

Semiconductor Devices

Short Notes

PN Junction

P-type: When trivalent impurities are added or doped to pure (intrinsic) semiconductor, p-type semiconductor is formed.

Trivalent Impurities → Gallium, Indium, etc.

N-type: When pentavalent impurities are added or doped to pure semiconductor, n-type semiconductor is formed.

Pentavalent Impurities → Antimony, Arsenic

P-type
Holes (+ve charge)
Majority charge carriers
Electrons (-ve charge)
Minority charge carriers

N-type
Electrons
Majority charge carriers
Holes
Minority charge carriers

Do majority and minority charge carriers vary? $\rightarrow 100\%$ P-type or 100% N-type semiconductor contains some amount of electron in holes and N-type contains some amount of holes in electrons. So, P-type has electron as minority charge carriers and N-type has holes as minority charge carriers.



If P-type & N-type are attached, diffusion phenomena occurs. Charges get diffused or moved to another end, which creates a potential barrier or depletion layer.



PN Diode (Diode - Device)

Diode is a device made by use of semiconductor.



Fig - Diode



Fig - Symbolical representation of PN Junction diode

Forward Biasing of Diode



Fig - Forward Biasing. Positive charges have to get holes, recombination happens, +ve charge motion, depletion layer moves, and flow of charge, electricity through diode happens.



Fig - Reverse Biasing. No flow of electricity. Yes, -ve to +ve charge attraction happens, but both sides accumulate charges, so no current.

Forward Biasing Characteristics



Fig - Circuit diagram of Forward Biasing



Fig - Forward characteristics. Suggest a rheostat to help in voltage reduction, current 0 mA, yes, meaning potential barrier is not overcome. Voltage supply hinders, and voltage barrier potential barrier is

potential barrier. Voltage barrier, gradual increase of current, at point where potential barrier is overcome, current sharply increases.

Reverse Biasing Characteristics

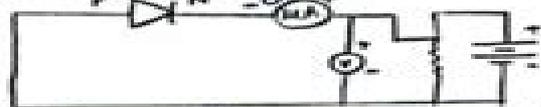


Fig - Circuit diagram of reverse biasing



Fig - Reverse characteristics. Semiconductor is pure state, but contains some impurities. P-type contains thermal electrons, holes, and N-type contains thermal electrons, holes, and minority charge carriers. So -ve charge carriers move towards the positive terminal, and +ve charge carriers move towards the negative terminal.

Yes, breakdown voltage, but current sharply increases.

Rectification: Process of converting AC to DC

1. Half-wave Rectification



Semiconductor 12th Class Chapter Notes

Michael Hoelscher



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