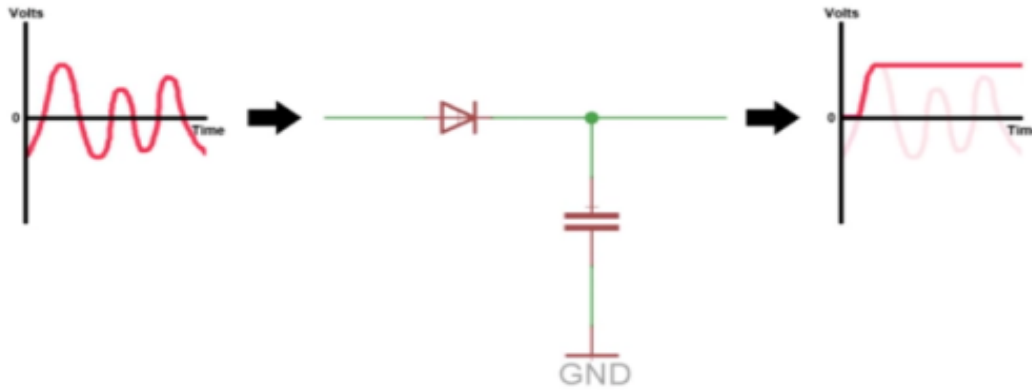


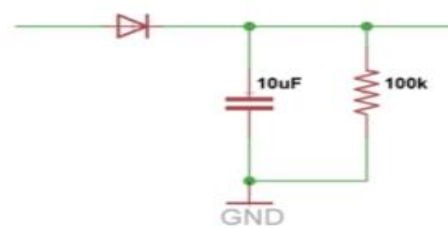
Peak Detector Circuit Theory of Operation

Input signal

The diode charges the capacitor. Since it cannot discharge, it stays charged at PEAK voltage less the Voltage drop across diode. Use a 1N4007



Sample Circuit



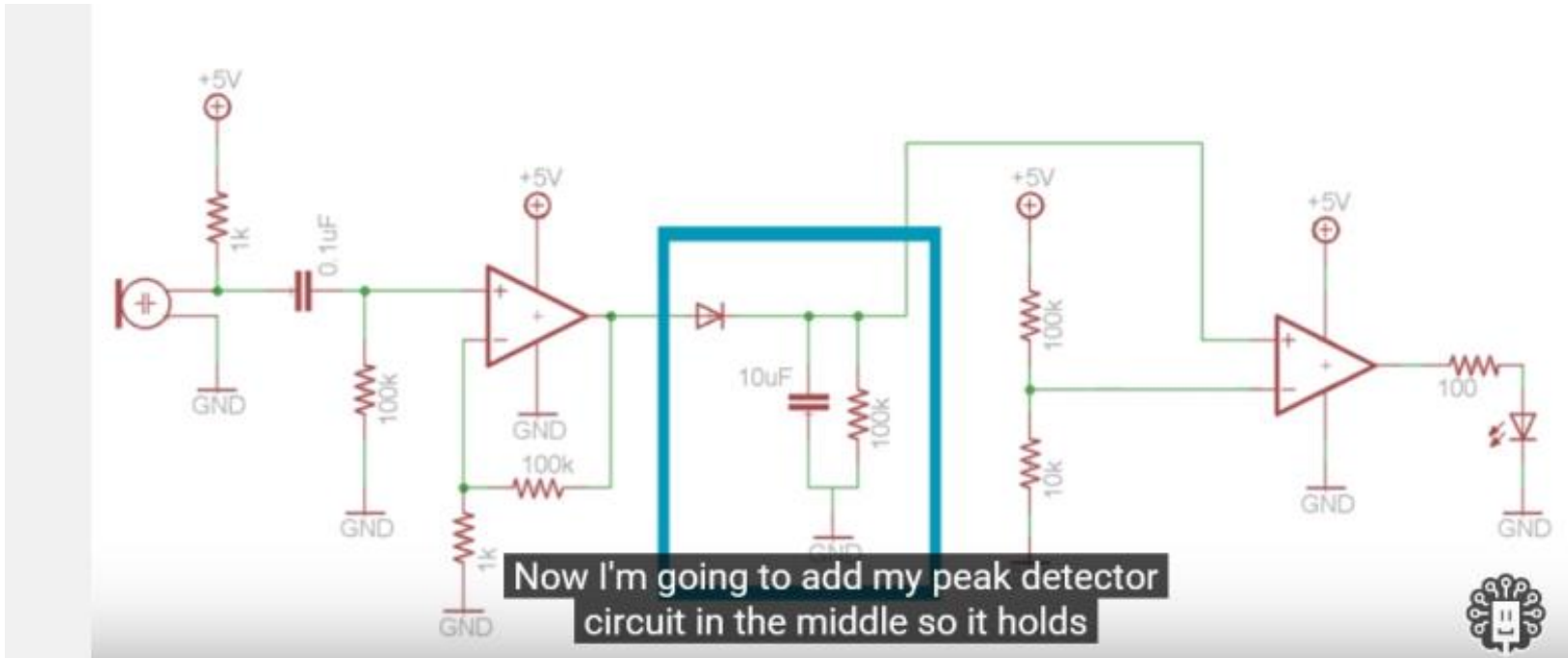
Time to fully discharge capacitor $\approx 5 \times R \times C$
in seconds in ohms in farads

$$5 \times 100,000 \times 10 \times 10^{-6} = 5 \text{ seconds}$$

With a 1kHz triangle wave, the output of the capacitor (yellow) is holding steady at the peak voltage.



Now let's add this to the Clapper circuit so the circuit will remain on for a specific amount of time....



To change the ON time, just change the RC values.