



# Multiple Channel 1°C Temperature Sensor with Selectable Address

## PRODUCT FEATURES

Data Brief

### General Description

The EMC1073 and EMC1074 are high accuracy, low cost, System Management Bus (SMBus) temperature sensors with pin selectable SMBus addresses.

Each device provides  $\pm 1^\circ$  accuracy (max) for external diode temperatures and  $\pm 2^\circ\text{C}$  accuracy (max) for the internal diode temperature. The EMC1073 monitors three temperature channels (two external and one internal). The EMC1074 monitors four temperature channels (three external and one internal).

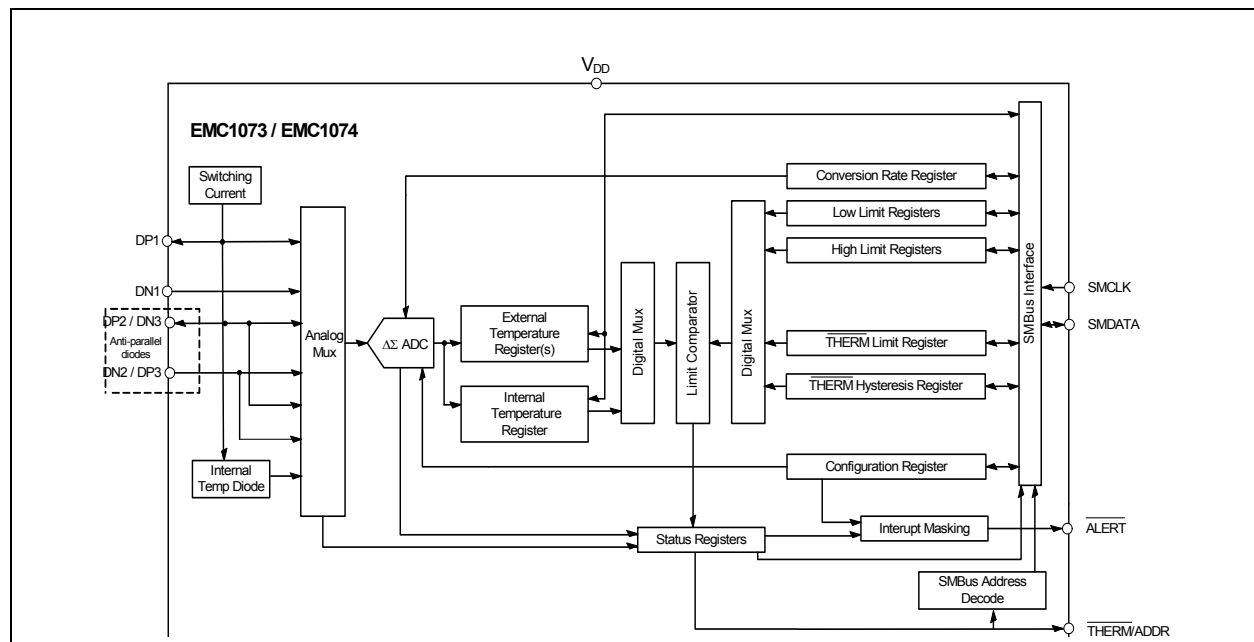
### Applications

- Notebook Computers
- Desktop Computers
- Industrial
- Embedded applications

### Features

- External Temperature Monitors
  - $\pm 0.25^\circ\text{C}$  typ accuracy ( $20^\circ\text{C} < T_{\text{DIODE}} < 110^\circ\text{C}$ )
  - $0.125^\circ\text{C}$  resolution
  - Supports 2N3904 and AMD diodes
  - Anti-parallel diodes for extra diode support (EMC1074)
- Internal Temperature Monitor
  - $\pm 0.25^\circ\text{C}$  typ accuracy ( $-5^\circ\text{C} < T_A < 100^\circ\text{C}$ )
- 3.3V Supply Voltage
- SMBus 2.0 Compliant
  - Programmable SMBus address
- Programmable Temperature Limits for ALERT and THERM
- Available in Small 10-pin MSOP Lead-free RoHS Compliant Package

### Block Diagram



**Order Number(s):****EMC1073-1-AIZL-TR for 10-pin, MSOP Lead-Free RoHS Compliant Package****EMC1073-A-AIZL-TR for 10-pin, MSOP Lead-Free RoHS Compliant Package****EMC1074-1-AIZL-TR for 10-pin, MSOP Lead-Free RoHS Compliant Package****EMC1074-A-AIZL-TR for 10-pin, MSOP Lead-Free RoHS Compliant Package**

