

# Global Semiconductor Discrete Devices 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 Semiconductor Discrete Devices 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 global semiconductor discrete production region mainly distributes in North America, Europe, China, Japan, South Korea, Taiwan (China), Southeast Asia, etc, and high-end products are mainly dominated by European, North American and Chinese manufacturers, the key manufacturers are Infineon, ON Semiconductor, ST Microelectronics, Mitsubishi Electric (Vincotech), Nexperia, Vishay Technology, Toshiba, Fuji Electric, Renesas Electronics and Diodes Incorporated. The top four

vendors together account for more than 35% of the market share, with the largest vendor being Nexperia, accounting for 15% of the market share. In terms of product classification, MOSFET have the largest market share with 35%, followed by IGBT and diodes. In terms of its application areas, the automotive industry is its top application area, accounting for 35% of the market share, followed by the grid and energy sector, accounting for 25%.

The Global Info Research report includes an overview of the development of the Semiconductor Discrete Devices 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 Semiconductor Discrete Devices.

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

#### Key Features:

The report presents comprehensive understanding of the Semiconductor Discrete Devices 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 Semiconductor Discrete Devices 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 (Million Pieces), 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 Semiconductor Discrete Devices market.

**Regional Analysis:** The report involves examining the Semiconductor Discrete Devices

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 Semiconductor Discrete Devices market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Semiconductor Discrete Devices:

**Company Analysis:** Report covers individual Semiconductor Discrete Devices 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 Semiconductor Discrete Devices. 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 Semiconductor Discrete Devices. It assesses the current state, advancements, and potential future developments in Semiconductor Discrete Devices areas.

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

Semiconductor Discrete Devices 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)

PANJIT Group

Unisonic Technologies (UTC)

Niko Semiconductor

Hangzhou Silan Microelectronics

Yangzhou Yangjie Electronic Technology

China Resources Microelectronics Limited

Jilin Sino-Microelectronics

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

*Global Semiconductor Discrete Devices Market 2024 by Manufacturers, Regions, Type and Application, Forecast to...*

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 Semiconductor Discrete Devices product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Semiconductor Discrete Devices 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 Semiconductor Discrete Devices 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 Semiconductor Discrete Devices.

Chapter 14 and 15, to describe Semiconductor Discrete Devices sales channel, distributors, customers, research findings and conclusion.



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