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B.Sc. III Paper - VI 'B'

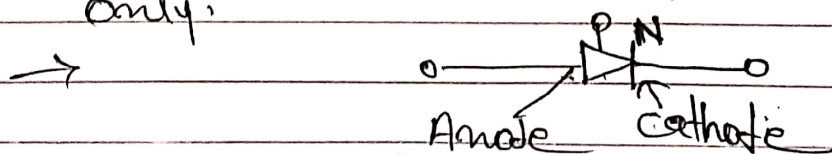
Semiconductor devices →

There are various devices which having wide range of application in electronics. All these devices are based on semiconductor theory. In this chapter we are going to study types of semiconductor diode. The characteristics and working of devices like P-N junction diode, Tunnel diode, Zener diode, LED and photodiode etc.

→ P-N Junction diode → A PN Junction diode is also known as a semiconductor diode. It is formed when a P-type and N-type semiconductor are joined metallurgically.

→ It act as rectifier to convert ac voltage to dc voltage.

→ It allows current flow in one direction only.



This is symbolic PN Junction diode. ~~It is symbolically~~ arrowhead indicates the conventional direction of current flow when the diode is forward biased.

→ The P-side of the diode is positive and called anode.

→ The N side is the cathode and it the negative terminal.