

Features

- Average Forward Current: I_{F(AV)} =1A
- Polarity: Color band denotes cathode

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)			
F1-F7	SOD-123FL	Fx	3000			





SOD-123FL



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		F1	F2	F3	F4	F5	F6	F7	Units	
Maximum Recurrent Peak Reverse Voltage		50	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℃		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℃	5.0						uA		
at Rated DC Blocking Voltage	Ta=100°C	100					uA			
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 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

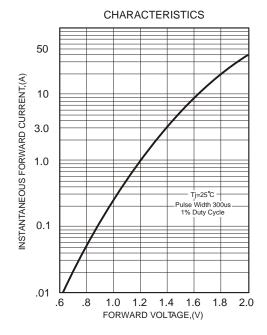
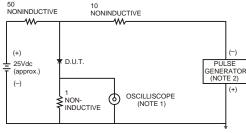


FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS



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

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

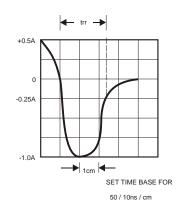


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

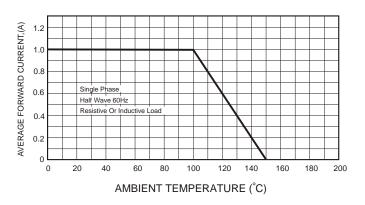


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

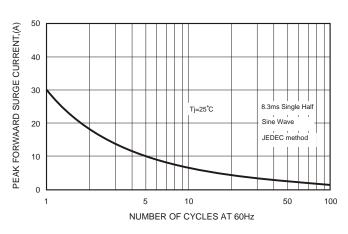
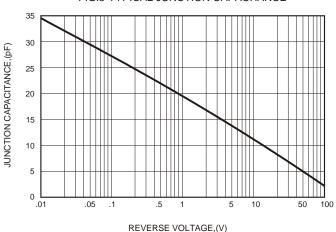
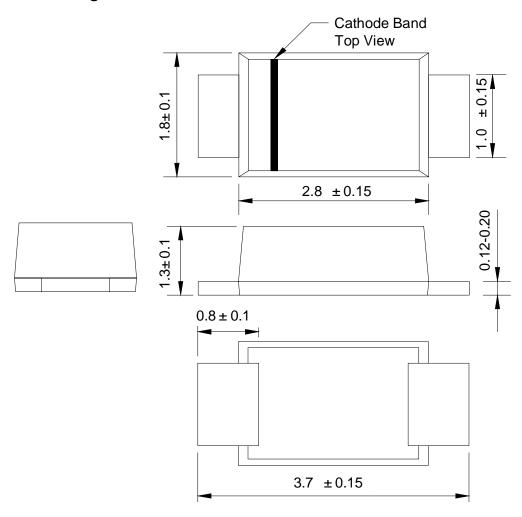


FIG.5-TYPICAL JUNCTION CAPACITANCE





SOD-123FL Package Outline Dimensions





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