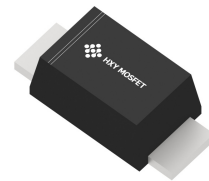




Features

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



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
2CZ4007	SOD-123FL	A7	3000

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%.

Symbol	Value	Units
Maximum Recurrent Peak Reverse Voltage	1000	V
Maximum RMS Voltage	700	V
Maximum DC Blocking Voltage	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 T _J , T _{STG}	-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

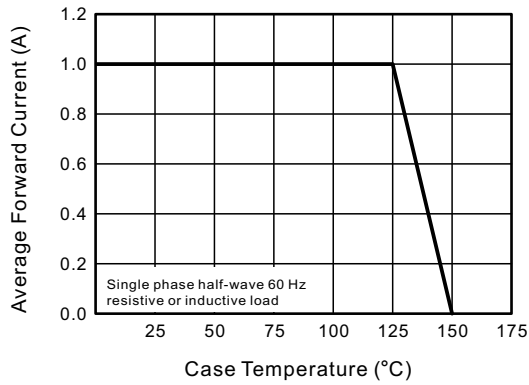


Fig.1 Forward Current Derating Curve

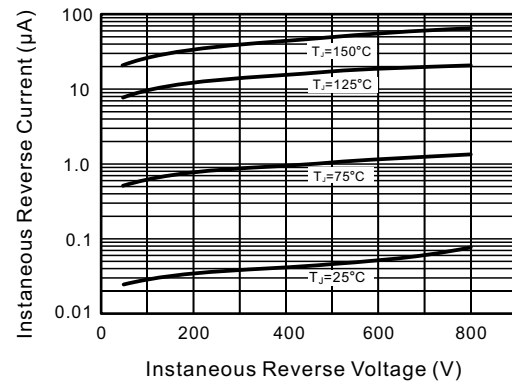


Fig.2 Typical Instantaneous Reverse Characteristics

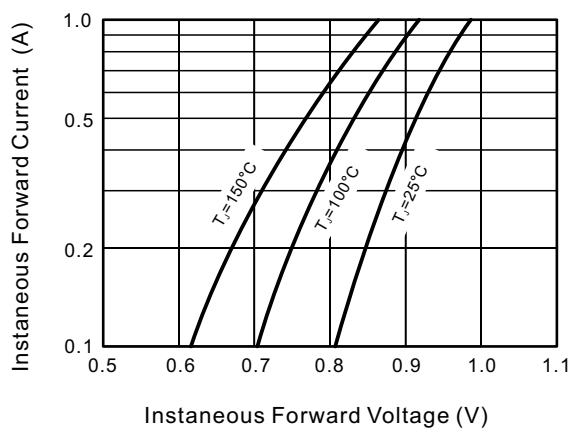


Fig.3 Typical Forward Characteristic

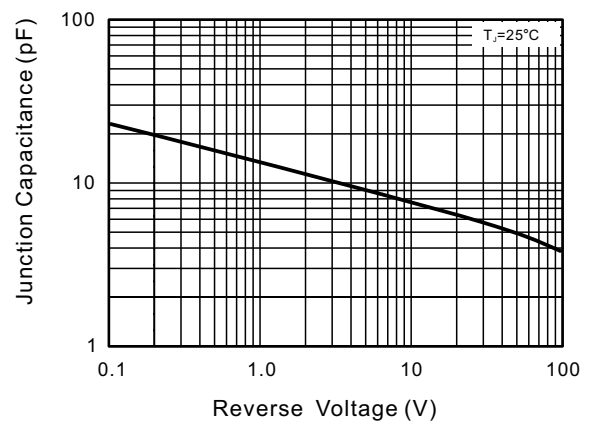


Fig.4 Typical Junction Capacitance

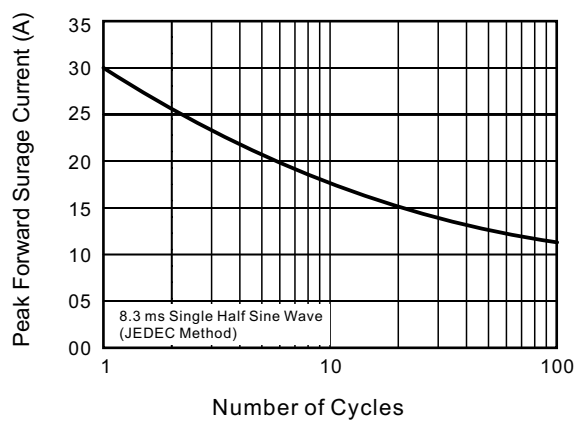
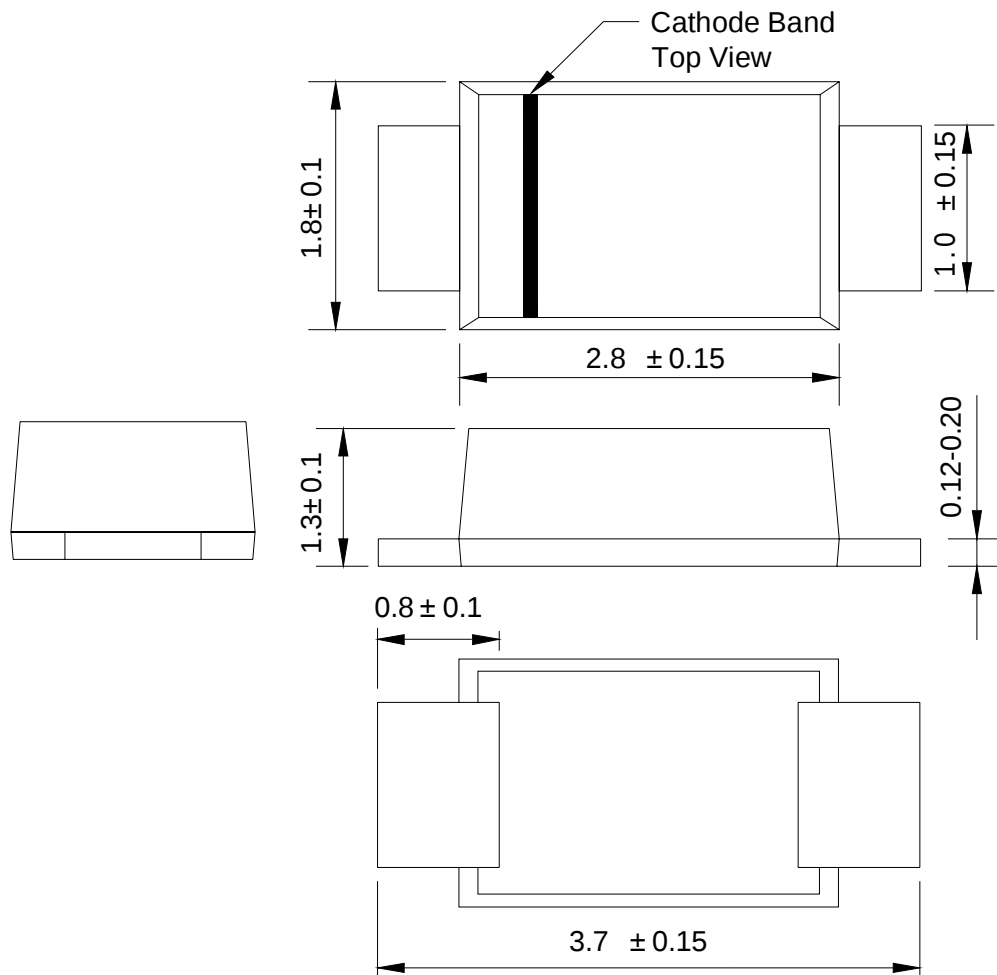


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



SOD-123FL Package Outline Dimensions





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