

#### **Features**

Average Forward Current: I<sub>F(AV)</sub>=1A

• Polarity: Color band denotes cathode

# HXY

## SOD-123FL



# **Package Marking and Ordering Information**

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

### Maxmim Ratings (Ta=25 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	А
Peak Forward Surge Current, 8.3 ms single half sine-wave		
superimposed on rated load (JEDEC method)	30	А
Maximum Instantaneous Forward Voltage at 1.0A	1.1	V
Maximum DC Reverse Current Ta=25°C	5	μА
at Rated DC Blocking Voltage Ta=100℃	50	μА
Typical Junction Capacitance (Note 1)	11	pF
Typical Thermal Resistance R JA (Note 2)	90	°C/W
Operating and Storage Temperature Range T <sub>J</sub> , Ts <sub>TG</sub>	-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**

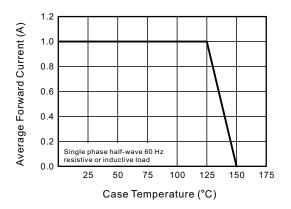


Fig.1 Forward Current Derating Curve

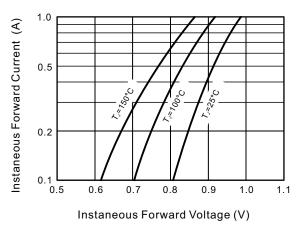


Fig.3 Typical Forward Characteristic

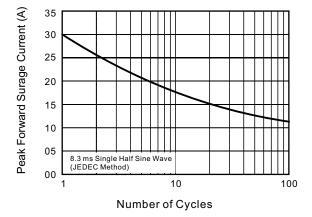


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

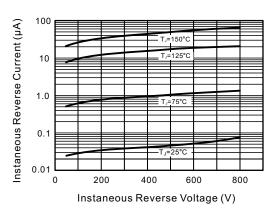


Fig.2 Typical Instaneous Reverse Characteristics

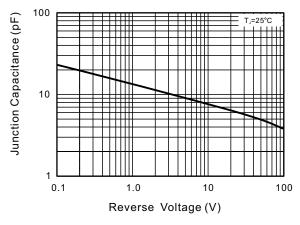
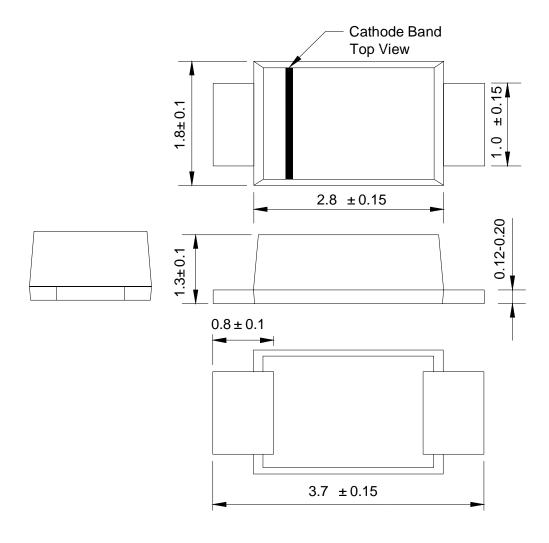


Fig.4 Typical Junction Capacitance



# **SOD-123FL Package Outline Dimensions**





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