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IGBT Principle of Operation. IGBT requires only a small voltage to maintain conduction in the device unlike in BJT. The IGBT is a unidirectional device, that is, it can only switch ON in the forward direction. This means current flows from the collector to the emitter unlike in MOSFETs, which are bi-directional.

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The Basics of Power Semiconductor Devices: Structures

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Operating Principle of Power diode: The operating principle of power diode is same as the conventional PN junction diode. A diode conducts when the anode voltage is higher than the cathode voltage. The forward voltage drop across the diode is

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very low around 0.5V to 1.2V. In this region, the diode works as a forward characteristic.

Power Diode: Construction, Operating Principle and IV ...

The electrons reach the channel is formed. The positive voltage also attracts electrons from the n+ source and drain regions into the channel. Now, if a voltage is applied between the drain and source, the current flows freely between the source and drain and the gate voltage controls the electrons in the channel.

Basics, Working Principle & Applications - Electronics For You

The book focusses presenting the operating principles and design of various devices in power electronics with special focus on applications to power transmission, electric drives, lighting, heating and welding, transportation covering railways, automobiles, aircraft, marine craft, and rockets.

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