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Assuming that the
diodes in the

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circuits of Fig. P4.9 are ideal, find the values of the labeled

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~~Chapter 3 The FET:~~

~~Example 3.5~~

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TYU1.16 $V_z = V_{z0}$

$+ I_z r_z \Rightarrow V_{z0} = V_z$

$- I_z r_z$ so $V_{z0} =$

$5.20 - (10^{-3}) (20$

$) = 5.18 \text{ V}$

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$$\begin{aligned} (a) \quad n_i &= (1.66 \times 10^{15}) (100)^{3/2} \exp[-0.66] \\ &= (1.66 \times 10^{18}) \exp[-38.37] \exp[-6] \\ &= (86 \times 10) (100) \quad n_i = 35.9 \text{ cm}^{-3} \end{aligned}$$

$$\begin{aligned} (b) \quad n_i &= (1.66 \times 10^{15}) (300)^{3/2} \exp[-0.66] \\ &= (8.626 \times 10^{18}) \exp[-6] \end{aligned}$$

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$$\begin{aligned} & -12.79] \exp \left[-6 \right. \\ & \left. \left(2 \left(86 \times 10 \right) \left(\right. \right. \right. \\ & \left. \left. \left. 300 \right) \right) \right] n_i = 2.40 \\ & \times 10^{13} \text{ cm}^{-3} \text{ (c)} \\ & n_i = \left(1.66 \times 10^{15} \right) \\ & \left(500 \right)^{3/2} \left[\right. \\ & \left. -0.66 \right] = \left(1.856 \times \right. \\ & \left. 10^{19} \right) \exp \left[\right. \\ & \left. -7.674 \right] \exp \left[-6 \right. \\ & \left. \left(2 \left(86 \times 10 \right) \left(\right. \right. \right. \\ & \left. \left. \left. 500 \right) \right) \right] n_i = 8.62 \\ & \times 10^{15} \text{ cm}^{-3} \dots \end{aligned}$$

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2 exp 2 g i E n BT

$kT - \square\square = \square\square\square\square$

GaAs: () () 3/ 2 14 6

1.4 2.1 10 300 exp

2 86 10 300 i n - \square

$\square - \square\square = \times \square\square \times \square$

\square or 6 3 1.8 10 i n

cm - = \times Ge: () ()

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$\times = -300 \times 10^8 \times 2$
 $66.0 \exp 300 \times 10$
 $66.1 \times 6 \times 2 / 3 \times 15 \text{ in}$
or $13 \times 3 \times 2.40 \times 10 \text{ in}$
cm $- = \times$ _____

EX1.2 (a) (i ...

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_____ EX1.8 $\square V \square$

$$V_{PS} = I_D R + V_D$$

and $I_D \square I_S \exp \square$

$$D \square \square V_T \square (4 - V_D$$

) so $4 = I_D (4 \times$

$$10^3) + V_D \square I_D =$$

$$4 \times 10^3 \text{ and } \square V \square I$$

$$D = (10^{-12}) \exp$$

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By trial and error, we find $I_D = 0.026$ A

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Assume that the BJT in the common-emitter circuit shown in Figure 8.4 has limiting factors of: β , and

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Neglecting second breakdown effects, determine the minimum value of R_L such that the Q-point of the transistor always stays within the safe operating area for: (a) , and (b) . In each case, determine the maximum collector current and

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maximum transistor power dissipation.

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electronics
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employing more
than 3,600
talented makers,
thinkers,

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innovators, and
doers nationwide.

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Content Highlig

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