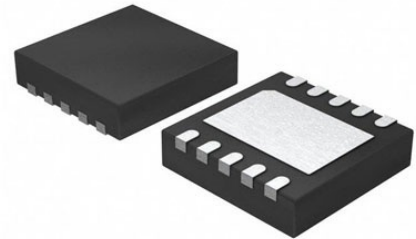


1-ch TmpSnsr, NV Reg, I2C - 1.7-5.5V, 1MHz, Ind High Tmp, 8-UDFN

Manufacturers	Microchip Technology, Inc
Package/Case	UDFN-8
Product Type	Integrated Circuits (ICs)
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for AT30TS750A-MA8M-T or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

Microchip's AT30TS750A temperature sensor is capable of measuring and converting temperatures from -55°C to +125°C to a digital word and provides a typical accuracy of $\pm 0.5^\circ\text{C}$ over the operating temperature range of 0°C to +85°C.

The AT30TS750A combines precision temperature monitoring and nonvolatile (NVM) registers. The value-added NVM registers allow user configuration settings to be permanently retained across power cycles to simplify the system design, reduce processor startup code, and improve system reliability.

The AT30TS750A is factory calibrated and requires no external components to help provide a cost effective solution. To reduce current consumption and save power, the device features a shutdown mode which turns off all internal circuitry except for the internal power-on reset and serial interface circuits. In addition, the device features a power saving one-shot mode that allows the device to make a temperature measurement and update the temperature register and then return to shutdown mode. The AT30TS750A is based on the industry standard "LM75-type" compatible temperature sensor and is a precision temperature monitoring device designed for use in a variety of applications. The device combines a highly accurate digital temperature sensor with programmable high and low temperature alarms, user-selectable resolution up to 12 bits, and an I2C/SMBus compatible serial interface available in compact packages.

Features

2-wire I²C™/SMBus Compatible Interface

Single 1.7V to 5.5V Supply

Integrated Nonvolatile Registers

User Selectable 9- to 12-Bit Resolution

Low Operating Current: 150 μ A (typical)

Shutdown Mode: 0.6 μ A (typical)

Power Saving One-Shot Temperature Conversion Measurement

Space Saving SOIC, DFN, MSOP Packages available

Related Products



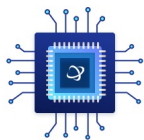
[ATA6563-GAQW0](#)

Microchip Technology, Inc
SOIC-8



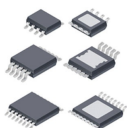
[AT30TSE004A-MAA5M-T](#)

Microchip Technology, Inc
WDFN-8



[ATMEGA808-MU](#)

Microchip Technology, Inc



[ATTINY3226-SU](#)

Microchip Technology, Inc
SOIC



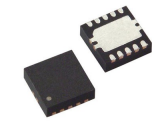
[AT42QT1040-MMHR](#)

Microchip Technology, Inc
VQFN-20



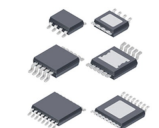
[AT30TS74-SS8M-T](#)

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[ATSAMC21G17A-MZTVAO](#)

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VQFN



[ATTINY3224-SSU](#)

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