

Transistoren

B = Basis

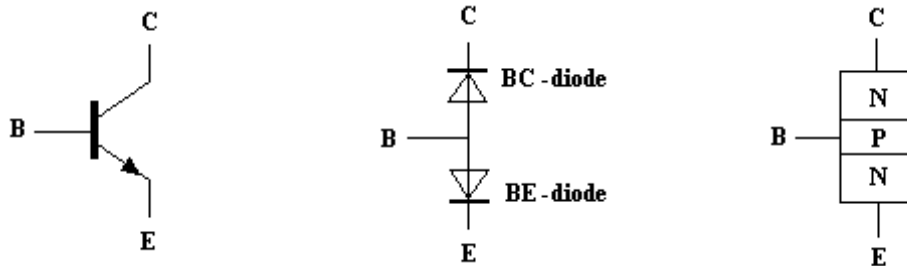
C = Collector

E = Emitter

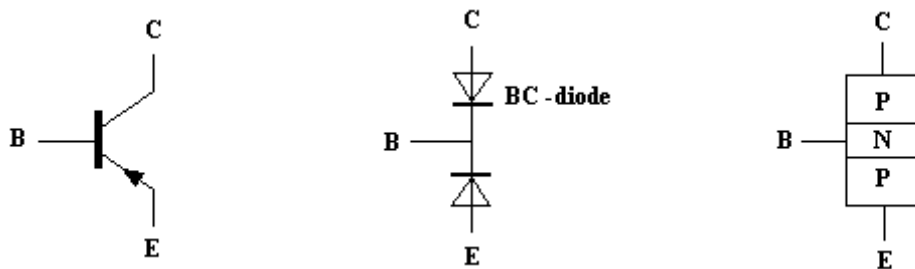
NPN (Negatief Positief Negatief) (Niet Pijl Naar plaat)

PNP (Positief Negatief Positief) (Pijl Naar Plaat)

NPN



PNP



Rekenen aan Transistoren

- $H_{fe} = I_c / I_b$
- $U_v = U_{rb} + U_{be}$
- $U_v = U_{rc} + U_{ce}$
- $U_{rb} = U_v - U_{be}$
- $U_{be} = U_v - U_{rb}$
- $U_{rc} = I_c \cdot R_c$
- $U_{ce} = U_v - U_{rc}$
- $I_e = I_c + I_b$
- $I_e = U_e / R_e$
- $I_b = U_{rb} / R_b$
- $I_c = H_{fe} \cdot I_b$
- $P_{ce} = I_c \cdot U_{ce}$
- $P_{tot} = I_b \cdot U_{be} + I_c \cdot U_{ce}$
- $P_{tot} = P_{ce} = I_c \cdot U_{ce}$

