

GX709 Resistor-Programmable Temperature Switch

1 Features

- Threshold Accuracy:
 - $\pm 0.5^{\circ}\text{C}$ Typical
 - $\pm 3^{\circ}\text{C}$ Maximum (60°C to 100°C)
- Temperature Threshold Set By 1% External Resistor
- Low Quiescent Current: 33 μA Typical
- Open-Drain, Active-Low Output Stage
- Pin-Selectable 2°C or 10°C Hysteresis
- Reset Operation Specified at $V_{\text{CC}} = 0.8\text{ V}$
- Supply Range: 2.7 V to 5.5 V
- Package: 5-Pin SOT-23, 6-Pin DFN6L

2 Applications

- Computers (Laptops and Desktops)
- Servers
- Industrial and Medical Equipment
- Storage Area Networks
- Automotive

3 Description

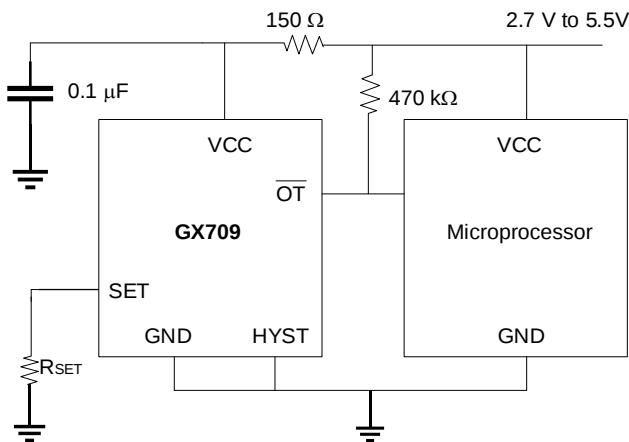
The GX709 is a fully-integrated, resistor-programmable temperature switch with a temperature threshold that is set by just one external resistor within the entire operating range. The TMP709 provides an open-drain, active-low output and has a 2.7V to 5.5V supply-voltage range.

The temperature threshold accuracy is typically $\pm 0.5^{\circ}\text{C}$, with a maximum of $\pm 3^{\circ}\text{C}$ (60°C to 100°C). The quiescent current consumption is typically 33 μA . Hysteresis is pin-selectable to 2°C or 10°C .

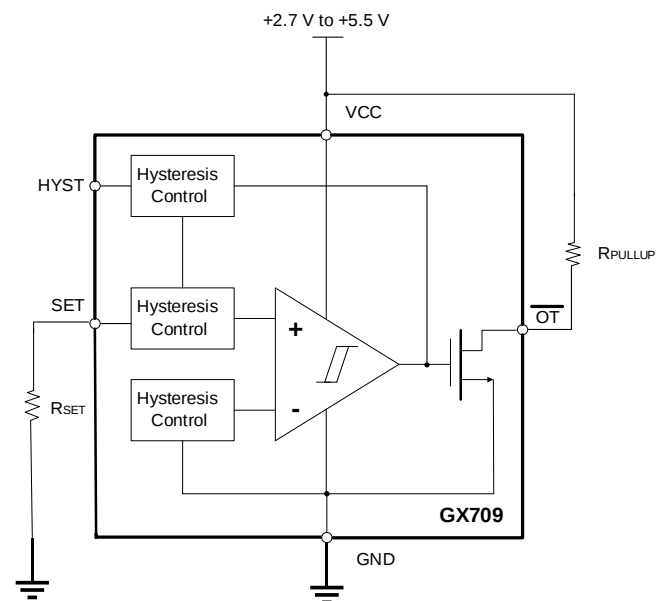
The GX709 is available in a 5-pin, SOT-23 package and 6-pin, DFN6L package

Device Information

PART NUMBER	PACKAGE	BODY SIZE (NOM)
GX709	Die	0.919 mm $\times$ 0.579 mm
GX709S	SOT23-5	2.80 mm $\times$ 1.60 mm
GX709D	DFN6L	1.5 mm $\times$ 1.5 mm



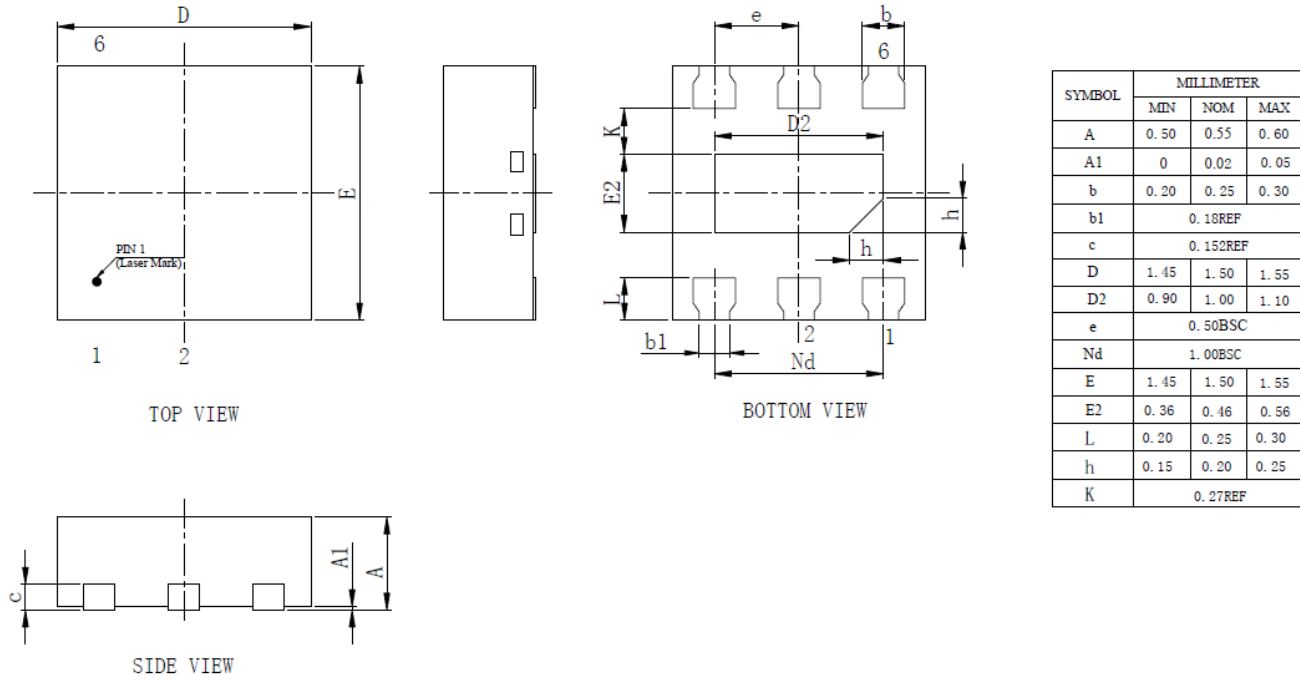
Typical Application



Functional Block Diagram

8 PACKAGING INFORMATION

DFN6L CHIP OUTLINE



9 ORDER INFORMATION

DEVICE	CHIP	PACKAGE TYPE	SPQ	NOTE
GX709-T&R	GX709	Die	3000	Die, TAPE&REEL
GX709S-T&R	GX709	SOT23-5	3000	TAPE&REEL
GX709D-T&R	GX709	DFN6L	4000	TAPE&REEL