Project 2:- over voltage AC tripper

## Component Required:-

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| --- | --- | --- |
| Serial number | Component | quantity |
| 1. | PNP Transistor(AC128) | 1 |
| 2. | Diode(IN4007) | 5 |
| 3. | Electrolytic Capacitor(1000MF,25V) | 1 |
| 4. | Electrolytic Capacitor(147MF,63V) | 1 |
| 5. | Resistor(2k2) | 1 |
| 6. | Pre-set (4k7) | 1 |
| 7. | Transformer(0-12v,750mA) | 1 |
| 8. | Relay | 1 |

**Description:-**

This circuit is quite useful where AC voltages fluctuate very much.

It switches of the appliances when ac volt reaches more than 220 volt.

In this circuit first ac is passed through transformer which lowers down its voltage then diode changes that ac in pulsating dc which is then filtered for pure dc.

When AC voltage is 220 Transistor is in cutoff region (OFF STATE)

When voltage increases, negative voltage passes through zener diode and reaches to transistor base makes transistor in saturation region(ON STATE).

Which makes relay in ON state and thus AC get tripped .

