

Digital Temperature Sensor IC

MM3285



Outline

This IC is an I2C BUS compatible digital temperature sensor IC incorporating a temperature sensor and sigma-delta AD converter. It provides low current consumption and I2C BUS compatible interface, which makes it ideal for a wide range of applications.

Applications

Flat TVs System temperature monitering
Tablet PCs, PCs Office automation equipments
PC servers / network servers

Features

Low voltage operation: 3.0V to 5.5V
 Low current consumption: 75µA typ.
 Fast update of time: 2ms typ.

4 Accuracy: ±2.0°C (25°C to +100°C)

⑤ Resolution: 9 bits (0.5°C)

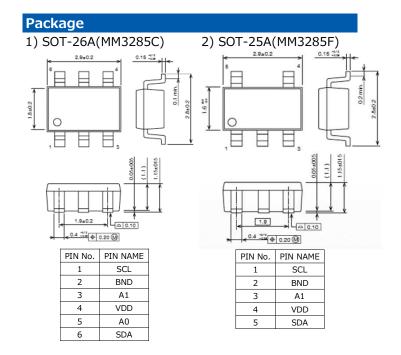
6 Shutdown mode minimizing current consumption

② I²C BUS compatible interface

Specification

Item	Specification	Unit
Operation temperature	−40 ~ +125	$^{\circ}$
Operating voltage	$3.0 \sim 5.5$	V
Supply current	75 (typ.)	μΑ
Temperature accuracy	±2.0 (-25~+100°C)	$^{\circ}$
Resolution	9 (0.5℃)	bit
Data update time	2	ms
Start-up Reset Voltage	2.1	V

3.3V VDD VDD 10kΩ 10kΩ 10kΩ MASTER MASTER SCL GND *pic: MM3285C





Application circuit





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