

Global Discrete Power Device Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Discrete Power Device market size is expected to reach \$ 59600 million by 2029, rising at a market growth of 7.3% CAGR during the forecast period (2023-2029).

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.

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.

This report studies the global Discrete Power Device production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Discrete Power Device, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Discrete Power Device that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Discrete Power Device total production and demand, 2018-2029, (M Pcs)

Global Discrete Power Device total production value, 2018-2029, (USD Million)

Global Discrete Power Device production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (M Pcs)

Global Discrete Power Device consumption by region & country, CAGR, 2018-2029 & (M Pcs)

U.S. VS China: Discrete Power Device domestic production, consumption, key domestic manufacturers and share

Global Discrete Power Device production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (M Pcs)

Global Discrete Power Device production by Type, production, value, CAGR, 2018-2029, (USD Million) & (M Pcs)

Global Discrete Power Device production by Application production, value, CAGR, 2018-2029, (USD Million) & (M Pcs)

This reports profiles key players in the global Discrete Power Device 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, ON Semiconductor, ST

Microelectronics, Mitsubishi Electric (Vincotech), Nexperia, Vishay Intertechnology, Toshiba, Fuji Electric and Rohm, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

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

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (M Pcs) and average price (USD/K Pcs) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Discrete Power Device Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Discrete Power Device Market, Segmentation by Type

Diodes

IGBT

MOSFET

BJT

Thyristor

Global Discrete Power Device Market, Segmentation by Application

Industrial Control

Automotive

Consumer Electronics

Communication

Grid and Energy

Others

Companies Profiled:

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

Key Questions Answered

1. How big is the global Discrete Power Device market?
2. What is the demand of the global Discrete Power Device market?

3. What is the year over year growth of the global Discrete Power Device market?
4. What is the production and production value of the global Discrete Power Device market?
5. Who are the key producers in the global Discrete Power Device market?
6. What are the growth factors driving the market demand?

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