

4-Pin μ P Voltage Monitors with Manual Reset Input

Features

- Precision Monitoring of +3V, +3.3V, and +5V Power-Supply Voltages
- Fully Specified Over Temperature
- Push-Pull Active-low $\overline{\text{RESET}}$ Output
- 220ms Min Power-On Reset Pulse Width
- 10 μ A Supply Current
- Guaranteed Reset Valid to $V_{CC} = +1V$
- Power Supply Transient Immunity
- No External Components
- Manual Reset Input
- SOT-143 Package
- 2% Threshold Accuracy

Applications

- Computers
- Controllers
- Intelligent Instruments
- Critical μ P and μ C Power Monitoring
- Portable / Battery-Powered Equipment
- Automotive

General Description

The G632 are microprocessor (μ P) supervisory circuits used to monitor the power supplies in μ P and digital systems. They provide excellent circuit reliability and low cost by eliminating external components and adjustments when used with +5V, +3.3V, +3.0V- powered circuits. The G632 also provides a debounced manual reset input.

These circuits perform a single function: they assert a reset signal whenever the V_{CC} supply voltage declines below a preset threshold, keeping it asserted for at least 220ms after V_{CC} has risen above the reset threshold. Reset thresholds suitable for operation with a variety of supply voltages are available.

The G632 have a push-pull and active-low $\overline{\text{RESET}}$ output. The reset comparator is designed to ignore fast transients on V_{CC} , and the outputs are guaranteed to be in the correct logic state for V_{CC} down to 1V.

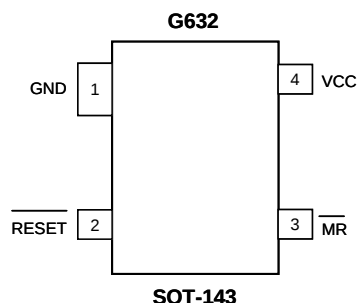
Low supply current makes the G632 ideal for use in portable equipment. The G632 are available in a SOT-143 packages.

Ordering Information

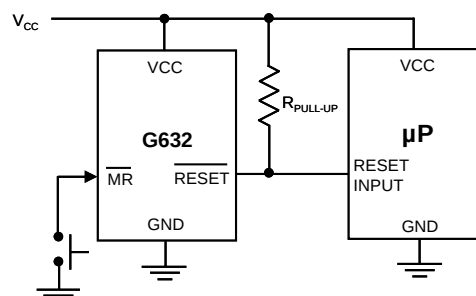
ORDER NUMBER	MARKING	RESET THRESHOLD(V)	TEMP. RANGE	OUTPUT TYPE	PACKAGE (Green)
G632L293TC1U	632Ax	2.93	-40°C ~ +105°C	Push-Pull	SOT-143

Note: TC: SOT-143
 1: Bonding Code
 U: Tape & Reel

Pin Configuration



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 .