

Digital Temperature Sensor IC

MM3286



Outline

This IC is an I2CBUS compatible digital temperature sensor IC that incorporates a temperature sensor and a sigma-delta AD converter. It offers low current consumption and an I2C BUS compatible interface, making it ideal for a wide range of applications.

It also has a built-in thermostat function to improve safety.

Applications

Flat TVs System temperature monitoring Tablet PCs, PCs Office automation equipments

PC servers / network servers

Features

① Low voltage operation: 3.0V to 5.5V 2 Low current consumption: 75µA typ.

3 Fast update of time: 2ms typ.

4 Accuracy: ±2.0°C (25°C to +100°C)

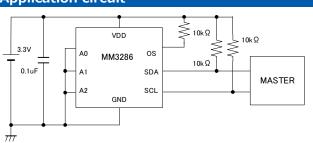
⑤ Resolution: 9 bits (0.5°C)

- 6 Shutdown mode minimizing current consumption
- ② I²C BUS compatible interface
- ® Up to 8 ICs can be built into a bus

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
O.S. Output Saturation	0.4	Vmax

Block Diagram Application circuit



Package SOP-8D 4.4 ± 0.2 0~10° 0.895max.





https://mtm-sec.mitsumi.co.jp/web/ic/

Mitsumi Electric CO.,LTD.

Semiconductor Business Division tel:+81-46-230-3470 Strategy Engineering Department

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