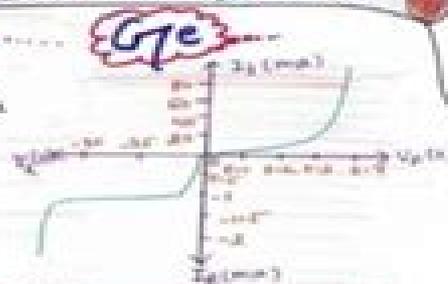


Basic Electronics

V-I CHARACTERISTICS OF SILICON AND GERMANIUM

FORWARD CHARACTERISTICS

- A very small forward current flows until the forward voltage exceeds 0.3V.
- When the forward voltage exceeds 0.3V, the current increases rapidly.

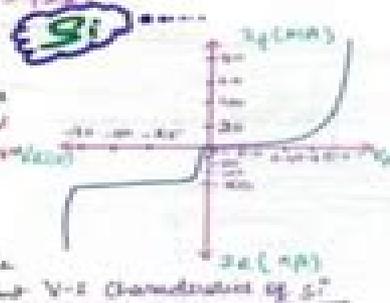


REVERSE CHARACTERISTICS

- When the applied reverse voltage is below the breakdown voltage, the diode current is very small, typically around 2mA (which is lower than the reverse current for a silicon diode).
- When the reverse voltage exceeds breakdown voltage (around 50V) the current ↑ very rapidly.
- Reverse breakdown voltage for Ge is less than that of Si from the characteristic $|I_r| \gg |I_s|$.

FORWARD CHARACTERISTICS

- A very small forward current flows until the forward voltage exceeds 0.7V.
- When the forward voltage exceeds 0.7V, the current increases rapidly.



REVERSE CHARACTERISTICS

- When the applied voltage below the breakdown voltage, the diode current is very small (around 100 nA).
- When the reverse voltage is exceeds breakdown voltage (around 70V) the current increases very rapidly.
- from the characteristic $|I_r| \gg |I_s|$.

Industrial Electronics Lecture Notes

Lauren Gardner



Industrial Electronics Lecture Notes:

The book delves into Industrial Electronics Lecture Notes. Industrial Electronics Lecture Notes is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Industrial Electronics Lecture Notes, encompassing both the fundamentals and more intricate discussions.

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