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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

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. Recent applications include plasma displays (flat-screen TVs) and electric power ...

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The author, B. Jayant Baliga, invented the IGBT in 1980 while working for GE. His book will unlock IGBT for a new generation of engineering applications, making it essential reading for a wide audience of electrical engineers and design engineers, as well as an important publication for semiconductor specialists.

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An insulated-gate bipolar transistor (IGBT) is a three-terminal power semiconductor device primarily used as an electronic switch which, as it was developed, came to combine high efficiency and fast switching. It consists of four alternating layers (P-N-P-N) that are controlled by a metal-oxide-semiconductor (MOS) gate structure without regenerative [clarification needed] action.

Insulated-gate bipolar transistor - Wikipedia

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