

Microprocessor Reset IC

Features

- Precision Monitoring Voltage of +2.2V and +3.7V
- Fully Specified Over Temperature
- Available in Three Output Configurations
 - Push-Pull $\overline{\text{RESET}}$ Output (G656L)
 - Push-Pull RESET Output (G656H)
 - Open-Drain $\overline{\text{RESET}}$ Output (G657L)
- Reset Deassert Time Smaller than 100 μs when V_{CC} Higher than Monitor Voltages (CD Pin Floating)
- Externally Programmable Time Delay Generator
- 27 μA Supply Current at $V_{\text{CC}}=3.3\text{V}$
- Guaranteed Reset Valid to $V_{\text{CC}} = 0.8\text{V}$
- TSOT-23-5 Packages
- 2% Threshold Accuracy

Applications

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

General Description

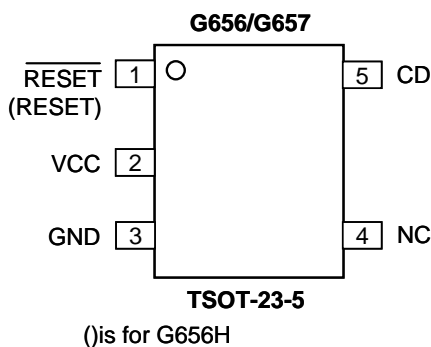
The G656/G657 are microprocessor (μP) supervisory circuits used to monitor the power supplies in μP and digital systems. They provide excellent circuit reliability and low cost.

These circuits perform a single function: they assert a reset signal whenever the V_{CC} supply voltage declines below a preset threshold, with hysteresis keeping it asserted for time delay determined by externally programmable time delay generator after V_{CC} has risen above the reset threshold.

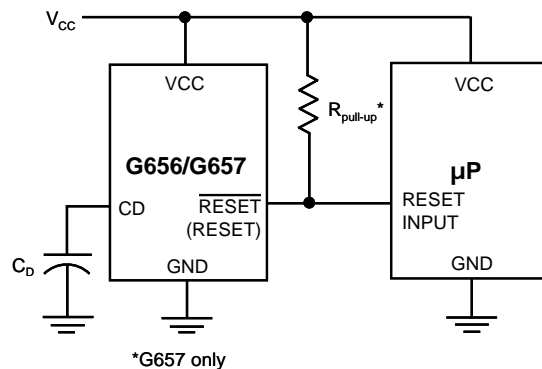
The G657L has an open-drain output stage, while the G656 have push-pull outputs. The G657L's open-drain $\overline{\text{RESET}}$ output requires a pull-up resistor that can be connected to a voltage higher than V_{CC} . The G656L has an active-low $\overline{\text{RESET}}$ output, while the G656H has an active-high RESET output. The outputs are guaranteed to be in the correct logic state for V_{CC} down to 0.8V.

The G656/G657 are available in 5-pin TSOT-23-5 package.

Pin Configuration



Typical Application Circuit



ICC may increased at high T_A , Therefore, can not connect Resistors to VCC to prevent I_{CC} abnormal behavior at high T_A .