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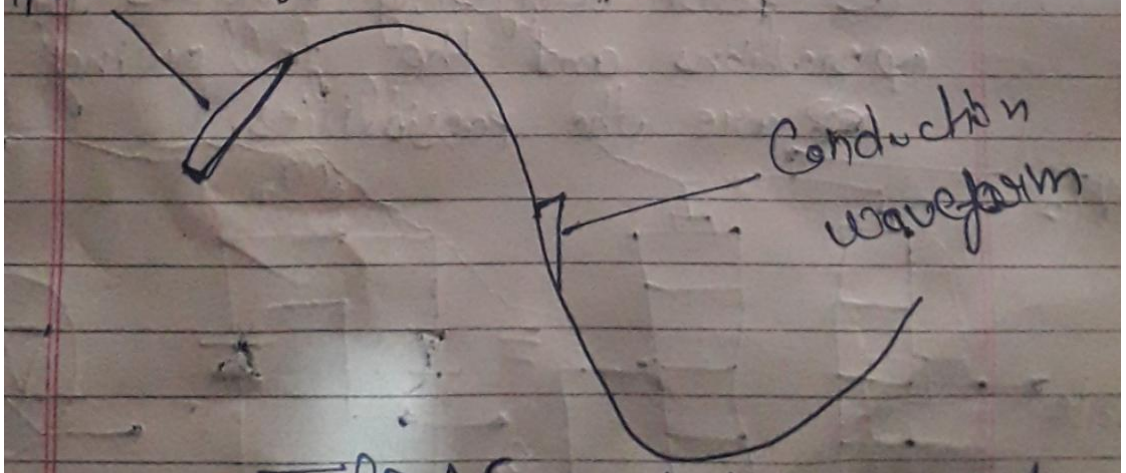
The TRIAC is the three terminal Semiconductor device and used for controlling the Current, from the name of the TRIAC, of words Triode is alternative Current and it is effective developed with the help of the SCR of Thyristor. But the thyristor and able to Conduct the device of one direction and TRIAC is bidirectional. the Triode for Alternative Current are able to swith high voltage and level of current and on both the part of A.C waveforms. This device is used widely widely in

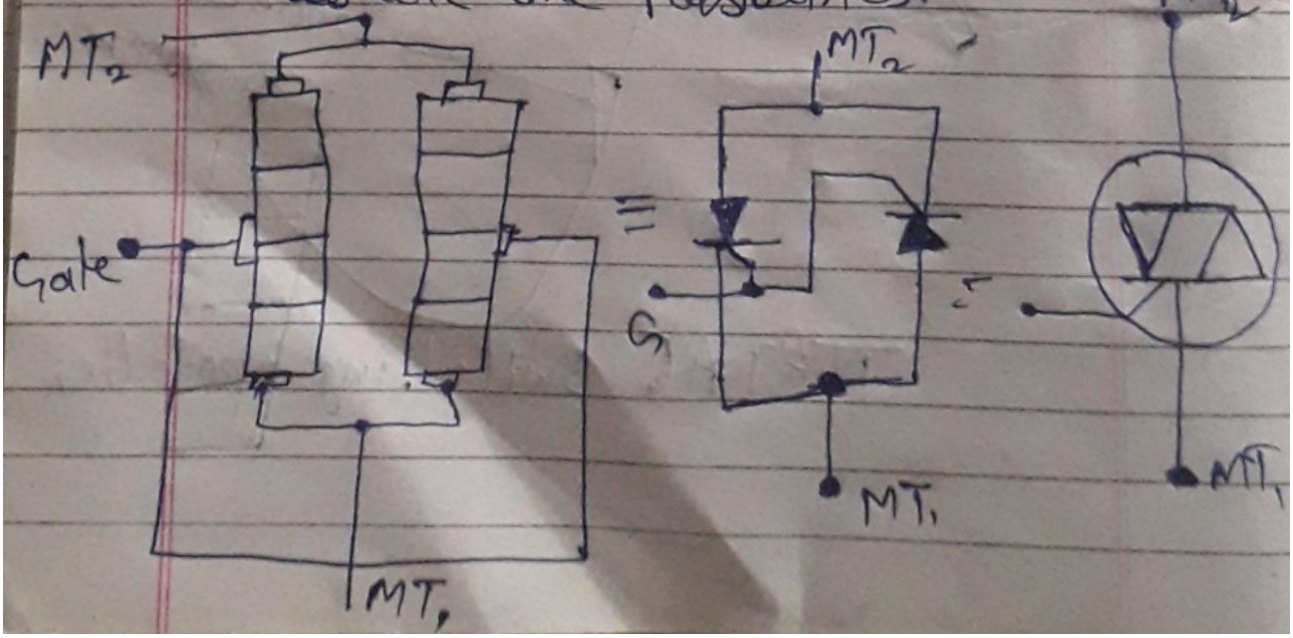


T-RIAC Switching operation

Construction of TRIAC

The TRIAC consist of four layers like PNPN is the positive direction and the negative direction consists of NPNP as we can see in the figure. The three-terminal bidirectional device blocks the current in the OFF state and it will act as an open circuit switch

But for the distinct conventional thyristor, this device can conduct the current in both direction when it is triggered by a single gate pulse. The TRIAC operations as four triggering modes of operations and the following are the possibilities.



VI Characteristics of TRIAC

The following figure show the typical TRIAC characteristics. The Triode for Alternating Current consists of ON and OFF state characteristics which are similar to SCR. Now characteristics are application of both the voltage of positive and negative