

Lecture-2

Power Devices

Nadim Chowdhury

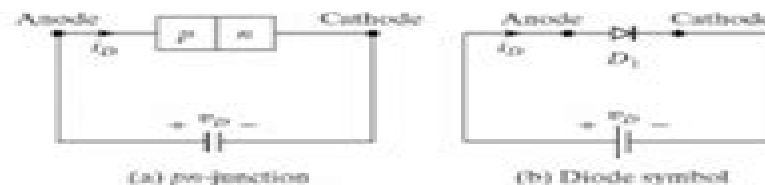
Department of EEE

Bangladesh University of Engineering and Technology

nadim@eee.buet.ac.bd

Power Diode

- A power diode is a two-terminal pn-junction device and a pn-junction is normally formed by alloying, diffusion, and epitaxial growth. The modern control techniques in diffusion and epitaxial processes permit the desired device characteristics



IV Characteristics

$$I_D = I_S(e^{V_D/nV_T} - 1)$$

where I_D = current through the diode, A;

V_D = diode voltage with anode positive with respect to cathode, V;

I_S = leakage (or reverse saturation) current, typically in the range 10^{-9}

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