G678

Micro-Power Reset IC

Features

- **Internally Fixed Threshold level of 2.3V/2.5V**
- **High Accuracy ±1.5%**
- **Low Supply Current 3.3μA at V_{CC}=3V**
- **No External Components Required**
- **N-Channel Open-Drain Output**
- **Available in Two Output Configurations**
  Open-Drain RESET Output (G678H)
  Open-Drain $\overline{\text{RESET}}$ Output (G678L)
- **Guaranteed Reset Valid to V_{CC} = +1V**
- **4-Pin SC-70-4 (SC-82 / SOT-343) Packages**

Applications

- **Computers**
- **Controllers**
- **Intelligent Instruments**
- **Critical μP and μC Power Monitoring**
- **Portable / Battery-Powered Equipment**

General Description

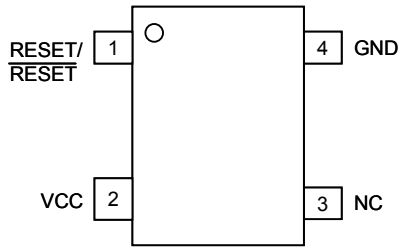
The G678 is a micro-power voltage detector supervising the power supply voltage level for microprocessors (μP) or digital systems. They provide excellent circuit reliability and low cost by eliminating external components. It provides internally fixed threshold level of 2.3V/2.5V. It features low supply current of 3.3μA at V_{CC}=3V.

These circuits perform a single function: they assert a reset signal whenever the V_{CC} supply voltage declines below the preset threshold. Once V_{CC} recovered up-crossing the threshold level, the reset signal will be released.

The G678 is available in 4-Pin SC-70 (SC-82 / SOT-343) Package.

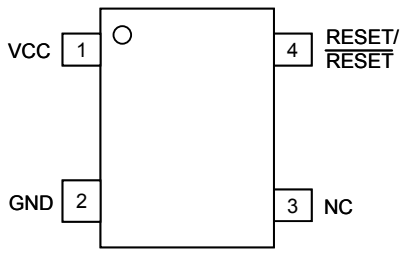
Pin Configuration

G678TV1



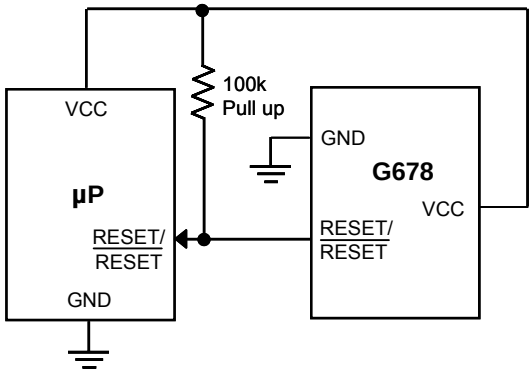
SC-70-4
(SC-82 / SOT-343)

G678TV2



SC-70-4
(SC-82 / SOT-343)

Typical Application Circuit



ICC may increased at high T_A, Therefore, can not connect Resistors to VCC to prevent Icc abnormal behavior at high T_A.