



Features

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



Package Marking and Ordering Information

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

x: From 1-7

SOD-123FL



Maximum Ratings ($T_a=25^{\circ}C$ 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 $T_a=75^{\circ}C$	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 $T_a=25^{\circ}C$	5							μA
at Rated DC Blocking Voltage $T_a=100^{\circ}C$	50							μA
Typical Junction Capacitance (Note 1)	11							pF
Typical Thermal Resistance R_{JA} (Note 2)	90							$^{\circ}C/W$
Operating and Storage Temperature Range T_J, T_{STG}	-65 — +150							$^{\circ}C$

NOTES:

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



Typical Characteristics

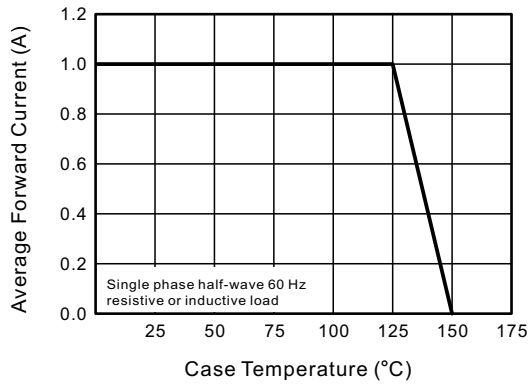


Fig.1 Forward Current Derating Curve

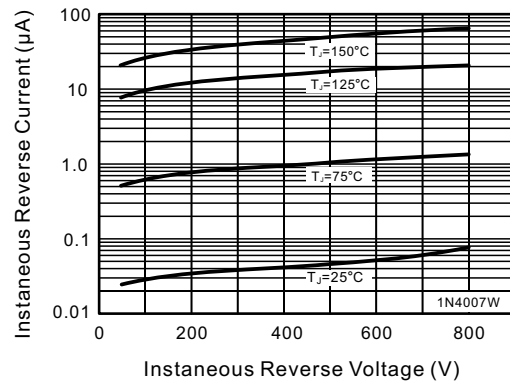


Fig.2 Typical Instantaneous Reverse Characteristics

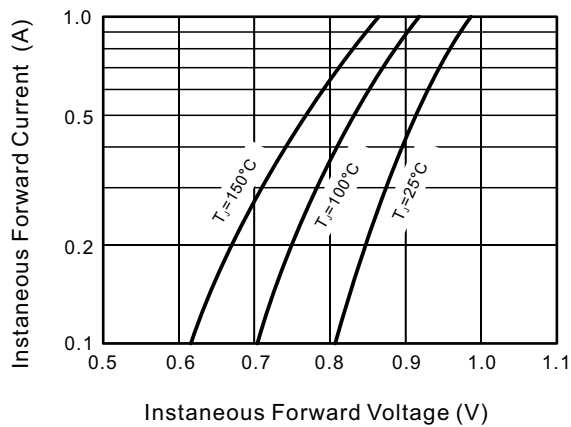


Fig.3 Typical Forward Characteristic

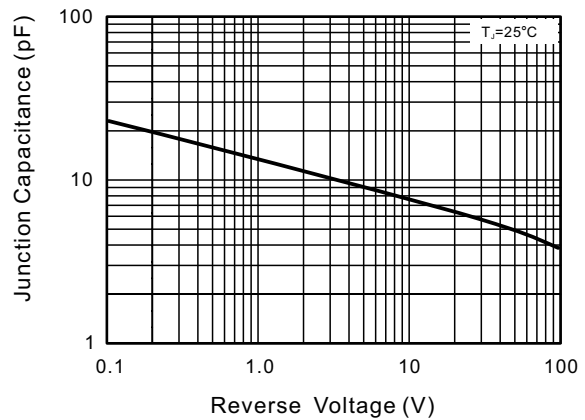


Fig.4 Typical Junction Capacitance

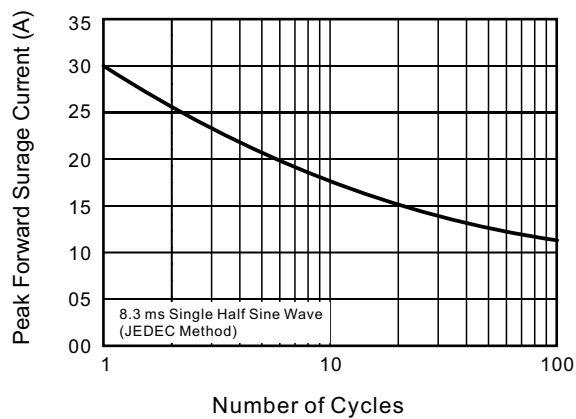
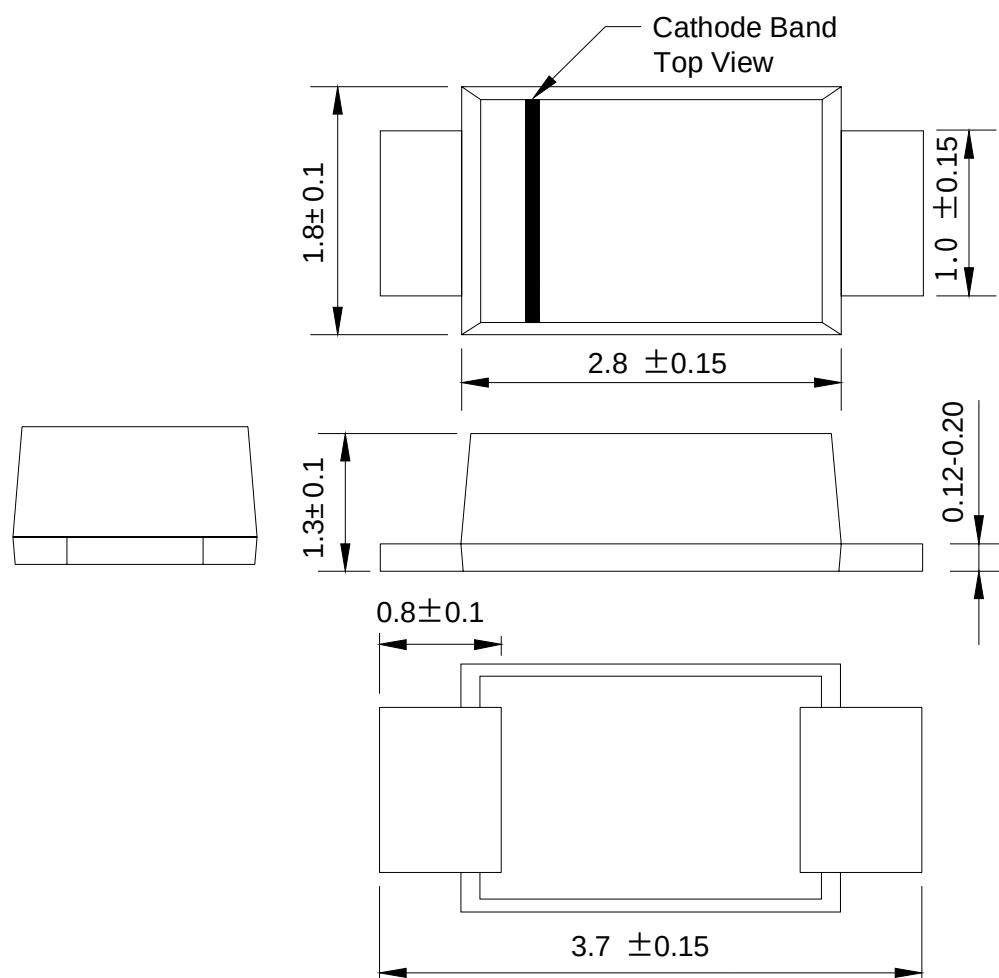


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



SOD-123FL Package Outline Dimensions





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