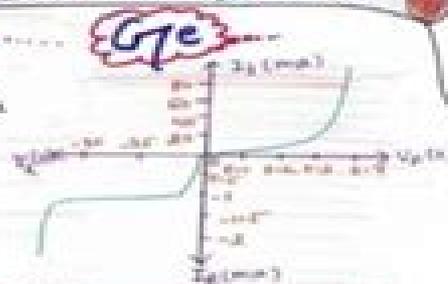


Basic Electronics

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.

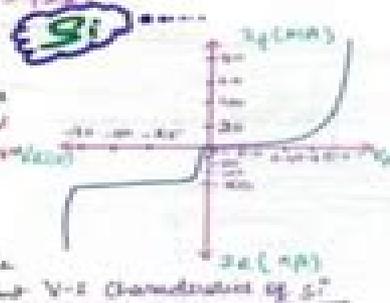


REVERSE CHARACTERISTICS

- 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 $|I_r| \gg |I_s|$.

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various basic principles with applications from domestic to industrial the learner will have the feeling of this field Basic principles are explained without the use of complex mathematics and further understanding can be sought via dedicated computer animations Consolidated with several experiments it is very helpful for beginners and useful as a first practical course on power electronics for technical colleges and corporate in house training *Electronics for Industrial Design* M. Hajian, Delft University of Technology, Faculty of Industrial Design Engineering. Product Engineering Group, 2012

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