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 $= 1.3 \times 10^{27} \text{ cm}^{-3} = 0.0013 \text{ } \mu\text{m}^{-3} = 1.3 \text{ nm}^{-3}$ 1.3. Consider a piece of pure
silicon 100 μm long with a cross-sectional area of 1 μm^2 . How
much current would flow through this “resistor” at room

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driven in using a high temperature furnace cycle. P N+ N The SiO₂
is etched off the surface and an N type epitaxial layer is grown.
Note that

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Prerequisite: EE/MSE486 (Fundamentals of Integrated Circuit
Technology) or EE/MSE 502 (Introduction to MEMS) or EE 527
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