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Derivation of the Metal-Semiconductor junction current. 3.5 Metal-Semiconductor contacts. 3.5.1. Ohmic contacts 3.5.2. Tunnel contacts 3.5.3. Annealed and alloyed contacts 3.5.4. Contact resistance to a thin semiconductor layer. 3.6 Metal-Semiconductor Field Effect Transistors (MESFETs) 3.7 Schottky diode with an interfacial layer 3.8 Other unipolar junctions. 3.8.1.

Principles of Semiconductor Devices

Principles of Semiconductor Devices L Length m Ln Electron diffusion length m Lp Hole diffusion length m m Mass kg m0 Free electron mass kg me* Effective mass of electrons kg mh* Effective mass of holes kg n Electron density m-3 ni Intrinsic carrier density m-3 n(E) Electron density per unit energy and per unit volume m-3

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