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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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is dedicated to the review of the following power electronic devices which act as solid-state switches in the circuits. They act as a switch without any mechanical movement. Power Diodes; Metal-Oxide-Semiconductor Field-Effect Transistor (MOSFET)

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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 starting material. The resistance of this material depends upon its resistivity, thickness and total area.

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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

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