

Resistor-Programmable SOT Temperature Switches

Features

- $\pm 0.5^{\circ}\text{C}$ Typical Threshold Accuracy
- $\pm 3.5^{\circ}\text{C}$ (max) Threshold Accuracy(0°C to $+125^{\circ}\text{C}$)
- $\pm 3^{\circ}\text{C}$ Threshold Accuracy(60°C to $+100^{\circ}\text{C}$)
- Temperature Threshold Set by a 1% External Resistor
- Low $33\mu\text{A}$ Supply Current
- Open-Drain Active Low Output Stage
- Guaranteed Reset Valid to $V_{\text{CC}} = 0.8\text{V}$
- Pin-Selectable 10°C or 30°C Hysteresis
- SOT-23-5 and TDFN2X2-8 Packages

Applications

- μP Temperature Monitoring in High-Speed Computers
- Temperature Control
- Temperature Alarms
- Fan Control
- Automotive

General Description

The G708 are fully integrated, resistor programmable temperature switches with thresholds set by an external resistor. They require only one external resistor to set the temperature threshold within a wide 0°C to $+125^{\circ}\text{C}$ temperature range. The G708 provides an open-drain, active low output. These switches operate with a $+2.7\text{V}$ to $+5.5\text{V}$ single supply while providing a temperature threshold accuracy of $\pm 0.5^{\circ}\text{C}$ (TYP) or $\pm 3.5^{\circ}\text{C}$ (MAX) or $\pm 3^{\circ}\text{C}$ (60°C to $+100^{\circ}\text{C}$). They typically consume $33\mu\text{A}$ supply current. Hysteresis is pin selectable to 10°C or 30°C . The G708 are available in 5-pin SOT-23 and TDFN2X2-8 packages.

Ordering Information

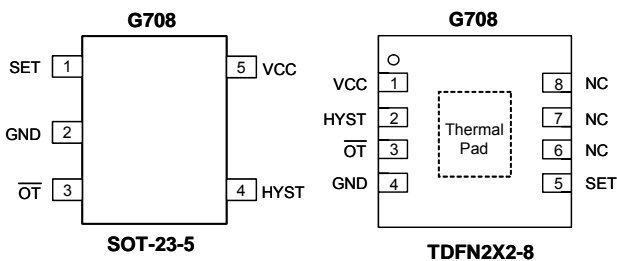
ORDER NUMBER	MARKING	TEMP. RANGE	PACKAGE (Green)
G708T1U	708xx	$-40^{\circ}\text{C}\sim+125^{\circ}\text{C}$	SOT-23-5
G708RCU	708	$-40^{\circ}\text{C}\sim+125^{\circ}\text{C}$	TDFN2X2-8

Note:T1 : SOT-23-5 RC: TDFN2X2-8

U : Tape & Reel

is 2.63V

Pin Configuration



Note 1: Thermal Pad is NC
 Note 2: Connect Thermal Pad and pin 6,7,8 to heat source by PCB copper for good heat conduction.

Typical Application Circuit

