

③ Gate Triggering

This is most widely used SCR triggering method. Applying a positive voltage between gate and cathode can turn ON a forward biased thyristor when a positive voltage is applied at the gate terminal. Charge carriers are injected in the inner P-layer there by reducing the depletion

④ ~~Light stand~~

LED:

LED stand for Light-emitting diode is semiconductor light source that emits light when carriers flow i.e. electrons in the semiconductor recombine with electron hole releasing energy in the form of photons. The color of the light i.e. energy of the photons is determined by the energy required of electrons to cross the band gap of the semiconductor.

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(i) Light Triggering

The turning ON process of the SCR is known as triggering. In other words, turning the SCR from Forward-Blocking state to forward-Conduction state is known as triggering. The various methods of SCR triggering are discussed here.

It is recommended to read the Basic, Structure and VI characteristics of Power Thyristor before proceeding further.