

Features

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

• Polarity: Color band denotes cathode



SOD-123FL



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)		
1N400xW	SOD-123FL	Ax	3000		

x: From 1-7

Maxmim Ratings (Ta=25 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		30							
superimposed on rated load (JEDEC method)		4.4							
Maximum Instantaneous Forward Voltage at 1.0A		1.1							
Maximum DC Reverse Current	Ta=25°C				5				μА
at Rated DC Blocking Voltage	Ta=100°C				50				μА
Typical Junction Capacitance (Note 1)		11							
Typical Thermal Resistance R JA (Note 2)		90							°C/W
Operating and Storage Temperature Range TJ, Tstc		-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

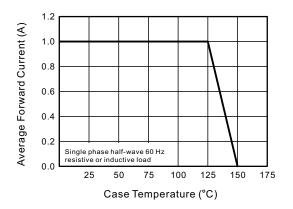


Fig.1 Forward Current Derating Curve

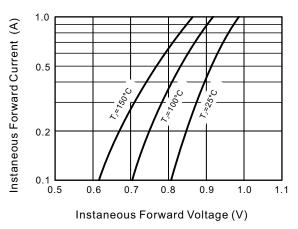


Fig.3 Typical Forward Characteristic

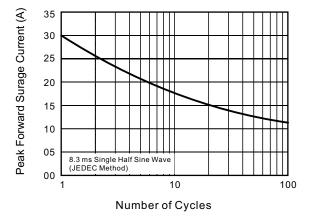


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

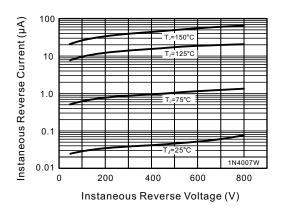


Fig.2 Typical Instaneous Reverse Characteristics

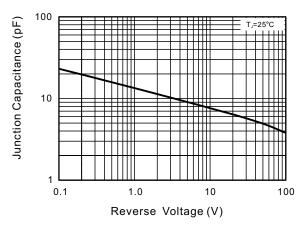
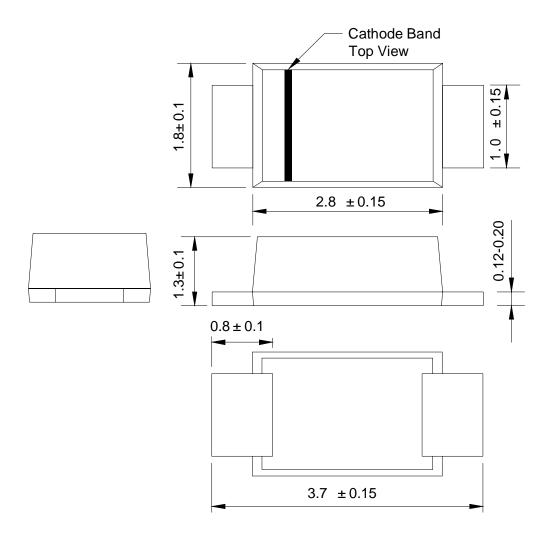


Fig.4 Typical Junction Capacitance



SOD-123FL Package Outline Dimensions





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