

SEMICONDUCTOR ELECTRONICS

CLASSIFICATION OF METALS (CONDUCTORS), INSULATORS AND SEMICONDUCTORS

On the basis of Conductivity

Metals : (Conductors)

- Low resistivity $10^{-2} - 10^{-8} \Omega m$
- High Conductivity $10^2 - 10^8 \Omega^{-1} m^{-1}$

Insulators :

- High resistivity $10^{11} - 10^{19} \Omega m$
- Low conductivity $10^{-11} - 10^{-19} \Omega^{-1} m^{-1}$

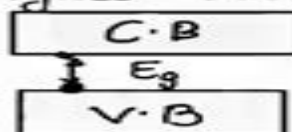
Semiconductors :

- resistivity or conductivity intermediate to conductors & insulators.
- $\rho = 10^{-5} \text{ to } 10^6 \Omega m$
- $\sigma = 10^5 \text{ to } 10^6 \Omega^{-1} m^{-1}$

ON THE BASIS OF ENERGY BANDS

Energy Band : An enormously large number of energy levels closely spaced in a very small energy range constitute an energy band.

- **Valence Band :** → The energy band which includes the energy levels of the valence e^- is called valence band. The band contains valence e^- . This band may be partially or completely filled. This band is never empty. Electrons in this band do not contribute to electric current.
- **Conduction Band :** → The energy band above the valence band is called conduction Band.
- **Band Gap :** The difference between the highest energy in a band and lowest energy in the next higher band is called the band gap.



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