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As per theory of semiconductor,
semiconductor in its pure form is called as
intrinsic semiconductor. In pure

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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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Power Semiconductor Devices Theory And Applications

devices, it is necessary to consider static and dynamic losses, drive energy, dV/dt , dI/dt and Safe Operating Areas. The silicon diode Silicon is the semiconductor material used for all power switching devices. Lightly doped N-silicon is usually taken as the

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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

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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

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voltage regulators, audio amplifiers, and
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