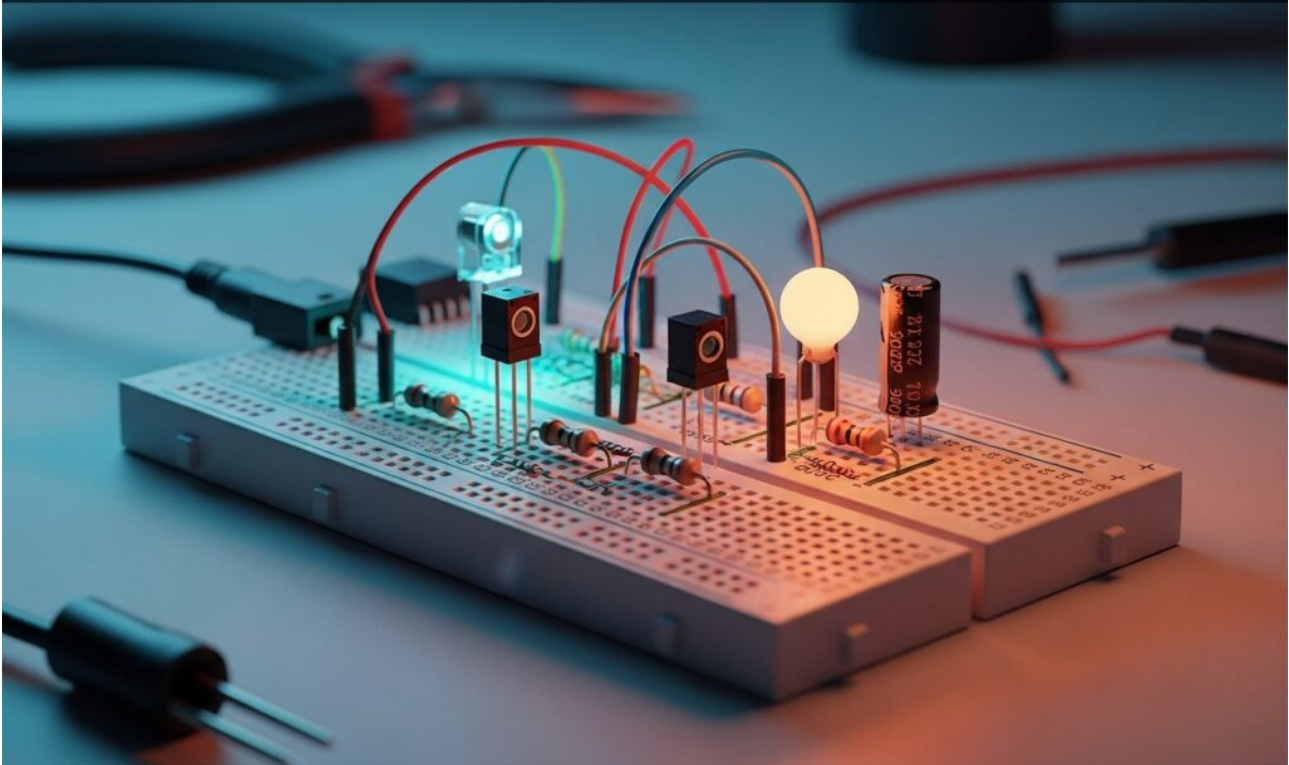


Practical case: Photodiode vs photoresistor comparison

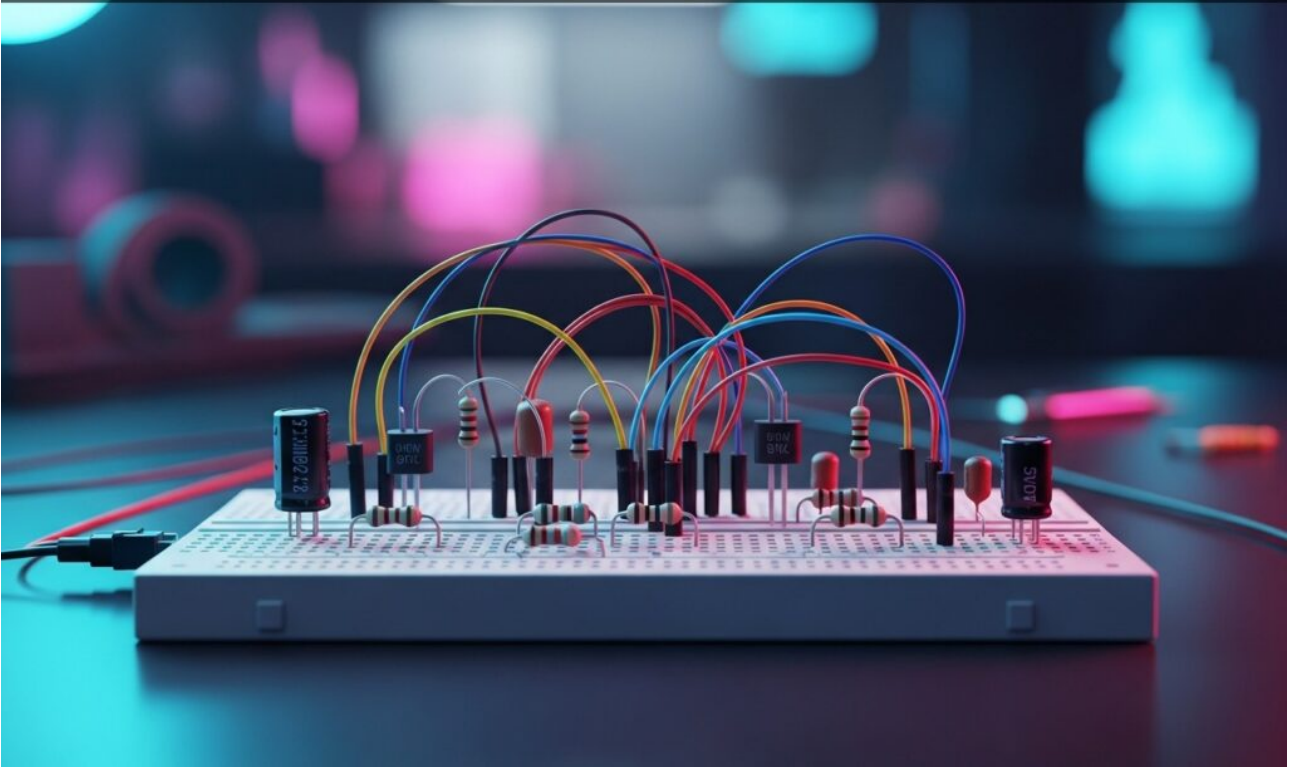
Photodiode vs photoresistor comparison



Master Analog Electronics by comparing sensor speeds. Build a circuit using a Photodiode and LDR to observe sharp square waves versus slow voltage curves.

