

### ③ IN AN UNBIASED P-N JUNCTION

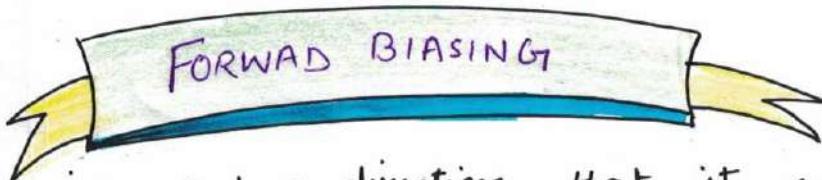
- The majority carrier current and minority carrier current are equal in magnitude and flow in opposite direction, thus there is no net flow of current across the junction.
- The higher the doping level the thinner will be the depletion layer and vice versa.
- In 1919, William Henry Eccles coined the term 'diode' from the Greek roots 'dia' means 'through' and 'ode' means path.

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Connecting a P-N Junction to an external DC Voltage is called Biasing.

The biasing is classified into two types namely



When external DC voltage applied to the junction is in such a direction that it cancels the potential barrier thus permitting current flow, it is called forward Biasing.