

Features

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



Package Marking and Ordering Information

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

x: From A-M



SOD-123FL



Maximum 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 T _J , Tsτσ		-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.1-TYPICAL FORWARD

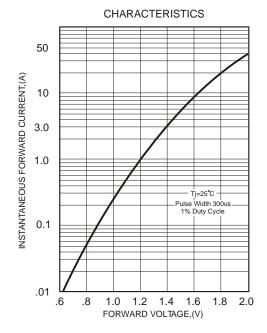
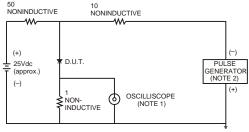


FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE

RECOVERY TIME CHARACTERISTICS



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

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

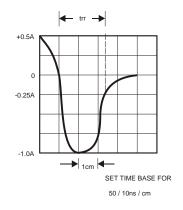


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

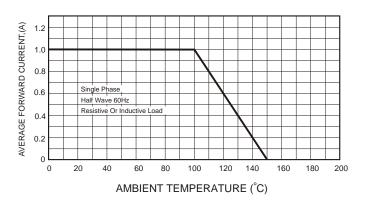


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

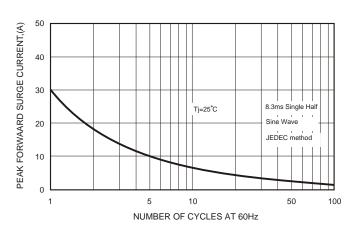
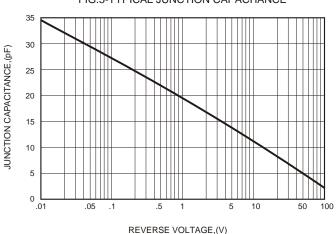
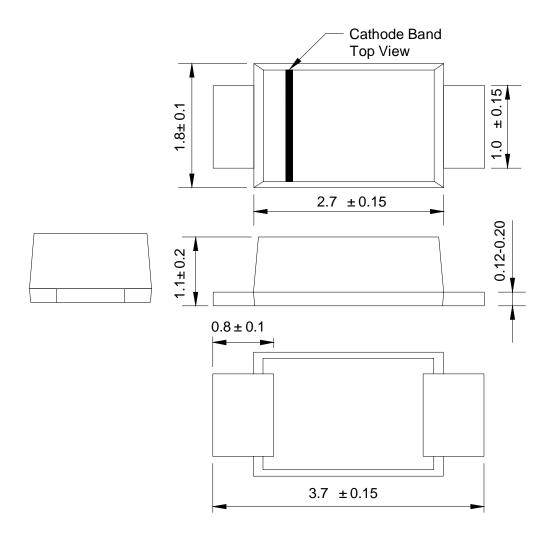


FIG.5-TYPICAL JUNCTION CAPACITANCE





SOD-123FL Package Outline Dimensions





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