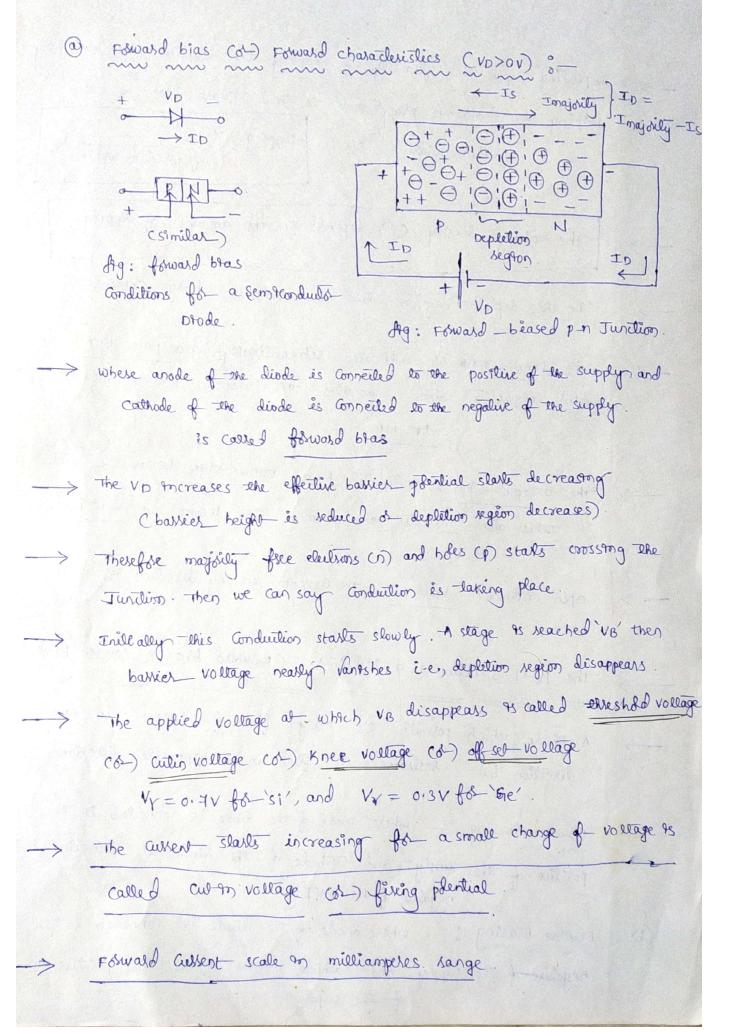
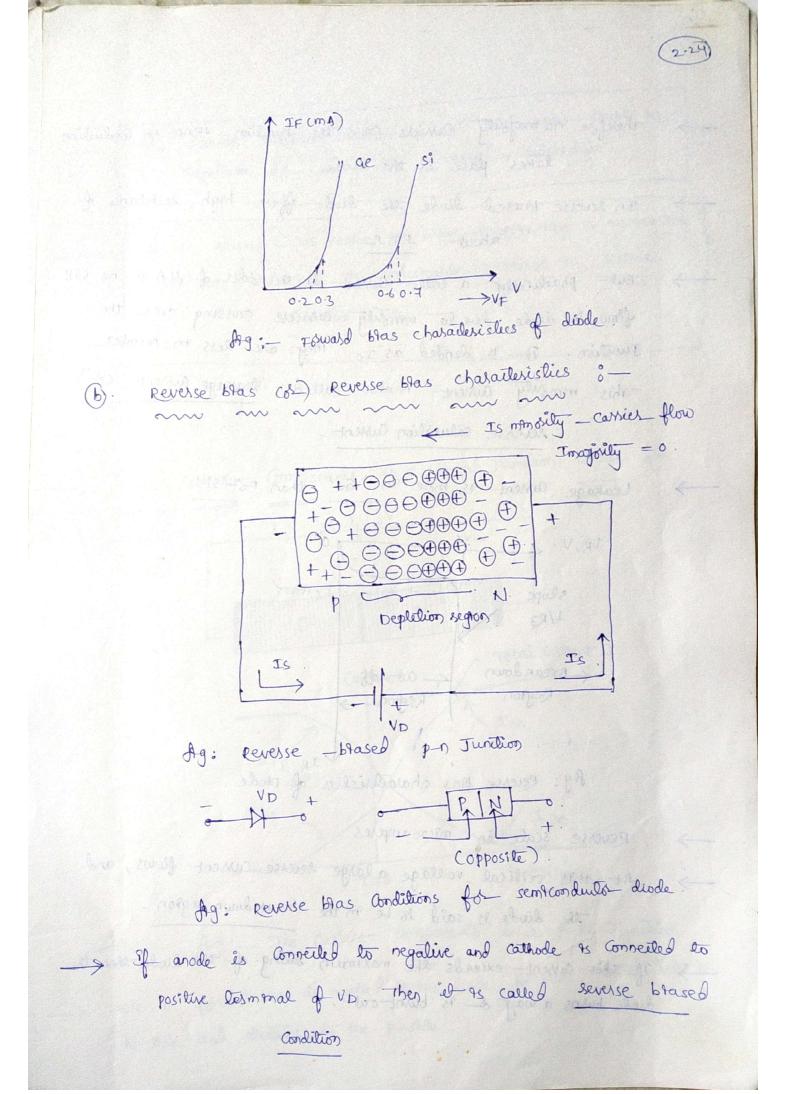


A Diode which permits the easy flow of current in one direction but restrains the flow in the opposite direction.

(a) Howard Biasing: — where anode of the diode is Connected to the positive of the supply and cathode of the diode is Connected to the negative of the supply.

(b) Reverse Biasing: — where anode of the diode is Connected to the negative of the supply.





-> therefore no majority carriers cross the junction. Hence no conduction lakes place in the diode. In severse brased diode the diode offers high sestitance of about 1mr. BUT practically a little current in the order of MA or MA WIII flow is dide due to menority corriers crossing over the Juntion. De & dended as Io. They are less on number. this mandity ament is also called leakage ament co) severse salusation Cuttert Leakage ausent as more an "Ge" than For si" VR, V. slope 1/R2. Ag: Peresse has characteristics of Drode. > Reverse scale is macroampetes At this critical voltage a large severse current flows, and The diode is said to be in the break down negion. -> If this current exceeds the maximum saling of the diode then the diode burns a way of 45 burnt out.

- -> Diode Applications :-
 - 1. Rediféers: The circuits amvert Ac anto DC.
 - 2) Digital Logic Gates: In these circuits, the diode function as a switch. II-Is ON when the diode Conducts and OFF without Conduction.
- 3. clamping network used as d.c. restorer on TV recevers and voltage multipliers.
- (4) clipping circuits used as wave shaping circuits used in computers, radio and TV receivers.
- 3. Demodulation (detects) chails.