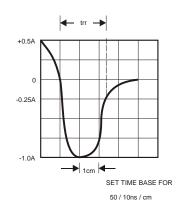


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

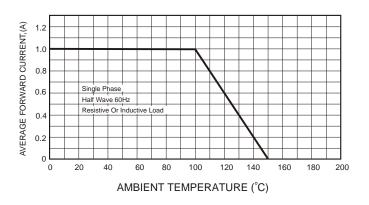


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

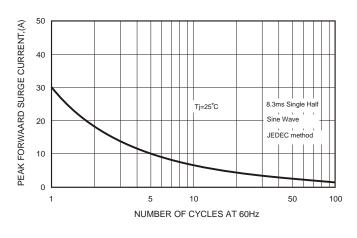
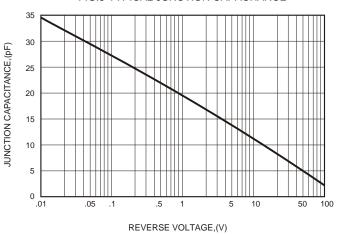
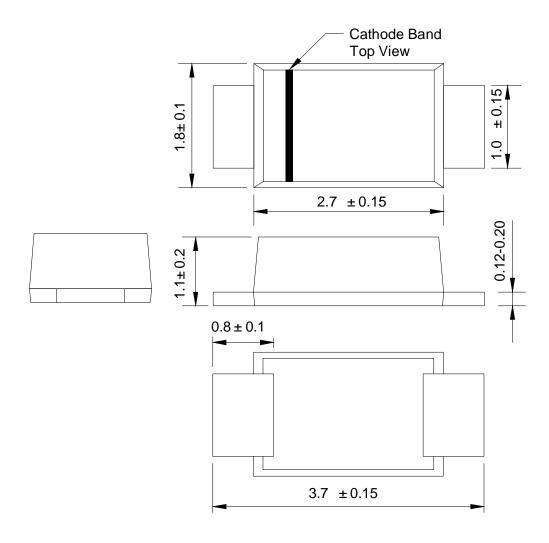


FIG.5-TYPICAL JUNCTION CAPACITANCE



SOD-123FL Package Outline Dimensions





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