Practical case: Simple twilight switch

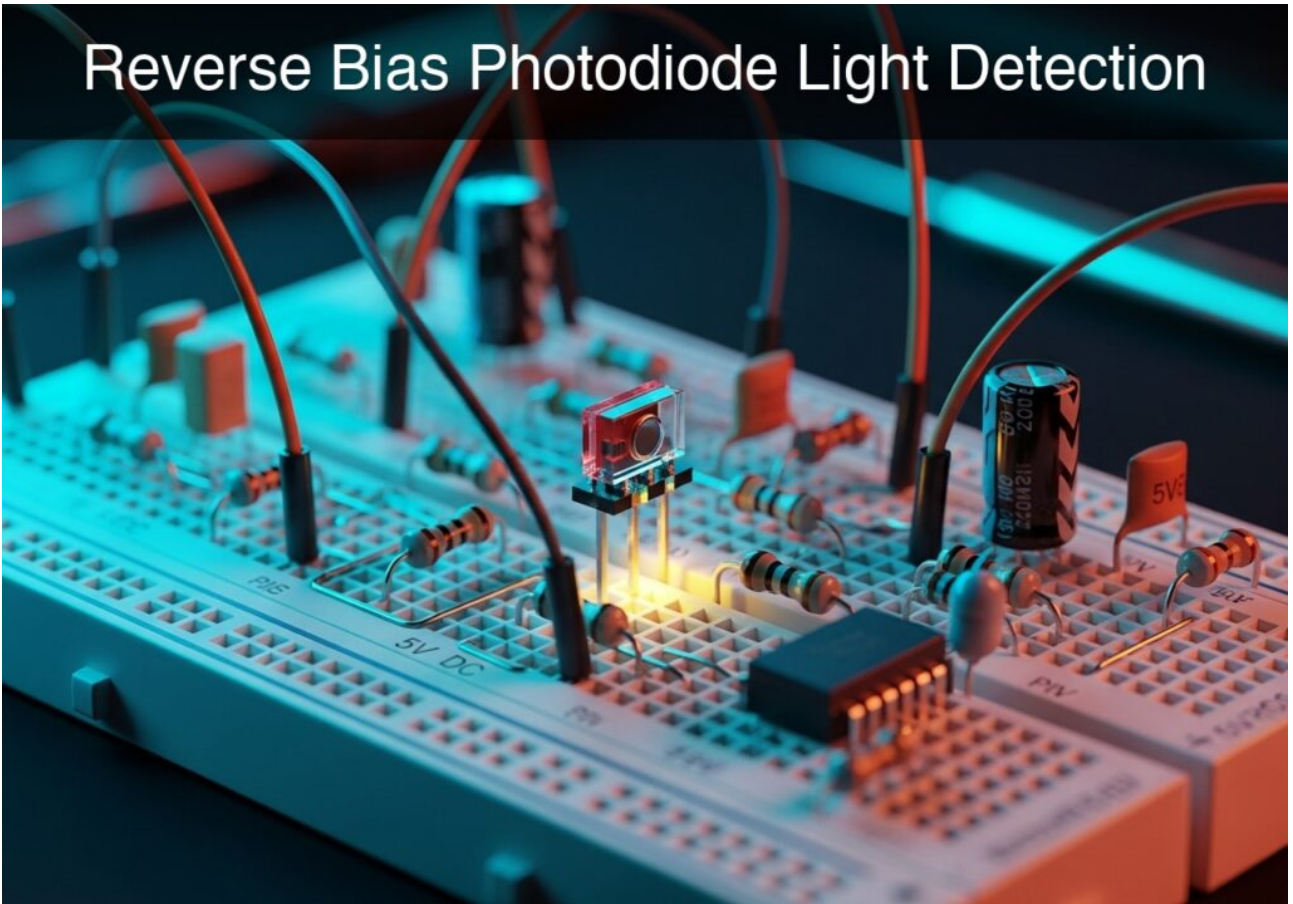
Simple twilight switch



Learn Analog Electronics by building a dark sensor circuit. Use a Photodiode to switch an LED on when light drops, mastering transistor switching logic.

