Digital Temperature Sensor; Package: 8L DFN 2x3mm; Temperature Range: 150C / 1hr w/l 24 hours,Board Mount Temperature Sensors 12-bit Therm Sensor Serial Hi-Accur

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

Images are for reference only

Please submit RFQ for MCP9804T-E/MC or Email to us: sales@ovaga.com We will contact you in 12 hours.

RFQ

General Description

The MCP9804 digital temperature sensor converts temperatures between -40°C and +125°C to a digital word with ±1°C (max.) accuracy.The MCP9804 comes with user-programmable registers that provide flexibility for temperature sensing applications.The registers allow user-selectable settings such as Shutdown or low-power modes and the specification of temperature Event and Critical output boundaries. When the temperature changes beyond the specified boundary limits, the MCP9804 outputs an Event signal. The user has the option of setting the event output signal polarity as an active-low or active-high comparator output for thermostat operation, or as temperature event interrupt output for microprocessor-based systems. The event output can also be configured as a Critical temperature output.This sensor has an industry standard 2-wire, SMBus and Standard I2C™Compatible compatible (100kHz/400kHz bus clock) serial interface, allowing up to eight sensors to be controlled in a single serial bus. These features make the MCP9804 ideal for sophisticated multi-zone temperature- monitoring applications.

Features

Accuracy:±0.25°C (typ.) from -40°C to +125°C

Accuracy:±1°C (max.) from -40°C to +125°C

Operating Voltage Range: 2.7V to 5.5V

2-wire Interface: I2C/SMBus Compatible

Operating Current: 200 µA (typ.)

Shutdown Current: 2 µA (max.)

Available Packages: MSOP-8, 2x3 DFN8

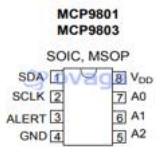AEC-Q100 Qualified Grade 1

Related Products

MCP9701AT-E/LT

Microchip Technology, Inc

SC70-5

MCP9803-M/MS

Microchip Technology, Inc

MSOP-8

TC77-5.0MCTTR

Microchip Technology, Inc

SOT-23A-5

MCP9804-E/MS

Microchip Technology, Inc

MSOP-8

EMC1412-2-ACZL-TR

Microchip Technology, Inc

MSOP-8

MCP9808T-E/MC

Microchip Technology, Inc

DFN-8
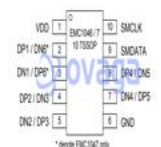
EMC1047-2-AIZL-TR

Microchip Technology, Inc

MSOP-10

MCP9803-M/SN

Microchip Technology, Inc

SOIC-8