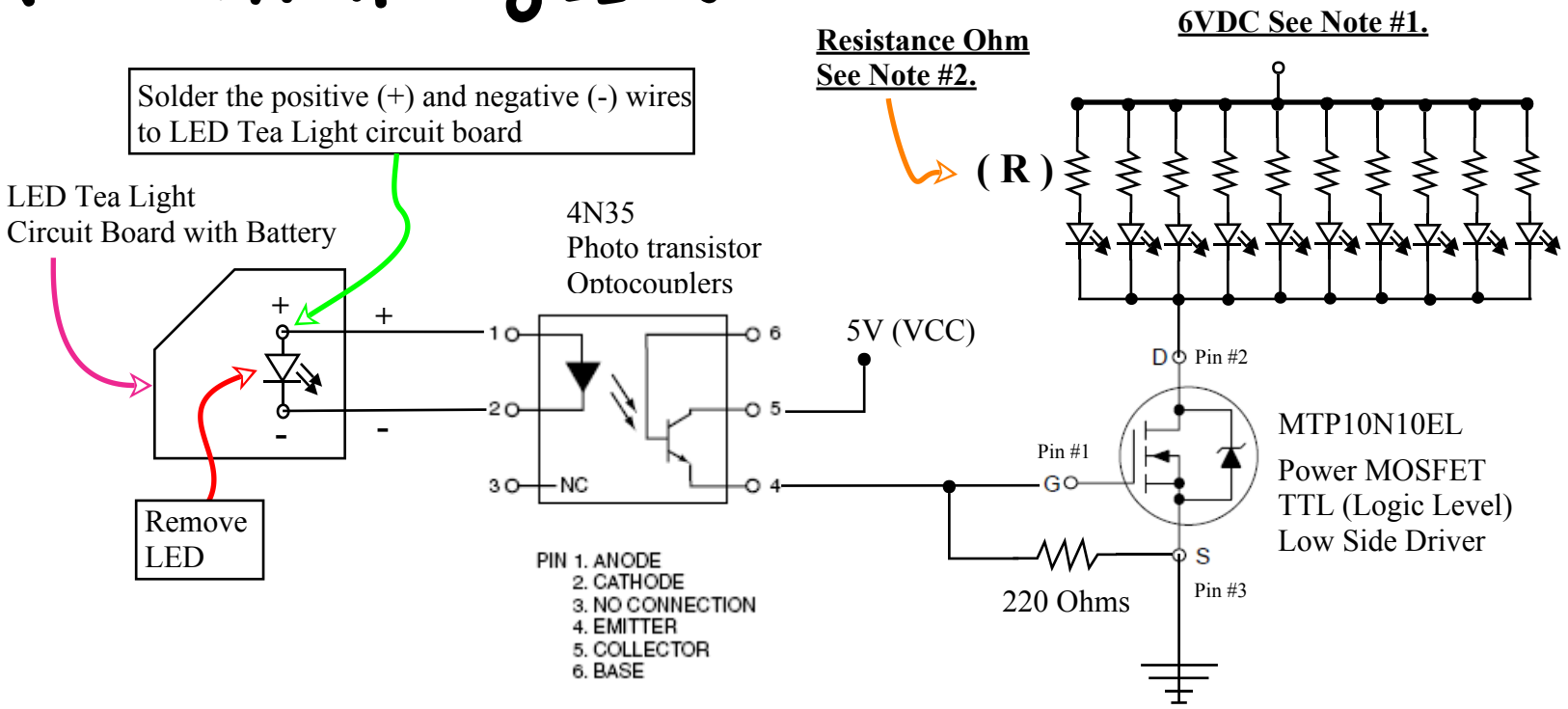
Random Flickering LED Circuit



LED Tea Light:
Remove the LED from the PCB and solder in a wires one for positive and the other wire for negative.

Note #1: The power MOSFET MTP10N10EL has a maximum voltage of 100VDC and 10 Amps of current to drive the LED (s) for your application.
For this application I'm using 6VDC to power the 10 snowflake LED's each LED has a 100 ohm resistor.

Note #2: Calculate current through the LED by using the below formula.

$$\text{LED Resistance (R)} = \frac{\text{Supply Voltage (VS)} - \text{LED Voltage Drop (VF) Forward Voltage}}{\text{LED Current (mA)}}$$

Mark McCuller December 2010