High Accuracy Digital Temperature Sensor and Thermal Watchdog with Two-Wire Interface

Features

- **SMBus interface**
- **Hardware Power-on Setting & Programmable over temperature limit**
- **Separate open-drain output pin operates as interrupt or comparator at output**
- **Register readback capability**
- **Power up defaults permit stand-alone operation as thermostat**
- **Shutdown mode to minimize power consumption**

Key Specifications

- **Supply Voltage** 3.0V to 3.6V
- **Supply Current** operating 110µA (typ)
  130µA (max)
  shutdown 1µA (max)
- **Temperature Accuracy**
  -10°C to 80°C ±1°C (max)
  -55°C to 125°C ±3°C (max)

General Description

The G753 is a temperature sensor, analog-to-digital converter, and digital over- temperature detector with SMBus interface. The host can query the G753 at any time to read temperature. The open-drain ALERT# output becomes active when the temperature exceeds a programmable limit which initialed by hardware power-on setting. This pin can operate in either "Comparator" or "Interrupt" mode.

Applications

- **System Thermal Management**
- **Personal Computers**
- **Office Electronics**
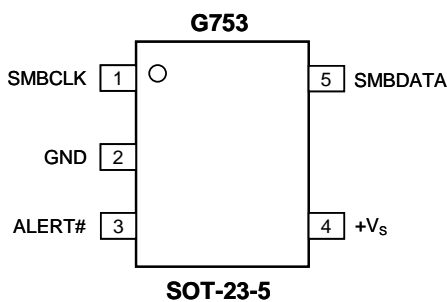- **Electronic Test Equipment**

Ordering Information

ORDER NUMBER	MARKING	PACKAGE (Green)
G753T11U	753xx	SOT-23-5

Note: T1: SOT-23-5
  1 : Bonding Code
  U: Tape & Reel

Pin Configuration

SOT-23-5

Typical Application Circuit