

# 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

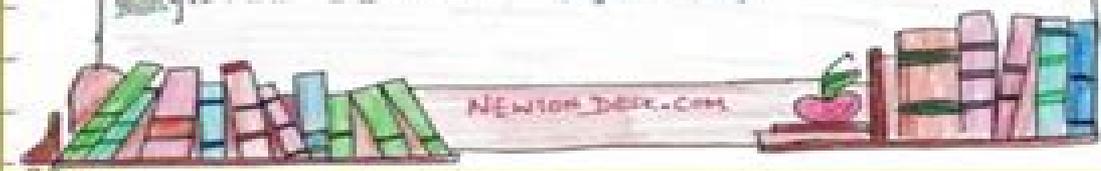
- A very small forward current flows until the forward voltage exceeds 0.7V
- When the forward voltage exceeds 0.7V, the current increases rapidly.



### 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

**Daniel J. Shanefield**



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