Practical case: Reverse Bias Photodiode Light Detection

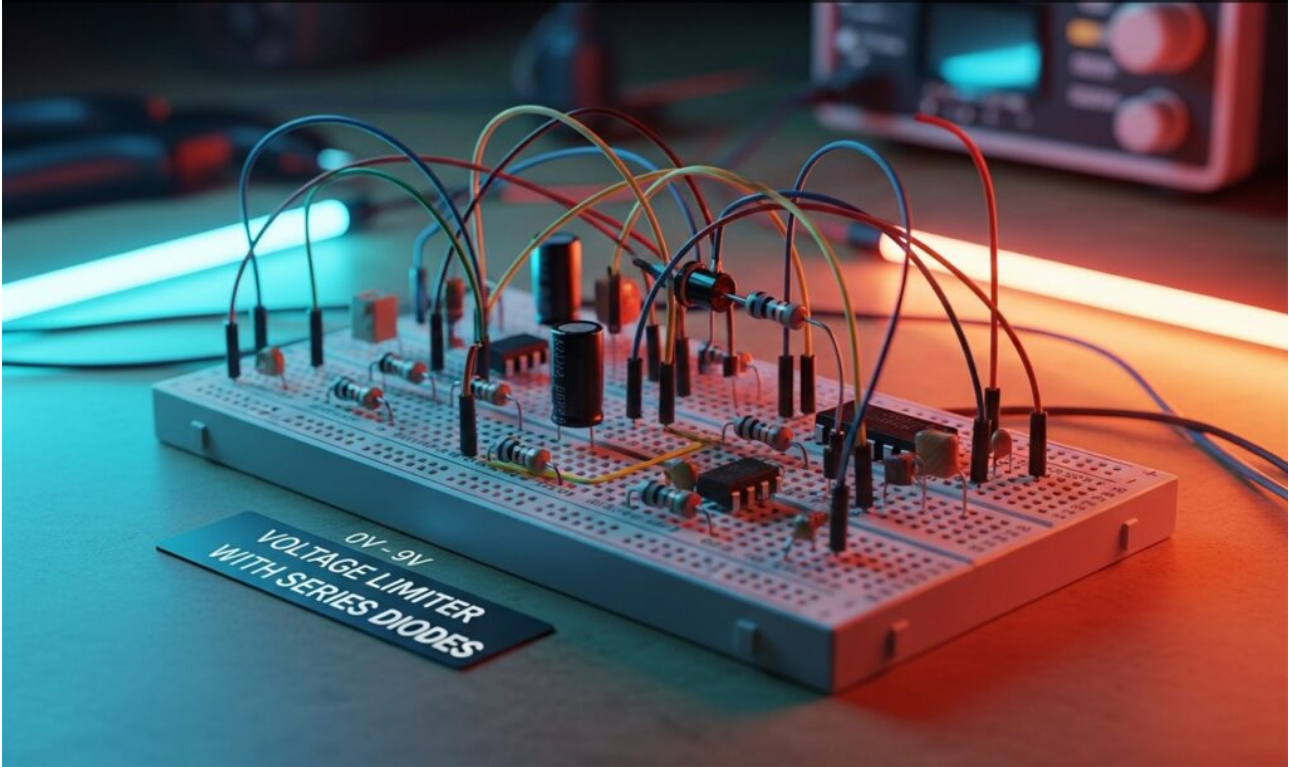
Reverse Bias Photodiode Light Detection



Master Analog Electronics by building a light sensor circuit using a reverse-biased Photodiode. Measure linear voltage changes based on light intensity.

Practical case: Voltage limiter with series diodes

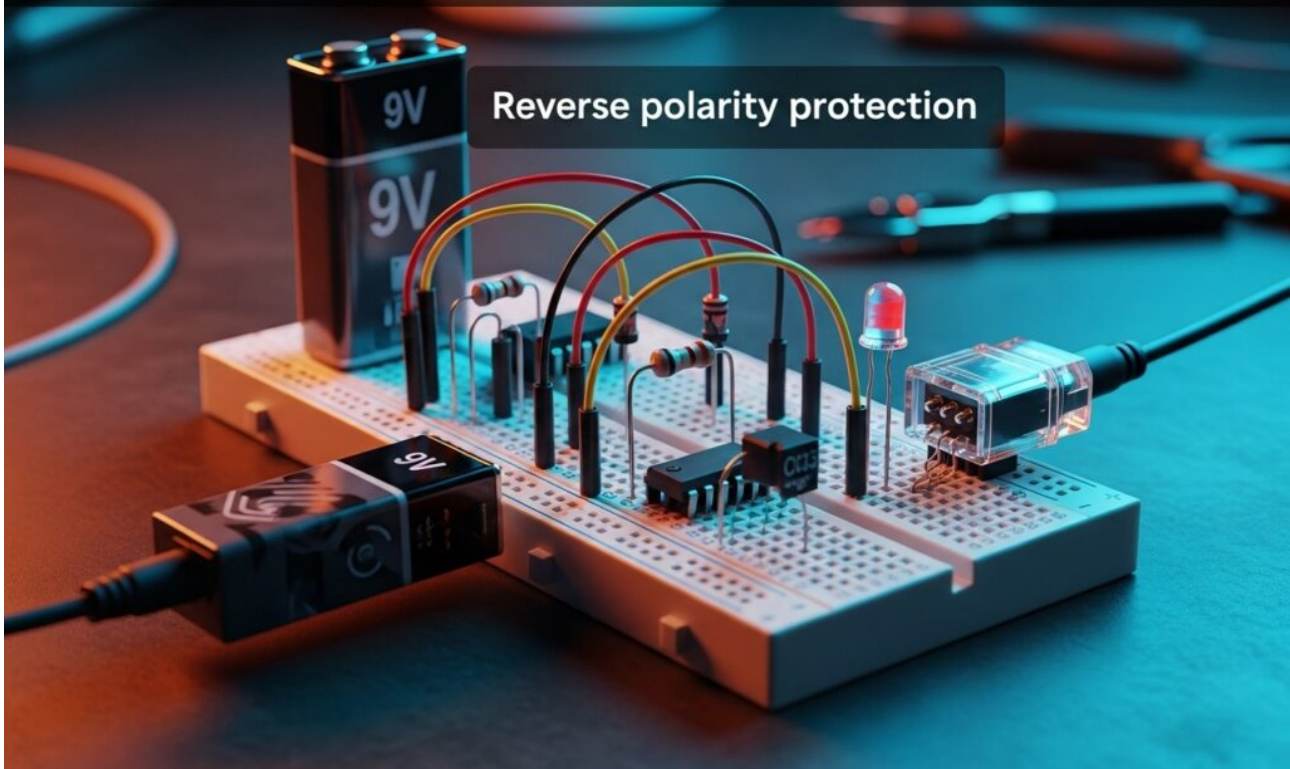
Voltage limiter with series diodes



Master Analog Electronics by building a voltage limiter with a simple Diode circuit. Protect inputs and clamp signals to 2.1V for safe, stable output results.

Practical case: Reverse polarity protection

Reverse polarity protection



Learn Analog Electronics by building a Diode protection circuit for a DC motor. Prevent damage from reverse polarity and measure the 0.7V voltage drop.

Practical case: Simple half-wave rectification

