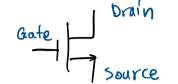
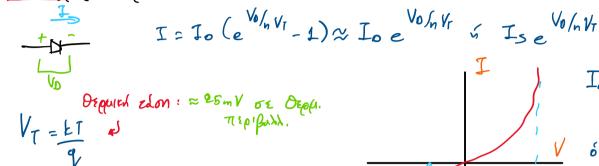


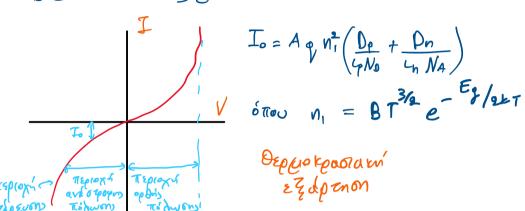
[Collector BJT
Bipolar Junction Transistor



MOS Metal Oxide Semiconductor

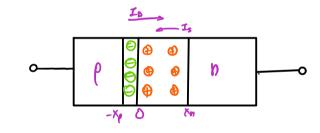
Mn papphing porzedo

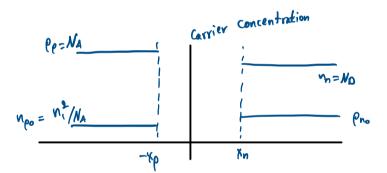




Evwon
$$\rho_n$$
 K-I.
 $t=300$ K, $N_A=10^{10}/cm^3$, $N_0=10^{16}/cm^3$, $n_i=1,5\cdot 10^{10}/cm^3$
 $A=10^{-9}/cm^3$,

$$N=3$$
 $X^{n}=3$ $X^{n}=3$ $X^{n}=3$ $X^{n}=3$ $X^{n}=3$





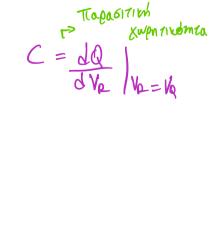
Núm $\rho_{e}=N_{A}$, $N_{n}=N_{0}$, $\rho_{n_{0}}=\frac{N_{1}^{2}}{N_{0}}$, $n_{p_{0}}=\frac{N_{1}^{2}}{N_{1}}$ Vo = Yr ln (NoNA) ~ 0,81 V -> SEPUDNO (coval 620 0,7)

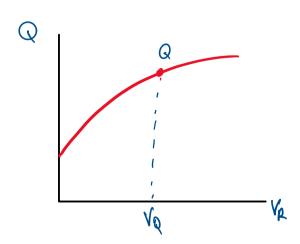
$$W = K\rho + Kn = \sqrt{\frac{9E_s}{\ell}} \left(\frac{1}{N_A} + \frac{1}{N_D} \right) V_o \approx 0,397 \, \mu m$$

$$K_n = W \frac{N_A}{N_{A+N_0}}$$

$$Q = A_q \left(\frac{N_A N_0}{N_{A+N_0}} \right) W \approx 5,18 \mu C$$

$$\chi_{e} = M \frac{N_D}{N_A + N_D}$$

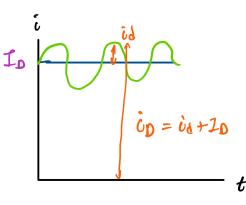




ZCABONI OUD MEDERWY

Io: de rigin

Id: Tda 200 npizóno dos Lo



id = Io Dinut