

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? → 100% P-type or 100% N-type semi-conductor 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 semi-conductors.



Fig: Diode



Fig: Symbolical representation of PN Junction diode

Forward Biasing of Diode



Fig: Forward Biasing. Positive charges have to get holes, and negative charges have to get electrons. In the depletion layer, there is a net flow of charge, electricity through the diode.



Fig: Reverse Biasing. No flow of electricity. Yes, there is a -ve charge attraction, but the side has accumulated positive charges, so electricity does not flow.

Forward Biasing Characteristics



Fig: Circuit diagram of Forward Biasing



Fig: Forward characteristics

Series rheostat to help in voltage regulation, current control, etc. Yes, the meaning of potential barrier is potential difference across the junction. When voltage is applied, the potential barrier is reduced.

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

Reverse Biasing Characteristics

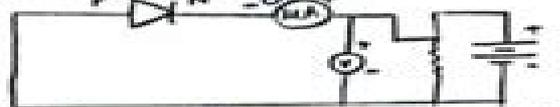


Fig: Circuit diagram of reverse biasing



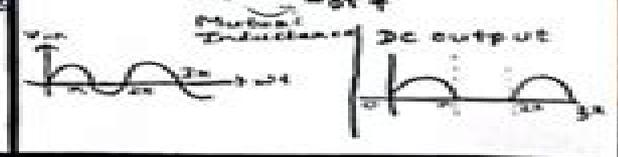
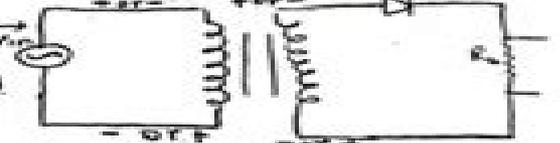
Fig: Reverse characteristics

Semiconductor is a pure state. In a pure state, there are no free electrons or holes. In P-type, there are holes and in N-type, there are electrons. As minority charge carriers, they move towards the junction. Minority charge carriers are called as minority carriers. In a pure state, there are no free electrons or holes.

Yes, the breakdown voltage is the voltage at which the current sharply increases.

Rectification: Process of converting AC to DC

1. Half-wave Rectification



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LM Reder

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