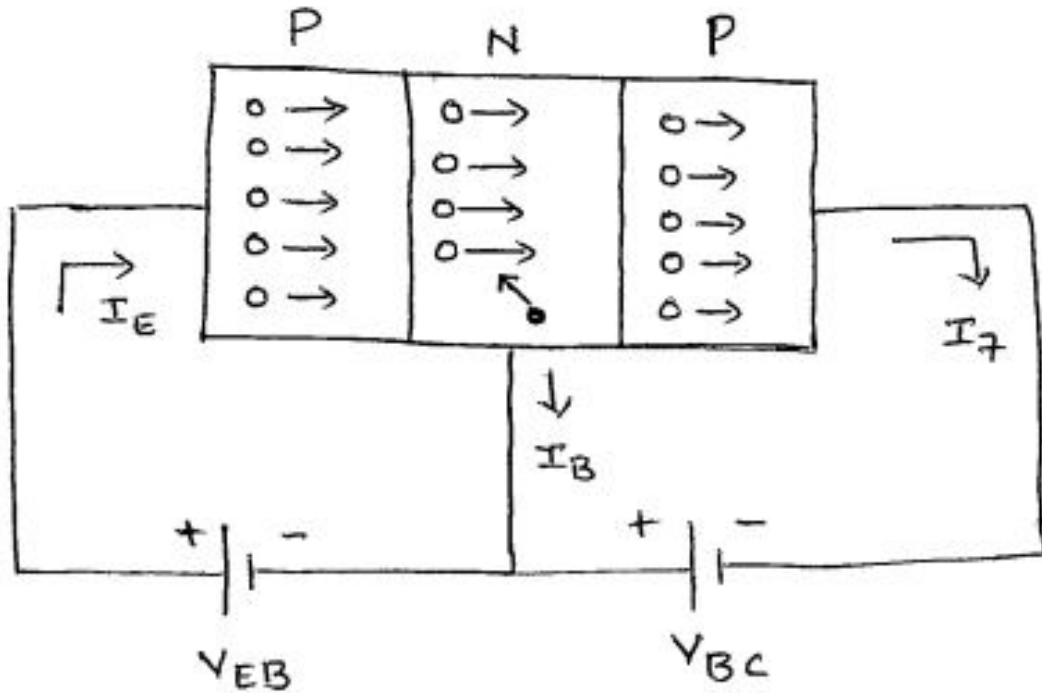


Working of PNP Transistor

Elementrix Classes

Working of PNP Transistor



- ❑ As Shown in figure, the forward bias is applied to the emitter base junction of PNP transistor causes a lot of holes from the emitter region to cross over to the base region.
- ❑ As the base is lightly doped with n-type impurity, the number of electrons in the base region are very small and hence the number of holes that combined with electrons in the n-type base region is also very small.
- ❑ Hence a few holes combined with electrons to constitute a base current I_B .

- ❑ The remaining holes (more than 95%) crossover into the collector region constitute a collector current (I_C).
- ❑ Thus the collector and base current when summed up gives the emitter current, i.e.

$$I_E = I_B + I_C$$

पढ़िए और पढ़ाइये

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