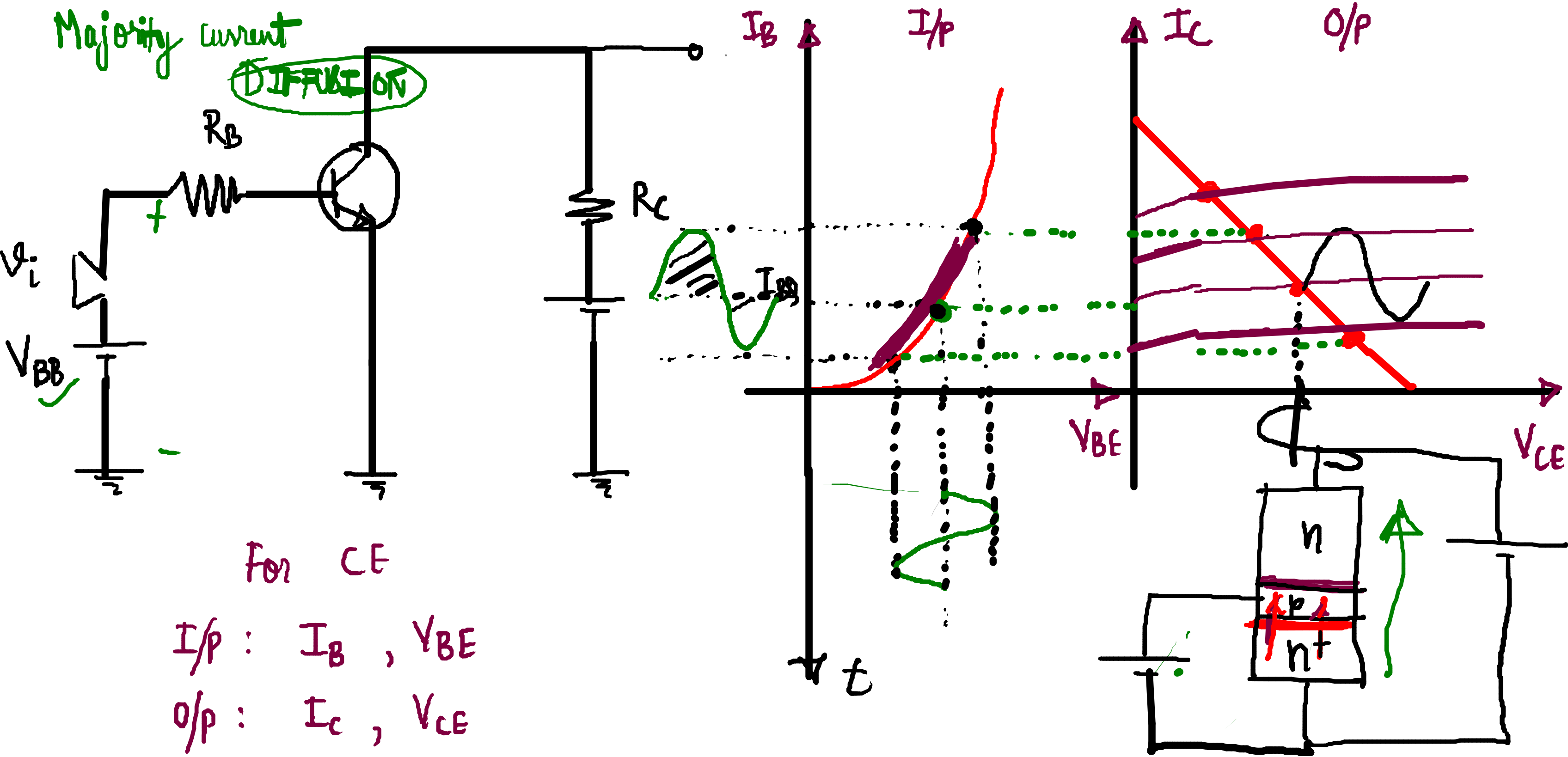
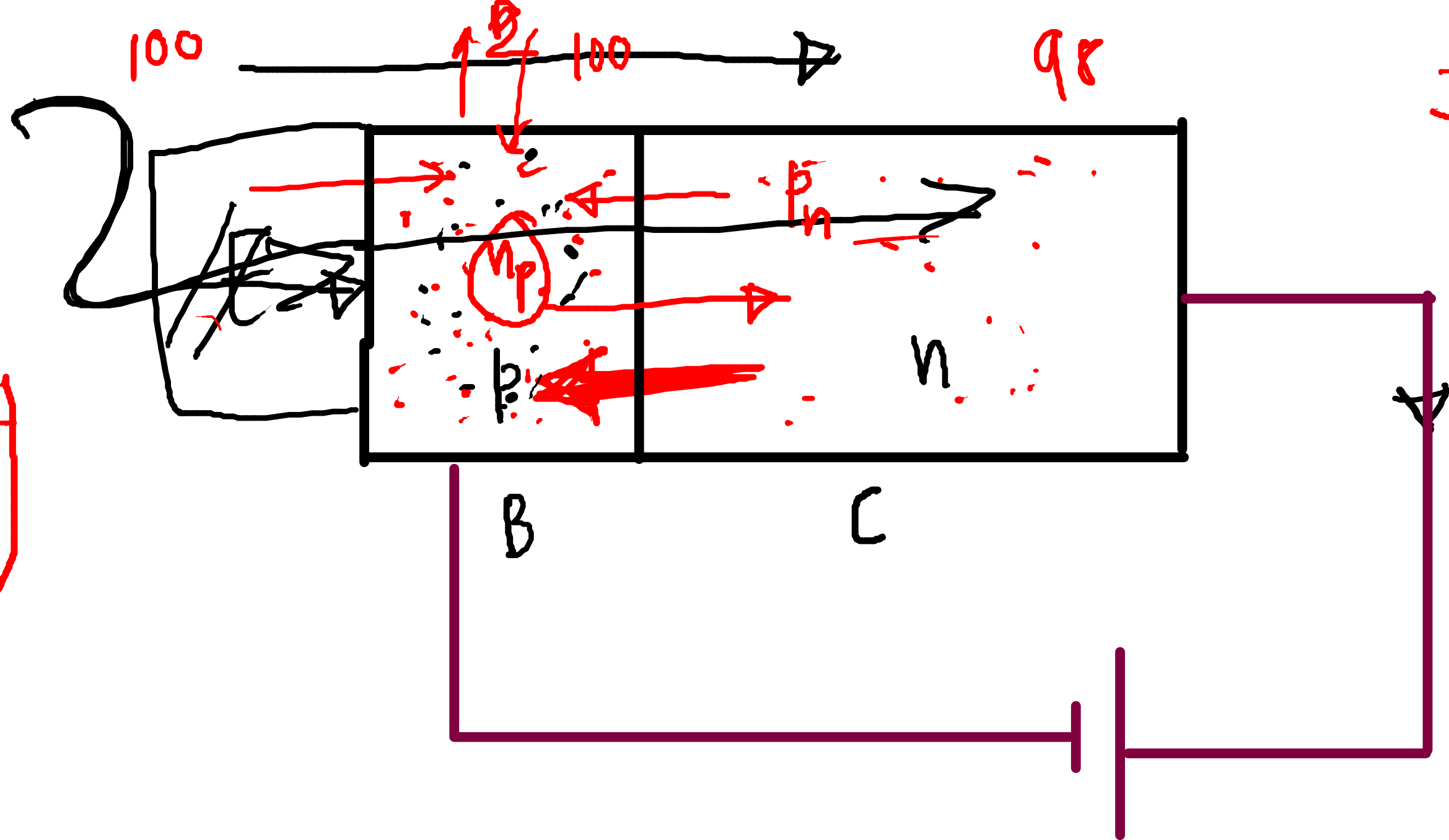
