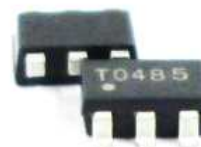


Digital Temperature Sensor IC

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 monitoring
Tablet PCs, PCs Office automation equipments
PC servers / network servers

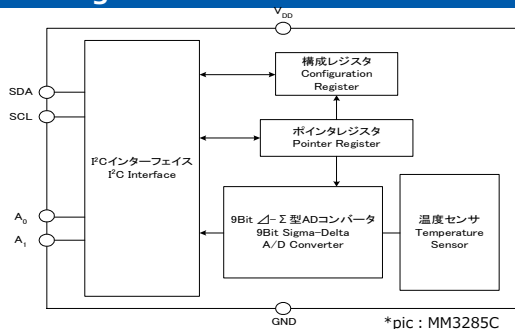
Features

- ① Low voltage operation: 3.0V to 5.5V
- ② Low current consumption: 75μA typ.
- ③ Fast update of time: 2ms typ.
- ④ Accuracy: $\pm 2.0^{\circ}\text{C}$ (25°C to $+100^{\circ}\text{C}$)
- ⑤ Resolution: 9 bits (0.5°C)
- ⑥ Shutdown mode minimizing current consumption
- ⑦ I²C BUS compatible interface

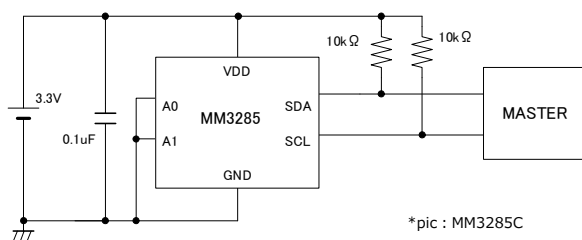
Specification

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

Block Diagram

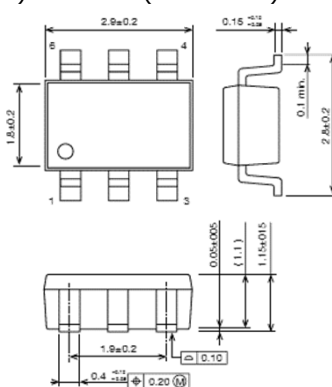


Application circuit



Package

1) SOT-26A(MM3285C)



2) SOT-25A(MM3285F)

