



$N_d = 5 \times 10^{16} \text{ cm}^{-3}$   
 $\mu_p = 500 \text{ cm}^2/\text{V}\cdot\text{s}$   
 $\tau_p = 0.1 \text{ }\mu\text{s}$   
 $A = 0.001 \text{ cm}^2$   
 $T = 300 \text{ K}$