

2 WIRE SERIAL TEMP SENSOR, -55C to +125C, 8-SOIC 150mil, TUBE,Board Mount
Temperature Sensors High-Accuracy 12-bit

Manufacturers	Microchip Technology, Inc
Package/Case	SOIC-8
Product Type	Temperature Sensors
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for MCP9801-M/SN or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The MCP9801 is a digital temperature sensor capable of reading temperatures from -55°C to +125°C. Temperature data is measured from an integrated temperature sensor and converted to digital word with a user selectable 9 to 12-bit Sigma Delta Analog to Digital Converter. The MCP9801 notifies the host controller when the ambient temperature exceeds a user programmed set point. The ALERT output is programmable as either a simple comparator for thermostat operation or as a temperature event interrupt. Communication with the sensor is accomplished via a two-wire bus that is compatible with industry standard protocols. This permits reading the current temperature, programming the set point and hysteresis and configuring the device. Address selection inputs allow up to eight MCP9801 sensors to share the same 2-wire bus for multizone monitoring. Small physical size, low installed cost and ease of use make the MCP9801 an ideal choice for implementing sophisticated temperature system management schemes in a variety of applications.

Features

2-wire I²C™/SMBus Compatible Interface

User Selectable 9- to 12-Bit Resolution

Low Operating Current: 220 μ A (typical)

Shutdown Mode: 1 μ A (max)

Power Saving One-Shot Temperature Conversion Measurement

Space Saving MSOP and SOIC Packages

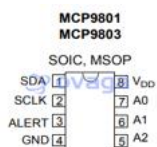
AEC-Q100 Qualified Grade 1

Related Products



[MCP9701AT-E/LT](#)

Microchip Technology, Inc
SC70-5



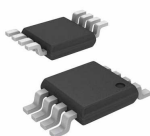
[MCP9803-M/MS](#)

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