

## GX708 Resistor-Programmable Temperature Switch

### 1 Features

- Threshold Accuracy:
  - $\pm 0.5^{\circ}\text{C}$  Typical
  - $\pm 3^{\circ}\text{C}$  Maximum ( $60^{\circ}\text{C}$  to  $100^{\circ}\text{C}$ )
- Temperature Threshold Set By 1% External Resistor
- Low Quiescent Current:  $33\ \mu\text{A}$  Typical
- Open-Drain, Active-Low Output Stage
- Pin-Selectable  $30^{\circ}\text{C}$  or  $10^{\circ}\text{C}$  Hysteresis
- Reset Operation Specified at  $V_{\text{CC}} = 0.8\ \text{V}$
- Supply Range:  $2.7\ \text{V}$  to  $5.5\ \text{V}$
- 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

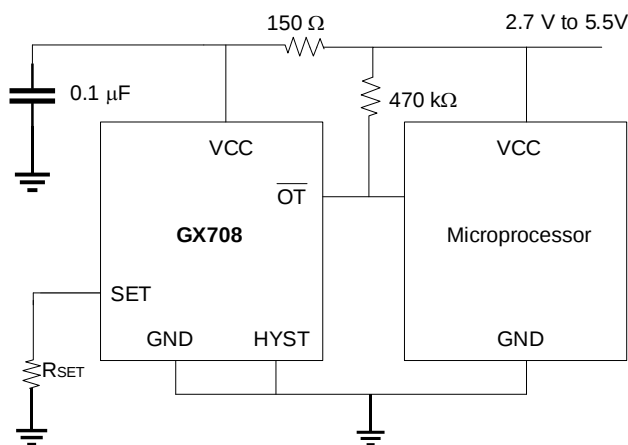
The GX708 is a fully-integrated, resistor-programmable temperature switch with a temperature threshold that is set by just one external resistor within the entire operating range. The TMP709 provides an open-drain, active-low output and has a  $2.7\ \text{V}$  to  $5.5\ \text{V}$  supply-voltage range.

The temperature threshold accuracy is typically  $\pm 0.5^{\circ}\text{C}$ , with a maximum of  $\pm 3^{\circ}\text{C}$  ( $60^{\circ}\text{C}$  to  $100^{\circ}\text{C}$ ). The quiescent current consumption is typically  $33\ \mu\text{A}$ . Hysteresis is pin-selectable to  $30^{\circ}\text{C}$  or  $10^{\circ}\text{C}$ .

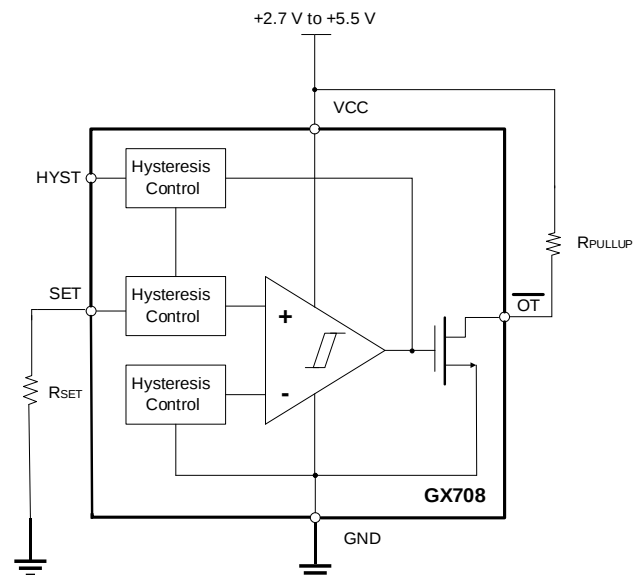
The GX708 is available in a 5-pin, SOT-23 package and 6-pin, DFN6L package

