

Global Discrete Power Device Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Discrete Power Device market size will reach 48,641 Million USD in 2025 and is projected to reach 80,803 Million USD by 2032, with a CAGR of 7.52% (2025-2032). Notably, the China Discrete Power Device market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

A discrete power device refers to an individual semiconductor component designed to handle and control significant amounts of electrical power within electronic circuits. These devices, such as power transistors and power diodes, are distinct from integrated circuits and are often used in applications where higher power levels or voltage requirements are essential, such as motor control, power amplification, voltage regulation, and switching. Discrete power devices can handle greater currents and voltage levels compared to smaller-scale integrated circuits, making them crucial for efficiently managing power distribution and conversion in a wide range of electronic systems and industrial applications.

The major global manufacturers of Discrete Power Device include 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, Cree (Wolfspeed), KEC Corporation, PANJIT Group, Niko Semiconductor, Unisonic Technologies (UTC), 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, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Discrete Power Device. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Discrete Power Device market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Discrete Power Device market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Discrete Power Device industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from

various markets monitoring database.

Global Key Manufacturers of Discrete Power Device Include:

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

Cree (Wolfspeed)

KEC Corporation

PANJIT Group

Niko Semiconductor

Unisonic Technologies (UTC)

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

Discrete Power Device Product Segment Include:

Diodes

IGBT

MOSFET

BJT

Thyristor

Discrete Power Device Product Application Include:

Industrial Control

Automotive

Consumer Electronics

Communication

Grid and Energy

Others

Chapter Scope

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

Chapter 2: Global Discrete Power Device Industry PESTEL Analysis

Chapter 3: Global Discrete Power Device Industry Porter's Five Forces Analysis

Chapter 4: Global Discrete Power Device Major Regional Market Size (Revenue, Sales, Price) and Forecast Analysis

Chapter 5: Global Discrete Power Device Market Size and Forecast by Type and Application Analysis

Chapter 6: North America Discrete Power Device Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

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