

Features

Average Forward Current: I_{F(AV)}=1A

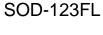
• Polarity: Color band denotes cathode

III to water

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)			
1N400xW	SOD-123FL	Ax	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%.

Symbol		A1	A2	А3	A4	A5	A6	A7	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=75°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		1.1							
Maximum DC Reverse Current	Ta=25°C				5				μΑ
at Rated DC Blocking Voltage	Ta=100℃				50				μА
Typical Junction Capacitance (Note 1)		11							
Typical Thermal Resistance R JA (Note 2)		90							°C/W
Operating and Storage Temperature Range Тл, Тsтс		-65 — +150							°C

NOTES:

- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2. Thermal Resistance from Junction to Ambient.



Typical Characteristics

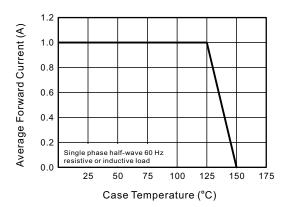


Fig.1 Forward Current Derating Curve

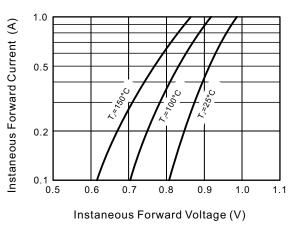


Fig.3 Typical Forward Characteristic

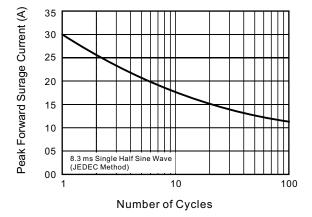


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

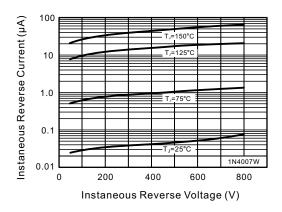


Fig.2 Typical Instaneous Reverse Characteristics

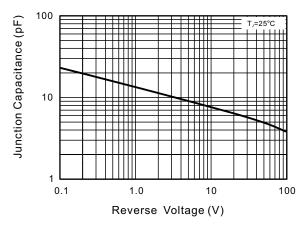
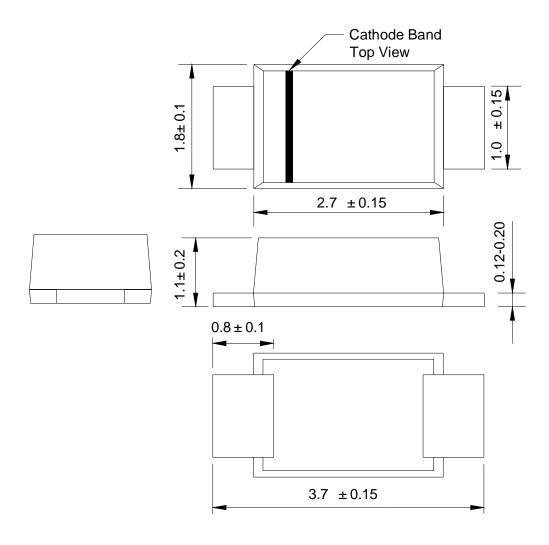


Fig.4 Typical Junction Capacitance



Package Outline Dimensions SOD-123FL





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