

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

