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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 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

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