

Basic Electronics

V-I CHARACTERISTICS OF SILICON AND GERMANIUM

FORWARD CHARACTERISTICS

Ge

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

V-I Characteristics of Ge

FORWARD CHARACTERISTICS

Si

- 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 $|I_r| \gg |I_s|$

V-I Characteristics of Si



Industrial Electronics Lecture Notes

Annelies Wilder-Smith



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