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The IGBT device has proved to be a highly important Power Semiconductor, providing the basis for adjustable speed motor drives (used in air conditioning and refrigeration and railway locomotives), electronic ignition systems for gasolinepowered motor vehicles and energy-saving compact fluorescent light bulbs.

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The IGBT Device - 1st Edition

The IGBT Device: Physics, Design and Applications of the Insulated Gate Bipolar Transistor. The IGBT Device. : B. Jayant Baliga. William Andrew, Mar 6, 2015 - Technology & Engineering - 732 pages....

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A. Nakagawa et al. invented the device design concept of non-latch-up IGBTs in 1984. The invention is characterized by the device design setting the device saturation current below the latch-up current, which triggers the parasitic thyristor. This invention realized complete suppression of the parasitic thyristor action, for the first time, because the maximal collector current was limited by the saturation current and never exceeded the latch-up current.

Insulated-gate bipolar transistor - Wikipedia

Practical insulated gate bipolar transistor (IGBT) devices have a finite size with a well-defined active area where the current flow occurs, an edge termination region surrounding the active area, and pads for locating the wires to carry current into and out of the chip. The design of the active area is related to the on-state current density.

The IGBT Device | ScienceDirect

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Insulated Gate Bipolar Transistor Igbt Theory And Design

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The Insulated Gate Bipolar Transistor (IGBT) is a minority-carrier device with high input impedance and large bipolar current-carrying capability. Many designers view IGBT as a device with MOS input characteristics and bipolar output characteristic that is a voltage-controlled bipolar device.

Insulated Gate Bipolar Transistor (IGBT) Basics

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