



Thermostat Output Temperature Sensors

ROHM's output ICs with temperature switching function (BDExxx0G series) eliminate the need for the complicated circuitry required in conventional thermistor-type temperature detection circuits by integrating a high precision reference voltage source, comparator, constant current circuit, and temperature detection element in a single chip.

Additional features include adjustable detection temperature (3-stage: target, $\pm 5^{\circ}\text{C}$), high detection accuracy ($\pm 4^{\circ}\text{C}$), low current consumption (16 μA typ.), detection temperature hysteresis, and open drain/active low output. Fifteen models are offered in a wide range of temperatures (-20°C to $+120^{\circ}\text{C}$, in 10°C increments) including SSOP5 package types.

Key Features

- Open Drain output
- Low voltage operation
- High detection accuracy
- Low current consumption
- Adjustable detection temperature
- Compact package

Applications

Thermal protection/fan control circuits in a variety of devices:

- LED lighting products
- HVAC systems
- White goods
- High power speaker amplifiers

Pricing

Quantity per reel: 3,000 pieces

Price: \$0.36

Samples: Available now

More info

http://www.rohm.com/products/lsi/sensor/temperature_sensor/thermostat/