

Global Discrete Power Device Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Discrete Power Device market size was valued at US\$ 43330 million in 2024 and is forecast to a readjusted size of USD 71440 million by 2031 with a CAGR of 7.5% 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.

This report is a detailed and comprehensive analysis for global Discrete Power Device market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Discrete Power Device market size and forecasts, in consumption value (\$ Million), sales quantity (M Pcs), and average selling prices (USD/K Pcs), 2020-2031

Global Discrete Power Device market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (M Pcs), and average selling prices (USD/K Pcs), 2020-2031

Global Discrete Power Device market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (M Pcs), and average selling prices (USD/K Pcs), 2020-2031

Global Discrete Power Device market shares of main players, shipments in revenue (\$ Million), sales quantity (M Pcs), and ASP (USD/K Pcs), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Discrete Power Device

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Discrete Power Device market based on

the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Infineon, ON Semiconductor, ST Microelectronics, Mitsubishi Electric (Vincotech), Nexperia, Vishay Intertechnology, Toshiba, Fuji Electric, Rohm, Renesas Electronics, etc.

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

Market Segmentation

Discrete Power Device market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

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

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 quantity, revenue, and global market share of Discrete Power Device from 2020 to 2025.

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 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

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 2020 to 2025. and Discrete Power Device market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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.

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

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