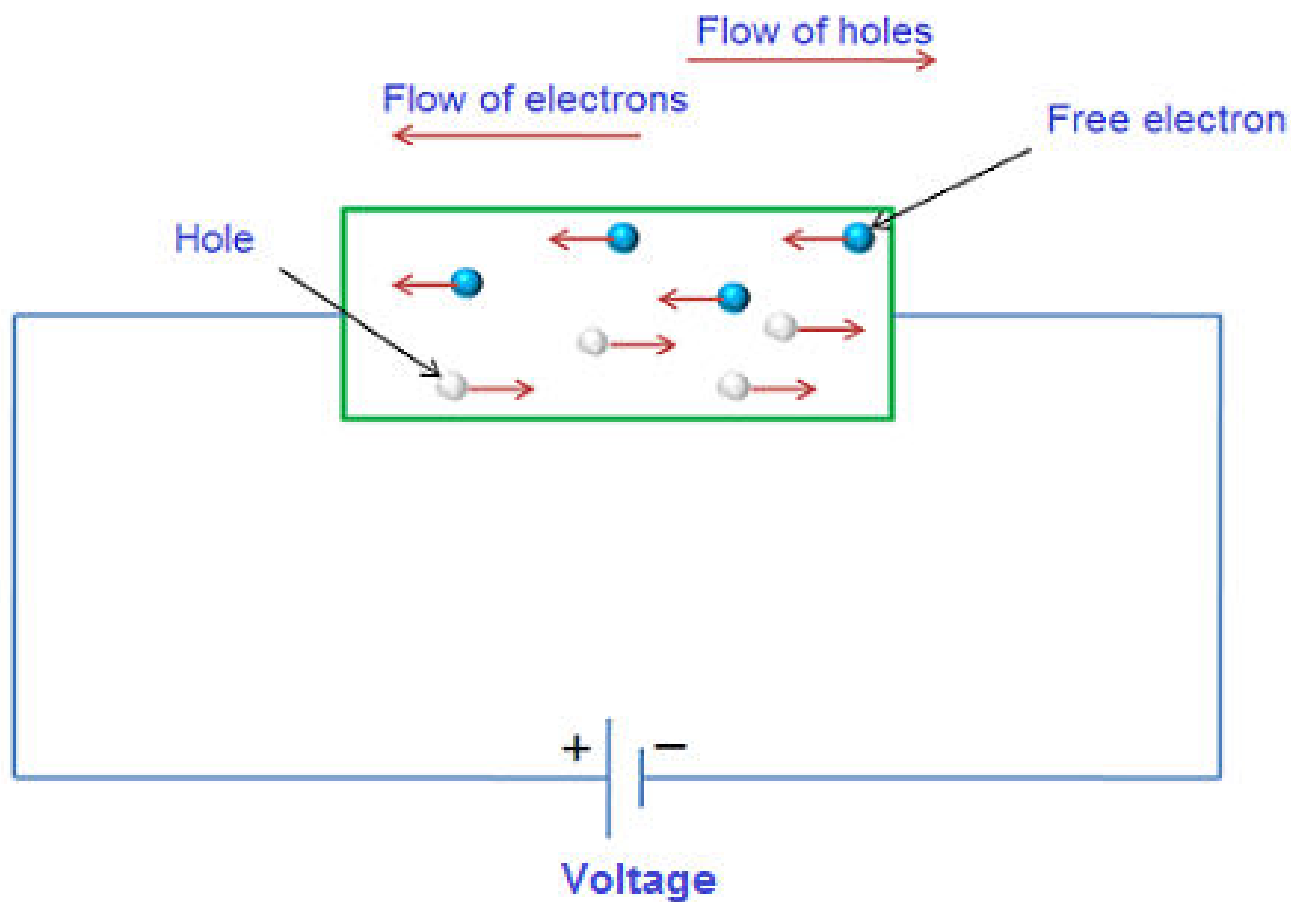


Drift Current in Semiconductor Diode

Elementrix Classes

Drift Current

- ❑ Drift current can be defined as the charge carrier's moves in a semiconductor because of the electric field. There are two kinds of charge carriers in a semiconductor like holes and electrons. Once the voltage is applied to a semiconductor, then electrons move toward the +Ve terminal of a battery whereas the holes travel toward the -Ve terminal of a battery.
- ❑ Here, holes are positively charged carriers whereas the electrons are negatively charged carriers. Therefore, the electrons attract by the +Ve terminal of a battery whereas the holes attract by the -Ve terminal of a battery



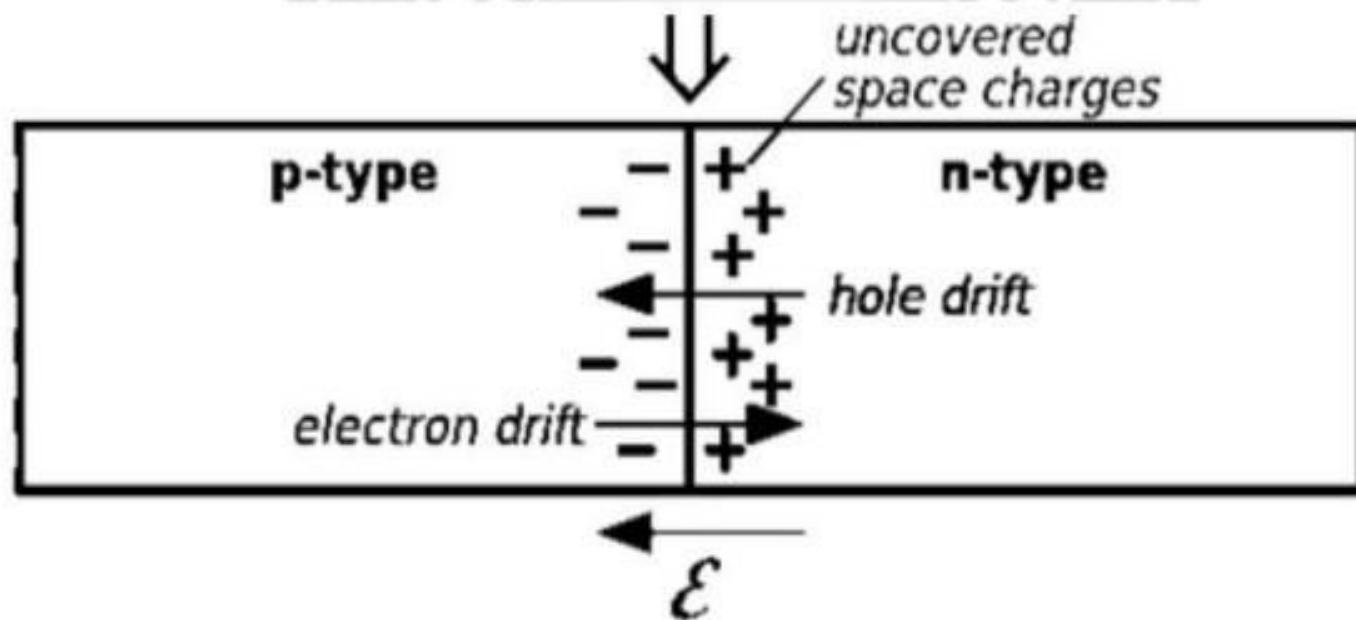


Fig:1.3.1 Drift Current

Drift Current Equation in Semiconductor Diode:

$$I_{drift} = A \times E (q p \mu_p - q n \mu_n)$$

पढ़िए और पढ़ाइये

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