



Description

The SE809 is a cost-effective system supervisor Integrated Circuit (IC) designed to monitor V_{CC} in digital and mixed signal systems and provide a warning signal when the system power supply is out of working range, and a reset signal to the host processor when necessary. No external components are required.

The reset output is driven active within 20 μ sec of V_{CC} falling through the reset voltage threshold. Reset is maintained active for a minimum of 150msec after V_{CC} rises above the reset threshold. The SE809 has an active-low $\overline{\text{RESET}}$ output. The output of the SE809 is guaranteed valid down to $V_{CC}=1V$.

The SE809 is optimized to reject fast transient glitches on the V_{CC} line. Low supply current of 18 μ A ($V_{CC}=3.3V$) makes these devices suitable for battery powered applications. The output voltages range from 1.7V to 4.5V in 100mV increments. Standard voltage versions are 2.63, 2.93, 3.08, 4.0, 4.38, and 4.63V.

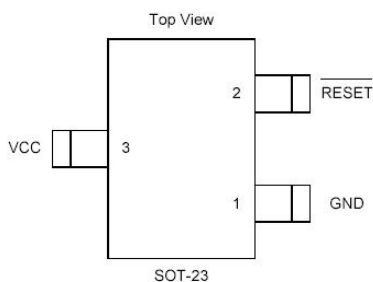
Features

- Precision V_{CC} Monitor for 2.8V, 3.0V, 3.3V, and 5.0V Supplies
- 150msec Guaranteed Minimum $\overline{\text{RESET}}$ Output Duration
- $\overline{\text{RESET}}$ Output Guaranteed to $V_{CC}=1.0V$
- Low 7 μ A Supply Current
- V_{CC} Transient Immunity
- No External Components
- Small SOT-23 Package and TO-92 Package
- Wide Operating Temperature: 0°C to 85°C

Application

- Computers
- Embedded systems
- Battery powered equipment
- Critical μ P power supply monitoring

Pin Configuration



Application Diagram

