



# 555 Timer Astable – Buzzer

- This circuit uses a **CAPACITOR**.  
This is like an electronic bucket.  
It's repeatedly filled and emptied.
- The two **RESISTORS** control how quickly the **CAPACITOR** fills and empties.
- The light dependent resistor (LDR) makes it possible to play a tune by shading the light.
- The 555 Timer fills the **CAPACITOR** until it's 2/3 full.  
Then it empties it until it's 1/3 full.  
This repeats for ever.
- The 555 Timer also drives the **SOUNDER**.
- The **DIODE** passes current in one direction only.  
If you wire up the power the wrong way round, this protects the circuit.