

# **Multiple Channel 1°C Temperature** Sensor with Selectable Address

EMC1073 / EMC1074

## **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 ±1° accuracy (max) for external diode temperatures and ±2°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
  - ±0.25°C typ accuracy (20°C < T<sub>DIODE</sub> < 110°C) 0.125°C resolution
  - Supports 2N3904 and AMD diodes
  - Anti-parallel diodes for extra diode support (EMC1074)
- Internal Temperature Monitor
- ±0.25°C typ accuracy (-5°C < T<sub>A</sub> < 100°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**





#### 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



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Figure 1 10-Pin MSOP / TSSOP Package