

# Global Insulated Gate Bipolar Transistors and Metal Oxide Field Effect Transistor Market Growth 2025-2031

<https://marketpublishers.com/r/G6FFECA48381EN.html>

Date: June 2026

Pages: 102

Price: US\$ 3,660.00 (Single User License)

ID: G6FFECA48381EN

## Abstracts

The global Insulated Gate Bipolar Transistors and Metal Oxide Field Effect Transistor market size is predicted to grow from US\$ million in 2025 to US\$ million in 2031; it is expected to grow at a CAGR of 12.8% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

IGBT aims to deliver faster switching rate and higher efficiency to enable proper operations at high voltage or high current. In addition, it can be used for dynamic breaking, where the power is dissipated by resistors that are connected in parallel or in series. It is widely used in high power rating applications, which include electric vehicle motor drives, inductive heating cookers, and appliance motor drives.

IGBT is widely used in various applications such as renewable energy, high voltage direct current (HVDC), motor drive, and consumer electronics, owing to its faster switching rate, high efficiency, and improved durability. Moreover, it supports high input impedance and improved parallel current sharing; thereby, fueling the market growth. However, performance issues, such as current leakage and breakdown, hamper the market growth. Proactive government initiatives to establish HVDCs & smart grids and increase in demand for consumer electronic are expected to provide lucrative opportunities to market players in the near future.

LP Information, Inc. (LPI) ' newest research report, the "Insulated Gate Bipolar Transistors and Metal Oxide Field Effect Transistor Industry Forecast" looks at past sales and reviews total world Insulated Gate Bipolar Transistors and Metal Oxide Field

Effect Transistor sales in 2024, providing a comprehensive analysis by region and market sector of projected Insulated Gate Bipolar Transistors and Metal Oxide Field Effect Transistor sales for 2025 through 2031. With Insulated Gate Bipolar Transistors and Metal Oxide Field Effect Transistor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Insulated Gate Bipolar Transistors and Metal Oxide Field Effect Transistor industry.

This Insight Report provides a comprehensive analysis of the global Insulated Gate Bipolar Transistors and Metal Oxide Field Effect Transistor landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Insulated Gate Bipolar Transistors and Metal Oxide Field Effect Transistor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Insulated Gate Bipolar Transistors and Metal Oxide Field Effect Transistor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Insulated Gate Bipolar Transistors and Metal Oxide Field Effect Transistor and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Insulated Gate Bipolar Transistors and Metal Oxide Field Effect Transistor.

This report presents a comprehensive overview, market shares, and growth opportunities of Insulated Gate Bipolar Transistors and Metal Oxide Field Effect Transistor market by product type, application, key manufacturers and key regions and countries.

### **Segmentation by Type:**

High Voltage

Medium Voltage

Low Voltage

**Segmentation by Application:**

Consumer Electronics

Inverter & UPS

Electric Vehicle

Industrial System

Others (Medical Devices & Traction)

Energy & Power

**This report also splits the market by region:**

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Fairchild Semiconductor International Inc

STMicroelectronics

ABB Ltd

Hitachi Power Semiconductor Device Ltd

Toshiba Corporation

Mitsubishi Electric Corporation

Infineon Technologies AG

### **Key Questions Addressed in this Report**

What is the 10-year outlook for the global Insulated Gate Bipolar Transistors and Metal Oxide Field Effect Transistor market?

What factors are driving Insulated Gate Bipolar Transistors and Metal Oxide Field Effect Transistor market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Insulated Gate Bipolar Transistors and Metal Oxide Field Effect Transistor market opportunities vary by end market size?

How does Insulated Gate Bipolar Transistors and Metal Oxide Field Effect Transistor break out by Type, by Application?

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