#### Device Information

| PART NUMBER | PACKAGE | BODY SIZE (NOM)                            |
|-------------|---------|--------------------------------------------|
| GX708       | Die     | $0.919\ \text{mm} \times 0.579\ \text{mm}$ |
| GX708S      | SOT23-5 | $2.90\ \text{mm} \times 1.60\ \text{mm}$   |
| GX708D      | DFN6L   | $1.50\ \text{mm} \times 1.50\ \text{mm}$   |



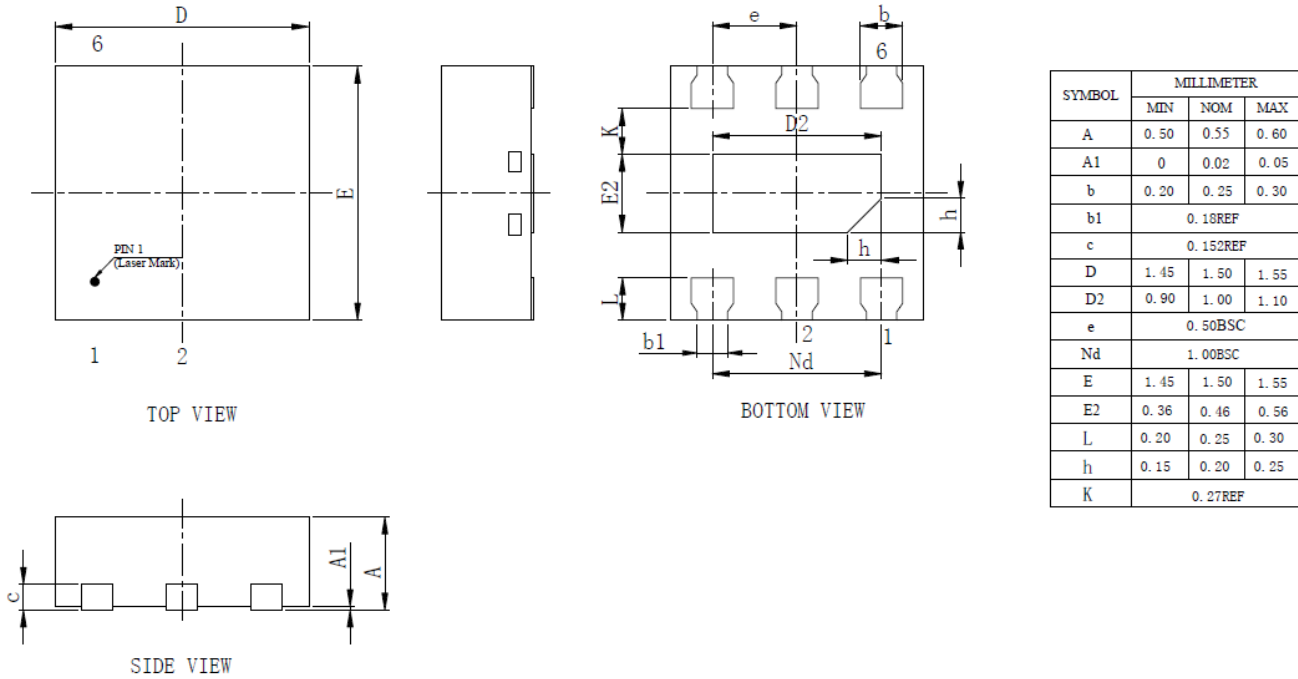
Typical Application



Functional Block Diagram

## 8 PACKAGING INFORMATION

### DFN6L CHIP OUTLINE



## 9 ORDER INFORMATION

| Orderable Device | CHIP  | PACKAGE TYPE | Package Qty | NOTE |
|------------------|-------|--------------|-------------|------|
| GX708-T&R        | GX708 | Die          | 3000        | Die  |
| GX708S-T&R       | GX708 | SOT23-5      | 3000        | REEL |
| GX708D-T&R       | GX708 | DFN6L        | 4000        | REEL |