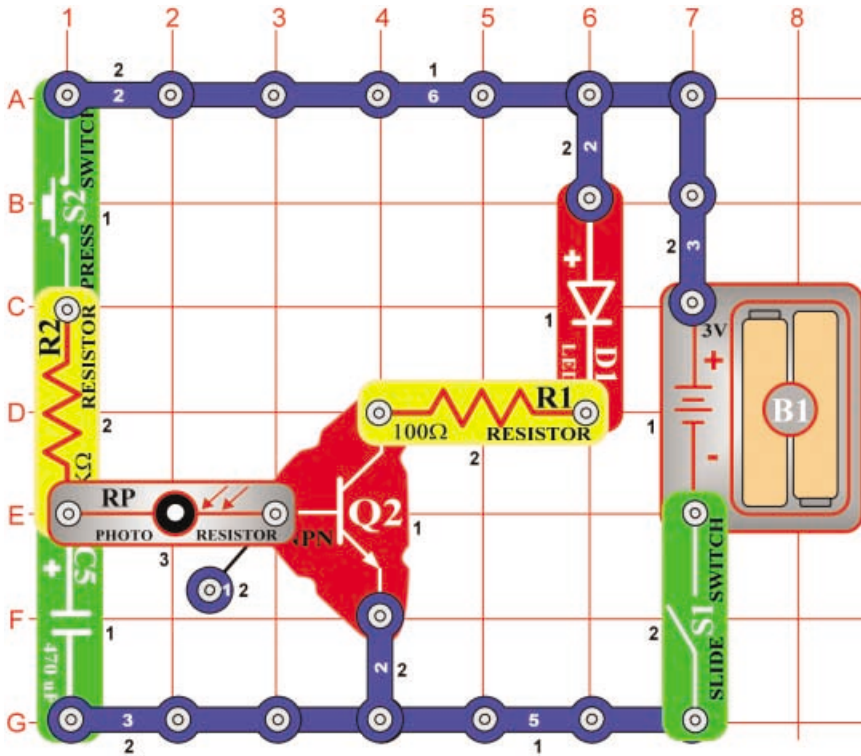


Project #A24 Capacitor Photo Control

OBJECTIVE: To learn about a device that is used to delay actions in electronics.



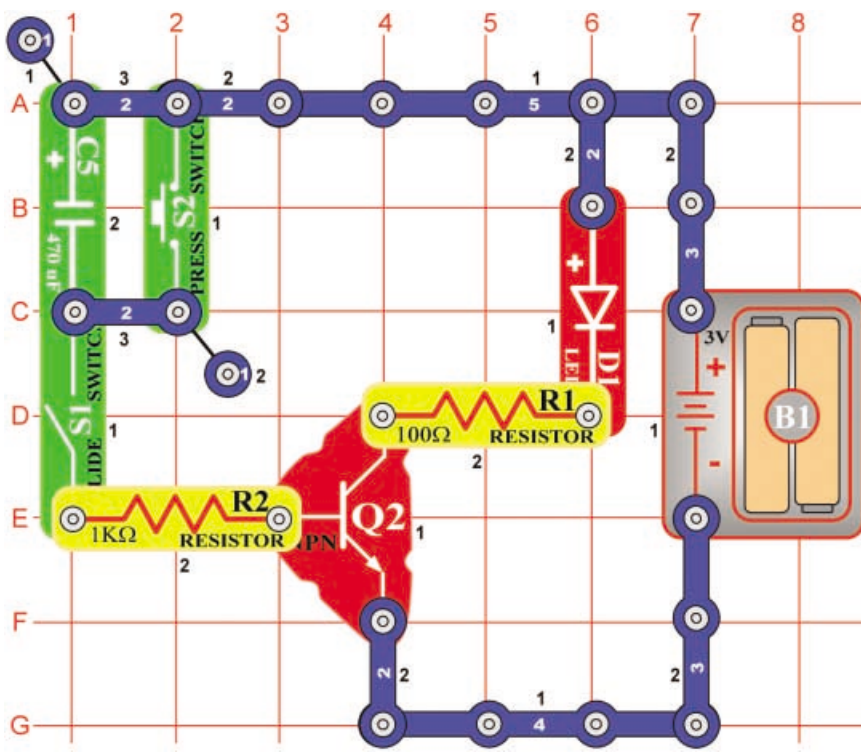
Turn on the slide switch (S1) and push the press switch (S2). If there is light on the photoresistor (RP) then the LED (D1) will stay on for a long time after you release the press switch.

The energy stored in the 470µF capacitor (C5) keeps the controlling current to the NPN transistor (Q2) on even though the press switch was turned off. If it is dark, the high resistance of the photoresistor shuts off the current to the transistor.

Requires SC-300 or larger parts set.

Project #A25 Capacitor Control

OBJECTIVE: To learn about a device that is used to delay actions in electronics.



Build the circuit and turn on the slide switch (S1). The LED is bright but slowly gets dark as the 470µF capacitor (C5) charges up.

The LED will stay dark until you push the press switch (S2), which discharges the capacitor.

Requires SC-300 or larger parts set.