

Global Discrete Power Device Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Discrete Power Device market size was valued at USD 36300 million in 2023 and is forecast to a readjusted size of USD 59600 million by 2030 with a CAGR of 7.3% during review period.

Discrete power devices refer to electronic devices with individual functions and functions that cannot be disassembled. According to different chip structures and functions, they can be divided into diodes, triodes, bridge rectifiers, thyristors, etc., and can be divided from the perspective of power dissipation (or rated current) For small signal devices, power devices.

Discrete power devices are electronic devices based on semiconductor materials with fixed single characteristics and functions. The device is mainly composed of a chip, a lead/frame, and a plastic casing. The chip determines device functions, such as rectification, voltage stabilization, switching, protection, etc. The lead/frame realizes the connection between the chip and the external circuit and the heat export. Provide protection for the chip and internal structure, ensure the stable realization of its functions, and are highly related to core performance such as heat dissipation.

The key manufacturers of discrete power devices worldwide are Infineon, On Semiconductor, ST Microelectronics, Mitsubishi Electric (Vincotech), Nexperia, Vishay Intertechnology, Toshiba, Fuji Electric, Rohm, etc. The top three producers have a total market share of 35%, and the largest producer is Nexperia, with a 15% share. The global origins are mainly located in North America, Europe, China, Japan, Taiwan, etc. Among them, Europe is the largest production region with 30% of the market share. In terms of product categories, IGBT and MOSFET both have a high market share, with a

total market share of 70%. In terms of its applications, the automotive is its number one application, with a market share of 35%; followed by industrial control and grid and energy industries.

The Global Info Research report includes an overview of the development of the Discrete Power Device industry chain, the market status of Industrial Control (Diodes, IGBT), Automotive (Diodes, IGBT), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Discrete Power Device.

Regionally, the report analyzes the Discrete Power Device 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 Discrete Power Device market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Discrete Power Device 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 Discrete Power Device 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 sales quantity (M Pcs), revenue generated, and market share of different by Type (e.g., Diodes, IGBT).

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 Discrete Power Device market.

Regional Analysis: The report involves examining the Discrete Power Device 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 Discrete Power Device market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Discrete Power Device:

Company Analysis: Report covers individual Discrete Power Device manufacturers, 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 Discrete Power Device. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Industrial Control, Automotive).

Technology Analysis: Report covers specific technologies relevant to Discrete Power Device. It assesses the current state, advancements, and potential future developments in Discrete Power Device areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Discrete Power Device 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

Discrete Power Device 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 volume and value.

Market segment by Type

Diodes

IGBT

MOSFET

BJT

Thyristor

Market segment by Application

Industrial Control

Automotive

Consumer Electronics

Communication

Grid and Energy

Others

Major players covered

Infineon

ON Semiconductor

ST Microelectronics

Mitsubishi Electric (Vincotech)

Nexperia

Vishay Intertechnology

Toshiba

Fuji Electric

Rohm

Renesas Electronics

Diodes Incorporated

Littelfuse (IXYS)

Alpha & Omega Semiconductor

SEMIKRON Danfoss

Hitachi Power Semiconductor Device

Microchip

Sanken Electric

Semtech

MagnaChip

Bosch

Texas Instruments

KEC Corporation

Cree (Wolfspeed)

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StarPower

NCEPOWER

Hangzhou Li-On Microelectronics Corporation

Jiangsu Jiejie Microelectronics

OmniVision Technologies

Suzhou Good-Ark Electronics

Zhuzhou CRRC Times Electric

WeEn Semiconductors

Changzhou Galaxy Century Microelectronics

MacMic Science & Technolog

BYD Semiconductor

Hubei TECH Semiconductors

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

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

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

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Discrete Power Device product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Discrete Power Device, with price, sales, revenue and global market share of Discrete Power Device from 2019 to 2024.

Chapter 3, the Discrete Power Device competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Discrete Power Device breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Discrete Power Device market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Discrete Power Device.

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customers, research findings and conclusion.

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