

SCR Turnoff (Commutation) Circuits

➤ What is Commutation?

The process of turning off an SCR is called commutation.

It is achieved by

1. Reducing anode current below holding current
2. Make anode negative with respect to cathode

➤ Types of commutation are:

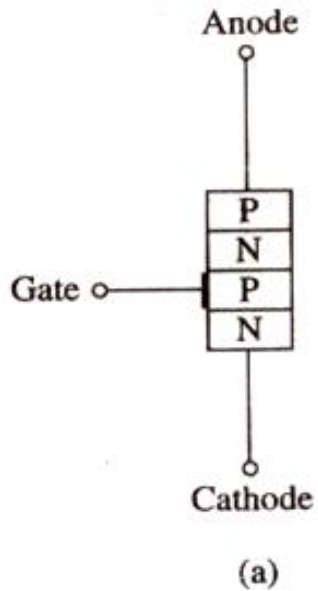
1. Natural or line commutation
2. Forced commutation

Other members of Thyristor Family

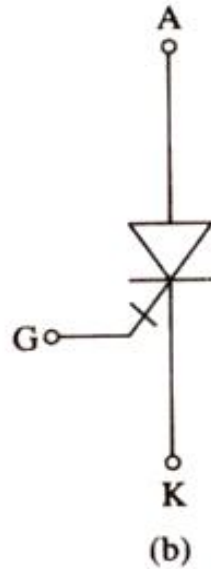
Other Types of Thyristors

1. Gate Turnoff Thyristor (GTO)
2. DIAC
3. TRIAC
4. MOS-Controlled Thyristor (MCT)

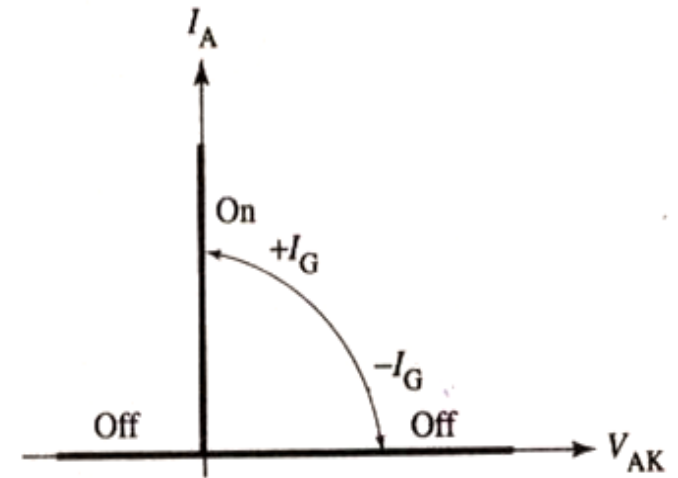
(1) GTO



Structure



Symbol



GTO Ideal VI characteristics