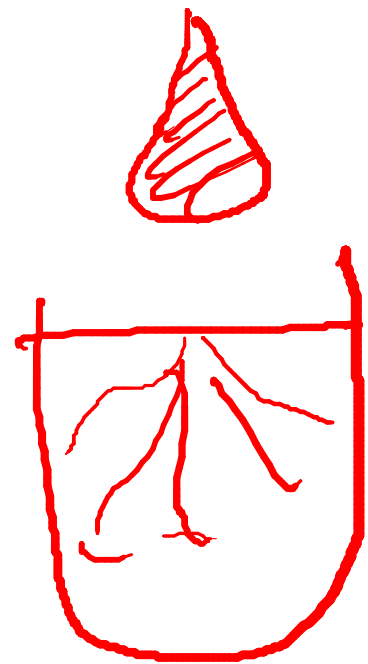
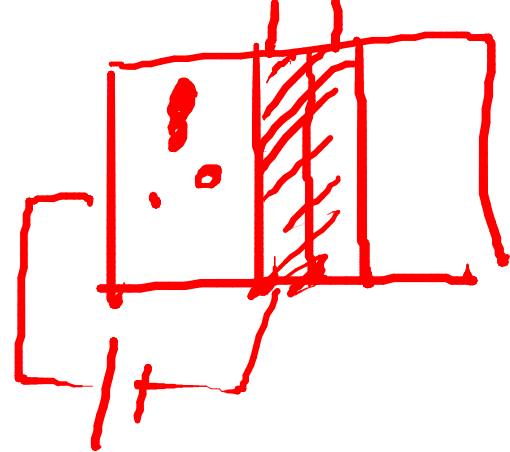


