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(a) $n_i = (1.66 \times 10^{15}) (100)^{3/2} \exp[-0.66] = (1.66 \times 10^{18}) \exp[-38.37] \exp[-6] \sqrt{2(86 \times 10)(100)}$ $n_i = 35.9 \text{ cm}^{-3}$ (b) $n_i = (1.66 \times 10^{15}) (300)^{3/2} \exp[-0.66] = (8.626 \times 10^{18}) \exp[-12.79] \exp[-6] \sqrt{2(86 \times 10)(300)}$ $n_i = 2.40 \times 10^{13} \text{ cm}^{-3}$ (c) $n_i = (1.66 \times 10^{15}) (500)^{3/2} \exp[-0.66] = (1.856 \times 10^{19}) \exp[-7.674] \exp[-6] \sqrt{2(86 \times 10)(500)}$ $n_i = 8.62 \times 10^{15} \text{ cm}^{-3}$...

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$P_Z (\text{max}) = 400 \text{ mW} \Rightarrow I_Z (\text{max}) = \Rightarrow I_L (\text{min}) = I - I_Z (\text{max}) = 45 - 40 \Rightarrow I_L (\text{min}) = 5 \text{ mA} = 400 = 40 \text{ mA}$ $10 \text{ } 10 \text{ } R_L \Rightarrow R_L = 2 \text{ k}\Omega$ (c) $I = 57.1 \text{ mA}$ $I_L = 26.3 \text{ mA}$ For $R_i = 175\Omega$ $I_Z = 30.8 \text{ mA}$ $I_Z (\text{max}) = 40 \text{ mA} \Rightarrow I_L (\text{min}) = 57.1 - 40 = 17.1 \text{ mA}$ $R_L = 10 \Rightarrow R_L = 585\Omega$ 17.1

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