

Global IGBT Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global IGBT market size is expected to reach \$ 15960 million by 2032, rising at a market growth of 7.3% CAGR during the forecast period (2026-2032).

Insulated Gate Bipolar Transistor (IGBT) is a power semiconductor device that combines the advantages of MOSFET's fast switching capability and the bipolar transistor's high current handling capacity, making it a core component in medium- to high-voltage power conversion systems. IGBT products are mainly classified into discrete devices and IGBT modules, with further segmentation by voltage classes (600V–1200V, 1700V, 3300V, 6500V, etc.) and package types. Their applications are extensive, covering electric vehicles (inverters, on-board chargers, DC-DC converters), renewable energy (wind power, photovoltaic inverters), industrial drives, consumer electronics, railway traction, and smart grids. In the industry value chain, the upstream includes silicon wafers, SiC substrates (for emerging hybrid/next-gen devices), packaging materials, and module assembly equipment. Midstream manufacturers focus on IGBT chip design, wafer fabrication, and module packaging. The downstream sector includes automotive OEMs, renewable energy solution providers, industrial equipment manufacturers, and utility operators. Leading global players include Infineon, Mitsubishi Electric, Fuji Electric, ON Semiconductor, Toshiba, STMicroelectronics, and CRRC Times Electric, while Chinese suppliers such as StarPower, BYD Semiconductor, and Silan are rapidly rising.

At present, the IGBT industry is experiencing strong growth driven by the electrification of transportation and the global energy transition. EV adoption, rapid expansion of renewable energy installations, and demand for high-efficiency industrial automation are creating robust demand for IGBT modules. The technology roadmap is evolving toward higher power density, lower switching losses, enhanced reliability, and integration with

wide-bandgap semiconductors such as SiC, leading to hybrid modules that combine cost-performance advantages. In the future, the market will see increasing competition between traditional IGBT solutions and emerging SiC MOSFETs, with IGBT maintaining dominance in cost-sensitive and mid-voltage applications, while SiC expands in high-voltage and high-efficiency domains. Overall, the global IGBT sector will continue its steady growth trajectory, supported by megatrends in e-mobility, renewable energy, and smart electrification infrastructure.

This report studies the global IGBT production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for IGBT and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of IGBT that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global IGBT total production and demand, 2021-2032, (K Units)

Global IGBT total production value, 2021-2032, (USD Million)

Global IGBT production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global IGBT consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: IGBT domestic production, consumption, key domestic manufacturers and share

Global IGBT production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global IGBT production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global IGBT production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global IGBT market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Infineon, Mitsubishi Electric (Vincotech), Fuji Electric, Semikron Danfoss, Hitachi Energy, Bosch, onsemi, Toshiba, Littelfuse (IXYS), Microchip (Microsemi), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World IGBT market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global IGBT Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global IGBT Market, Segmentation by Type:

IGBT Modules

Discrete IGBTs

Global IGBT Market, Segmentation by Application:

Automotive & EV/HEV

Industrial Control

Consumer Appliances

Wind power, PV, Energy Storage

Traction

Military & Avionics

Others

Companies Profiled:

Infineon

Mitsubishi Electric (Vincotech)

Fuji Electric

Semikron Danfoss

Hitachi Energy

Bosch

onsemi

Toshiba

Littelfuse (IXYS)

Microchip (Microsemi)

STMicroelectronics

Vishay

Denso

SanRex Corporation

Cissoid

MagnaChip

Rohm

Renesas Electronics

StarPower Semiconductor

BYD

Zhuzhou CRRC Times Electric

Hangzhou Silan Microelectronics

MacMic Science & Technology

China Resources Microelectronics Limited

Yangzhou Yangjie Electronic Technology

EcoSemitek

United Nova Technology

Grecon Semiconductor (Shanghai)

Poseico S.p.A.

ZhiXin Semiconductor

NJSM Electronics

Leadrive Technology

Archimedes Semiconductor (Hefei)

Key Questions Answered:

1. How big is the global IGBT market?
2. What is the demand of the global IGBT market?
3. What is the year over year growth of the global IGBT market?
4. What is the production and production value of the global IGBT market?
5. Who are the key producers in the global IGBT market?
6. What are the growth factors driving the market demand?

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