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power semiconductor devices theory and applications

As per theory of semiconductor, semiconductor in its pure form is called as intrinsic semiconductor. In pure semiconductor number of electrons (n) is equal to number of holes (p) and thus conductivity is very low as valence electrons are covalent bonded. In this case we write  $n = p = n_i$ , where  $n_i$  is called the intrinsic concentration.

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devices, it is necessary to consider static and dynamic losses,driveenergy,dV/dt,dI/dtandSafeOperatingAreas. The silicon diode Silicon is the semiconductor material used for all power switchingdevices. Lightly doped N-silicon is usually taken as the starting material. The resistance of this material depends upon its resistivity, thickness and total area.

CHAPTER 1 Introduction to Power Semiconductors

A power semiconductor device is a semiconductor device used as a switch or rectifier in power electronics. Such a device is also called a power device or, when used in an integrated circuit, a power IC. A power semiconductor device is usually used in "commutation mode", and therefore has a design optimized for such usage; it should usually not be used in linear operation. Linear power circuits are widespread as voltage regulators, audio amplifiers, and radio frequency amplifiers. Power semicondu