Astable and Monostable Multivibrator and Applications of Astable Multivibrator

1. Astable Multivibrator:

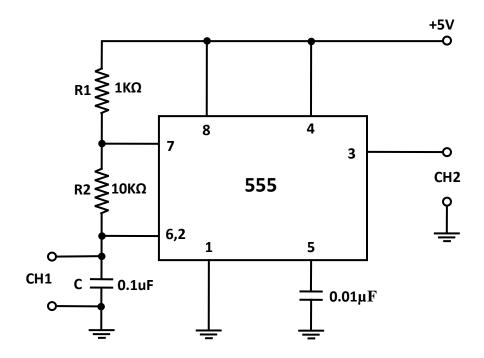


Fig 8.1: Astable Multivibrator Circuit

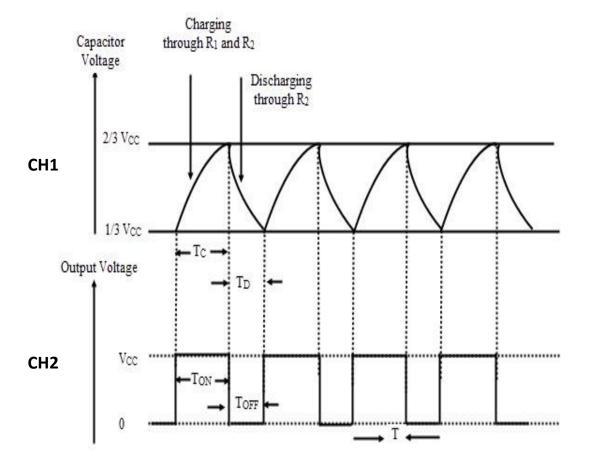


Fig 8.2: Wave forms for Astable multivibrator.

$$T_{ON} = 0.69(R_1 + R_2)C$$

$$T_{OFF} = 0.69(R_2)C$$

2. Monostable Multivibrator:

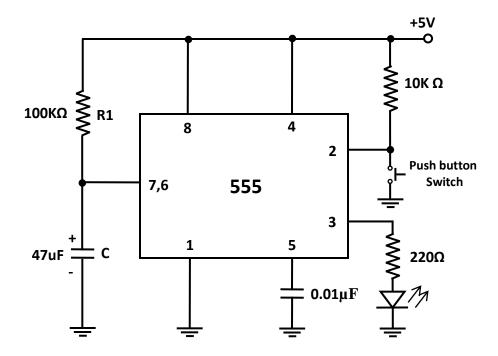


Fig 8.3: Monostable Multivibrator Circuit to glow LED at one shot.

LED ON TIME =
$$T_{ON}$$
 = 1.1(R_1)C

3. Screamer:

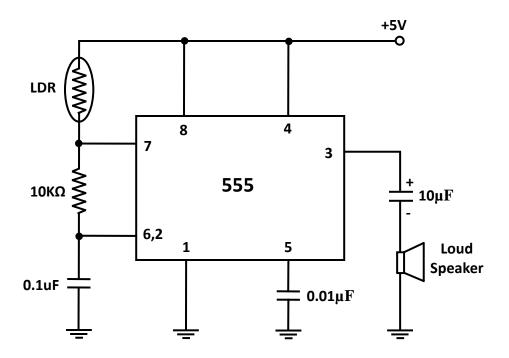


Fig 8.4: Screamer Circuit

4. Rail Road Flashing Lights:

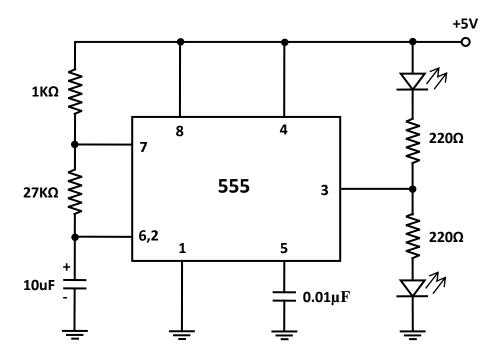


Fig 8.5: Rail Road Flasher Circuit