

## Programmable Remote Thermal Diode Temperature Switch

### Features

- $\pm 1.0^{\circ}\text{C}$  Typical Threshold Accuracy
- $\pm 3.0^{\circ}\text{C}$  (max) Threshold Accuracy (+60°C to +100°C)
- Temperature Threshold Set by Pin SET0, SET1
- Open-Drain Active Low Output Stage
- Pin-Selectable 2°C or 10°C Hysteresis
- SOP-8 and MSOP-8 Packages

### Applications

- $\mu\text{P}$  Temperature Monitoring in High-Speed Computers
- Temperature Control
- Temperature Alarms
- Fan Control
- Automotive

### General Description

The G707 is a fully integrated, programmable remote thermal diode temperature switch with a threshold set by pin-strapping SET0 and SET1. The remote diode is a diode-connected transistor typically low-cost, easily mounted 2N3904 NPN type, 2N3906 PNP type transistor or CPU/GPU build-in thermal diode. It requires only let pin SET0 and SET1 tie to GND, VCC or floating to set the temperature threshold within a 60°C to +124°C temperature range. The G707 provides an open-drain, active low output stage. This switch operates with a +3.0V to +5.5V single supply while providing a temperature threshold accuracy of  $\pm 1.0^{\circ}\text{C}$  (TYP) or  $\pm 3.0^{\circ}\text{C}$  (max, +60°C to +100°C). Hysteresis is pin selectable to 2°C or 10°C.

### Ordering Information

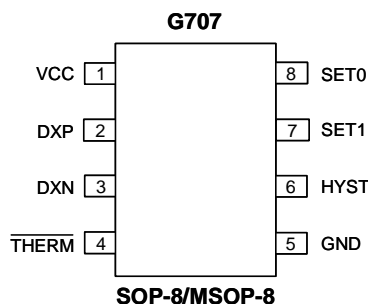
ORDER NUMBER	MARKING	TEMP. RANGE	PACKAGE (Pb free)
G707P11U	G707	-40°C~+125°C	SOP-8
G707P81U	G707	-40°C~+125°C	MSOP-8

Note: P1 : SOP-8 P8 : MSOP-8

1: Bonding Code

U : Tape & Reel

### Pin Configuration



### Typical Application Circuit