Cascode



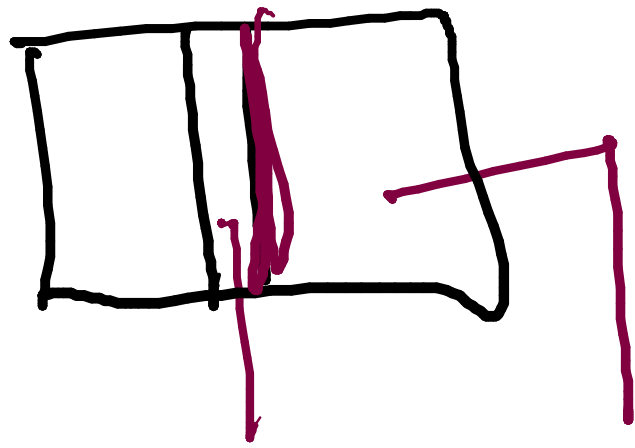


$$J_n = q \mu_n E n$$



$V_0$

$10^{-16}$



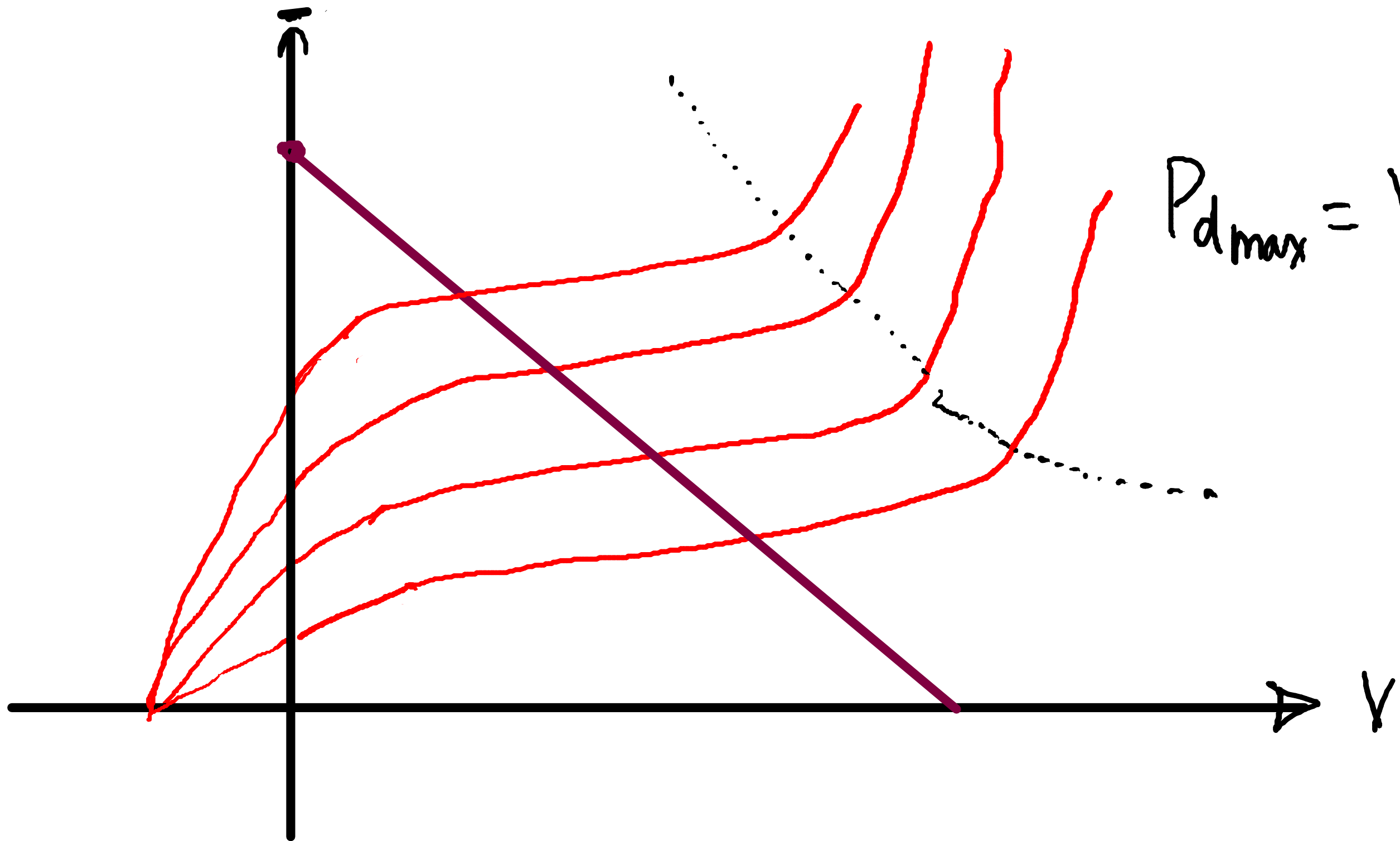
$$q_p D_p \frac{dp}{dx} = q_p \mu_p E \quad I_E$$



$$I_C = I_{CBO} + I_s \exp\left(\frac{V_{BE}}{nV_T}\right)$$

$$I_C = f(V_{BE}, V_{CE})$$

Output current is function of input current & output voltage.



$$P_{dmax} = V_{ce} \times I_c$$