Reel size is 4,000 pieces

**This product meets the halogen maximum concentration values per IEC61249-2-21****For RoHS compliance and environmental information, please visit [www.smsc.com/rohs](http://www.smsc.com/rohs)**

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# Package Outline

Revision 1.39 (10-11-10)

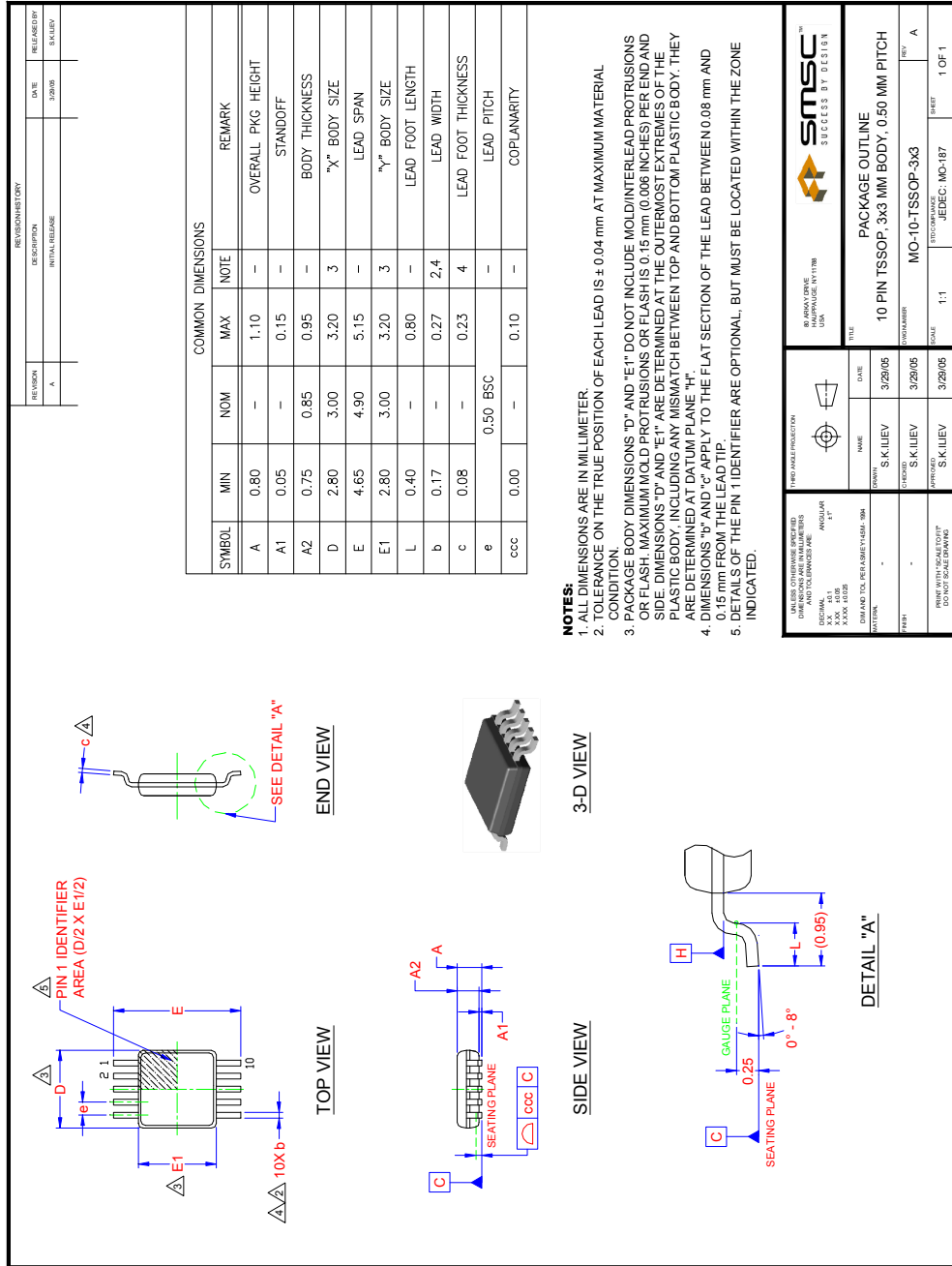


Figure 1 10-Pin MSOP / TSSOP Package