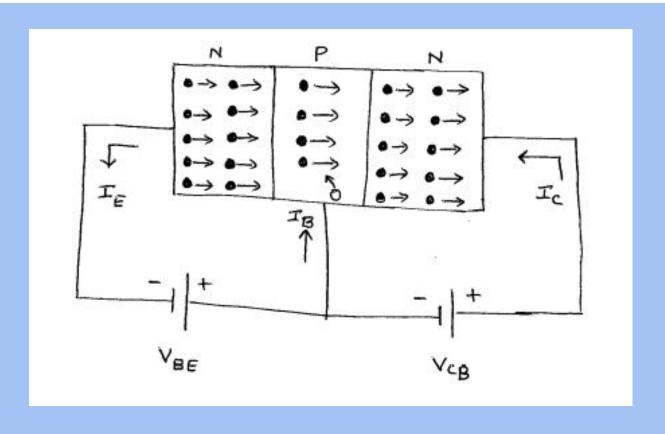
## **Working of NPN Transistor**

**Elementrix Classes** 

## **Working of NPN Transistor**



☐ As Shown in figure, the forward bias is applied to the emitter base junction of NPN transistor causes a lot of electrons from the emitter region to cross over to the base region.

□ As the base is lightly doped with p-type impurity, the number of holes in the base region is very small and hence the number of electrons that combine with holes in the p-type base region is also very small.

☐ Hence a few electrons combine with holes to constitute a base current I<sub>R</sub>. The remaining electrons (more than 95%) crossover into the collector region constitute a collector current (I<sub>C</sub>).

☐ Thus the base and collector current summed up gives the emitter current, i.e.

## पढ़िए और पढ़ाइये

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