

ZX-101 Analog Temperature Sensor

Description

The ZX-101 is a low-cost analog temperature sensor designed for general-purpose thermal measurement. It outputs a voltage that is linearly proportional to the Celsius temperature. Its low power requirements make it ideal for battery-operated systems.

Features

- Temperature range: -40°C to +125°C
- Output voltage: 10 mV/°C
- Accuracy: $\pm 1.5^{\circ}\text{C}$ (typical)
- Supply voltage: 3.0V to 5.5V
- Low power: <60 uA current draw
- Package: TO-92

Applications

Typical applications include:

- Environmental monitoring
- Industrial temperature control
- Consumer electronics
- HVAC systems

Pin Configuration

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Pin Configuration (TO-92 Package):

1. VCC (Power Supply)
2. VOUT (Analog Voltage Output)
3. GND (Ground)