Tarez 1 .-



Asmiendo; en: 20 ción complete en el seniconductor:

Ahoro con el del fipo M:

$$N_n = P_n + N_0$$
  $N_i^2 = n_n P_n$ 

Nn-2.1014 Nn-1,1.620=0

Mn ~ 2.10"4 1 + 4 5 5.

$$\frac{{n_i}^2}{n_n} = P_n (-1) \quad P_n = 0,55.10^6$$

 $V_{T} = \frac{\kappa_{0}T}{q}$  donde:  $\kappa_{0} = 1,38.10^{-23} \left[\frac{1}{\kappa}\right]$ 

22 minds T=300 [K]. VT = 25,85[mV] 2 L6[mV].

 $V_0 = V_T ln\left(\frac{n_n}{n_p}\right)$ 

= 26.0 -3 ln 
$$\left(\frac{2.10^{14}}{730}\right)$$