

Global Semiconductor Discrete Devices Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Semiconductor Discrete Devices 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 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%.

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 Semiconductor Discrete Devices production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Semiconductor Discrete Devices, 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 Semiconductor Discrete Devices that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Semiconductor Discrete Devices total production and demand, 2018-2029, (Million Pieces)

Global Semiconductor Discrete Devices total production value, 2018-2029, (USD Million)

Global Semiconductor Discrete Devices production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Million Pieces)

Global Semiconductor Discrete Devices consumption by region & country, CAGR, 2018-2029 & (Million Pieces)

U.S. VS China: Semiconductor Discrete Devices domestic production, consumption, key domestic manufacturers and share

Global Semiconductor Discrete Devices production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Million Pieces)

Global Semiconductor Discrete Devices production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Million Pieces)

Global Semiconductor Discrete Devices production by Application production, value, CAGR, 2018-2029, (USD Million) & (Million Pieces)

This reports profiles key players in the global Semiconductor Discrete Devices 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 Semiconductor Discrete Devices market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Pieces) and average price (US\$/K Pieces) 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 Semiconductor Discrete Devices Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semiconductor Discrete Devices Market, Segmentation by Type

Diodes

IGBT

MOSFET

BJT

Thyristor

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

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