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 $x = ( ) 5 \times 10^{20} \text{ cm}^{-3} \cdot \frac{1}{3}$   
 $= 1.3 \times 10^{-7} \text{ cm} = 0.0013 \mu\text{m}$

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1.3. Consider a piece of pure silicon 100  $\mu\text{m}$  long with a cross-sectional area of 1  $\mu\text{m}^2$ . How much current would flow through this “resistor” at room

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exposure to basics of  
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