

Temp Sensor Digital Serial (2-Wire, I2C) 8-Pin WDFN EP T/R

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



Images are for reference only

Please submit RFQ for AT30TS00-MAH-T or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

Microchip Technology Inc.'s AT30TS00 digital temperature sensor converts temperature from -40°C and $+125^{\circ}\text{C}$ to a digital word. This sensor meets JEDEC Specification TSE3000B3 Mobile Platform Memory Module Thermal Sensor Component. It provides an accuracy of $\pm 0.5^{\circ}\text{C}/\pm 1^{\circ}\text{C}$ (typical/maximum) from $+75^{\circ}\text{C}$ to $+95^{\circ}\text{C}$.

The Atmel 11-bit resolution digital temperature sensor features programmable over-temperature alarms and a two-wire I2C/SMBus compatible serial interface specifically designed for DRAM memory module applications. The sensor converts temperatures from -20°C to $+125^{\circ}\text{C}$ to a digital word and provides a typical accuracy of $\pm 1^{\circ}\text{C}$ (max.) over the operating temperature range of $+75^{\circ}\text{C}$ to $+95^{\circ}\text{C}$. It continuously monitors temperature and updates data in the temperature register at least eight times per second.

Features

Meets JEDEC Specification TSE3000B3

Optimized for Voltage Range: 2.7V to 3.6V

Shutdown/Standby Current: 3 μ A (max.)

2-wire I2C™/SMBus Interface

meets 25ms to 35ms SMBus timeout

Available Packages:

DFN-8

Temperature Sensor Features

Class B — Temperature-to-Digital Converter

Sensor Accuracy:

20°C to +125°C

Operating Current: 200 μ A (typical)

Related Products



[MCP9701AT-E/LT](#)

Microchip Technology, Inc
SC70-5



[AT30TSE002B-MAH-T](#)

Microchip Technology, Inc
WDFN-8



[TC650ACVUATR](#)

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[TC650AGVUATR](#)

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