

$$N_d = 5 \times 10^{16} \text{ cm}^{-3}$$

$$\mu_p = 500 \text{ cm}^2/\text{V-s}$$

$$\tau_p = 0.1 \mu\text{s}$$

$$A = 0.001 \text{ cm}^2$$

$$T = 300 \text{ K}$$