

Rain detector using BC 547 Transistor

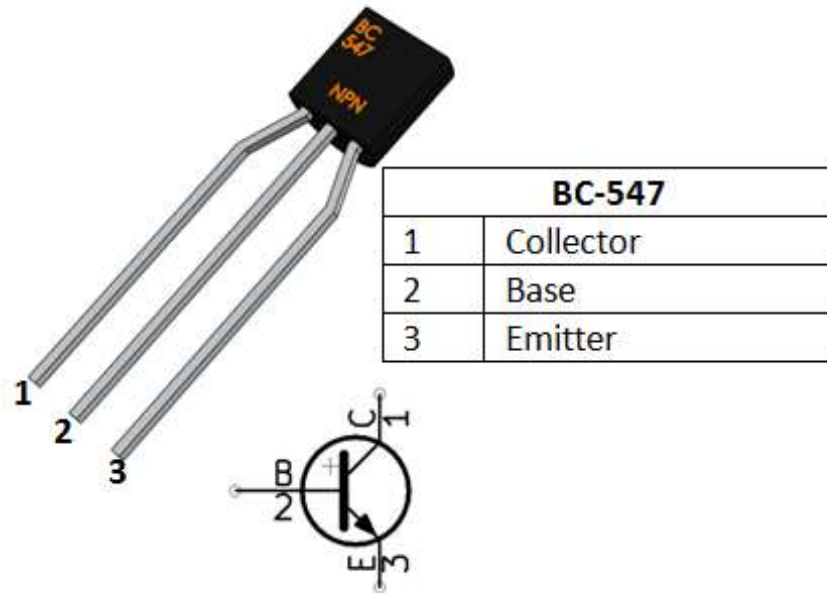


About project

In this project basically, rain detector circuit detects rain . Main components in this circuit are BC547 & BC557 transistor. Circuit completes when rain make the sensing wires get wet. When ever the rain comes, **buzzer** will create alarm.

BC547

BC547 is a NPN transistor hence the collector and emitter will be left open (Reverse biased) when the base pin is held at ground and will be closed (Forward biased) when a signal is provided to base pin.



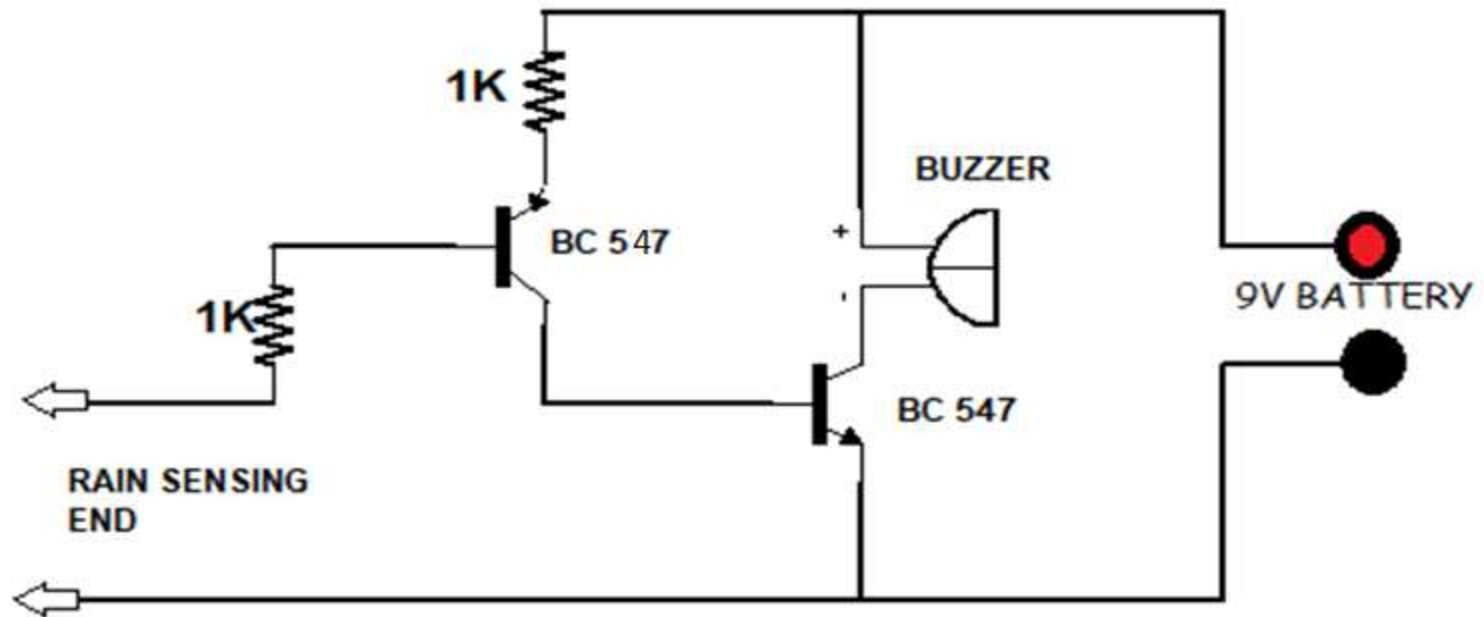
Working of project

Circuit completes when rain make the sensing wires get wet. If there is no rain there will be no conduction between the wires in the sensor. So the circuit will not be active. If the sensor wires start conduction due to rain droplets, circuit gets activated. As a result transistor BC557 becomes ON and will drive transistor BC 547 to ON. The buzzer connected to collector of the BC 547 will be activated.

Components Required

- Two BC 547 Transistor
- Two 1k Resistors
- One Buzzer(One LED can also connected across Buzzer)
- Breadboard
- +9 Volt Battery
- Battery Cap
- Connecting Wires

Connection Diagram



Project Link : <https://youtu.be/SesxYuAauwE>