

Global IGBT Market 2024 by Company, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G7208051AB52EN.html>

Date: January 2024

Pages: 147

Price: US\$ 3,480.00 (Single User License)

ID: G7208051AB52EN

Abstracts

According to our (Global Info Research) latest study, the global IGBT market size was valued at USD 9661.4 million in 2023 and is forecast to a readjusted size of USD 25440 million by 2030 with a CAGR of 14.8% during review period.

IGBT is short for Insulated Gate Bipolar Transistor. It is a power transistor with a MOS structure for an input part and a bipolar one for an output part. Suitable for high voltage and high current, it is capable of controlling high power with less drive power.

The global IGBT market is dominated by Infineon Technologies, Mitsubishi Electric Corporation, Fuji Electric, ON Semiconductor, Semikron, etc. The top five manufacturers account for about 55% market share.

Japan is the largest IGBT market with a market share of about 40%, followed by Europe with a market share of about 30%.

The Global Info Research report includes an overview of the development of the IGBT industry chain, the market status of Automotive & EV/HEV (IGBT Modules, IGBT Discrettes), Industrial Control (IGBT Modules, IGBT Discrettes), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of IGBT.

Regionally, the report analyzes the IGBT markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global IGBT market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the IGBT market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the IGBT industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the revenue generated, and market share of different by Type (e.g., IGBT Modules, IGBT Discretets).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the IGBT market.

Regional Analysis: The report involves examining the IGBT market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the IGBT market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to IGBT:

Company Analysis: Report covers individual IGBT players, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards IGBT This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Automotive & EV/HEV, Industrial Control).

Technology Analysis: Report covers specific technologies relevant to IGBT. It assesses

the current state, advancements, and potential future developments in IGBT areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the IGBT market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

IGBT market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of value.

Market segment by Type

IGBT Modules

IGBT Discretets

IGBT-IPM

Market segment by Application

Automotive & EV/HEV

Industrial Control

Consumer Appliances

Wind power, PV, Energy Storage

Traction

Military & Avionics

Others

Market segment by players, this report covers

Infineon

Mitsubishi Electric (Vincotech)

Fuji Electric

Semikron Danfoss

Hitachi Power Semiconductor Device

Bosch

onsemi

Toshiba

Littelfuse (IXYS)

Microchip (Microsemi)

STMicroelectronics

Vishay

Denso

SanRex Corporation

Cisroid

StarPower Semiconductor

BYD

Zhuzhou CRRC Times Electric

Hangzhou Silan Microelectronics

MacMic Science & Technology

China Resources Microelectronics Limited

Yangzhou Yangjie Electronic Technology

EcoSemitek

Market segment by regions, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, UK, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Australia and Rest of Asia-Pacific)

South America (Brazil, Argentina and Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe IGBT product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of IGBT, with revenue, gross margin and global market share of IGBT from 2019 to 2024.

Chapter 3, the IGBT competitive situation, revenue and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and application, with consumption

value and growth rate by Type, application, from 2019 to 2030.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2019 to 2024. and IGBT market forecast, by regions, type and application, with consumption value, from 2025 to 2030.

Chapter 11, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of IGBT.

Chapter 13, to describe IGBT research findings and conclusion.

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