



**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	A3	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							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	30							A
Maximum Instantaneous Forward Voltage at 1.0A	1.1							V
Maximum DC Reverse Current Ta=25°C	5							μA
at Rated DC Blocking Voltage Ta=100°C	50							μA
Typical Junction Capacitance (Note 1)	11							pF
Typical Thermal Resistance R JA (Note 2)	90							°C/W
Operating and Storage Temperature Range Tj, Tstg	-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

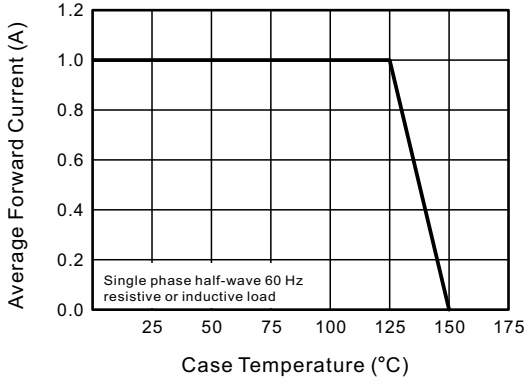


Fig.1 Forward Current Derating Curve

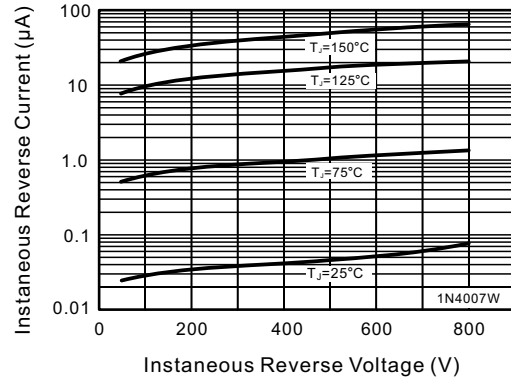


Fig.2 Typical Instantaneous Reverse Characteristics

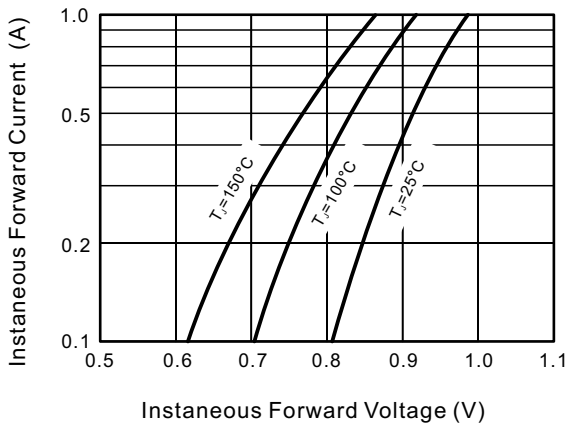


Fig.3 Typical Forward Characteristic

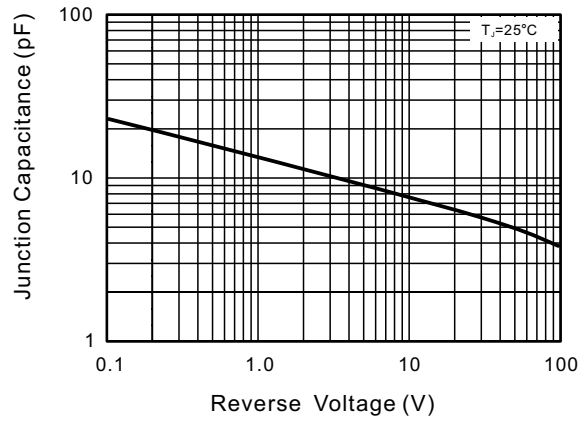


Fig.4 Typical Junction Capacitance

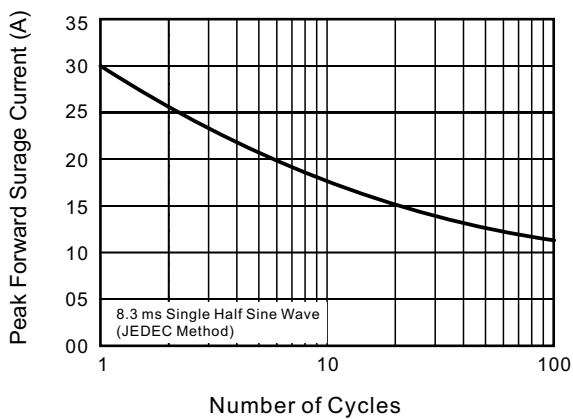
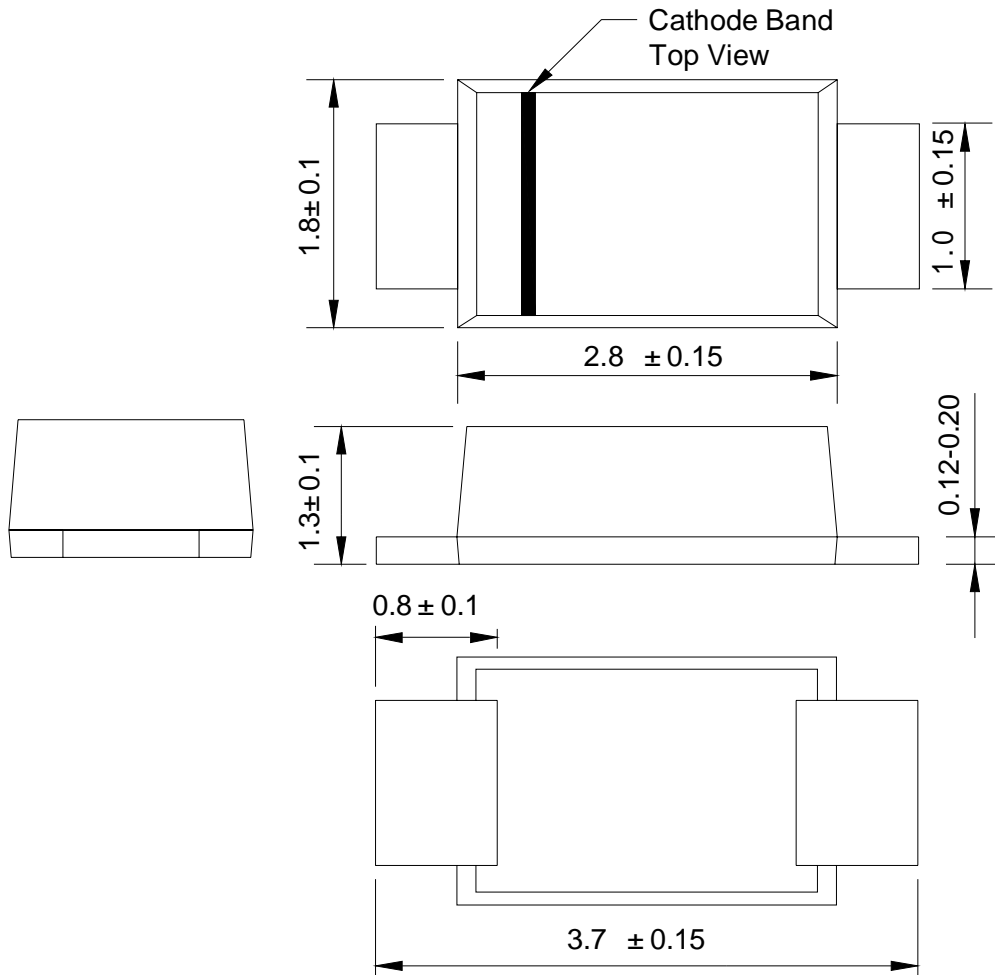


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



### SOD-123FL Package Outline Dimensions





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