

Global Small Signal 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 Small Signal Discrete Devices market size was valued at US\$ 7789 million in 2023 and is forecast to a readjusted size of USD 12630 million by 2030 with a CAGR of 7.2% during review period.

Discrete devices are a type of electronic components with a single and indivisible function in the electronics field. According to their chip structure and functional characteristics, they can be subdivided into various types such as semiconductor diodes, triodes, bridge rectifiers and thyristors. From the perspective of dissipated power (or rated current), discrete devices can be divided into two categories: small signal devices (or small power devices) and power devices.

As a basic component of the electronics industry, the core of semiconductor discrete devices is to use semiconductor materials to achieve a specific single function. These devices are usually composed of three major components: chip, lead/frame and plastic shell: the chip is the core of the device function, which determines the specific functions of the device such as rectification, voltage regulation, switching or protection; the lead/frame is responsible for connecting the chip to the external circuit and effectively exporting heat; the plastic shell provides necessary protection for the chip and its internal structure to ensure the stability of the device function, and is closely related to the heat dissipation performance.

Small signal discrete devices, that is, semiconductor devices with a rated current less than 1A or a rated power less than 1W, are very suitable for use in small current circuits due to their low power consumption. Through clever combination and connection with other electronic components (such as resistors, capacitors, inductors, etc.), small signal discrete devices can construct circuit systems with multiple functions such as switching

control, freewheeling, signal modulation (such as wave building, limiting, clamping), voltage stabilization, pulse generation and electrostatic protection, providing solid support for the stable operation of modern electronic equipment.

The main companies in the field of semiconductor power devices are IDM manufacturers and foundry manufacturers, among which IDM manufacturers include Infineon, NXP, ON, Microchip, ST, Toshiba, Silan, Yangjie Technology, etc. In terms of wafer process, compared with foreign countries, China is mainly 4&6 inches, and is relatively behind international leading companies in terms of process technology, product performance and market share. In the small signal MOSFET segment, international companies occupy a leading position, and the top 5 companies are Nexperia, Onsemi, Vishay, ROHM and Toshiba.

The future market trend of small signal devices is mainly driven by the following factors:

1. Policy support is the core driving force for the development of the semiconductor industry. Semiconductor discrete devices belong to the semiconductor sub-industry, and their development will also be vigorously promoted by the country. At the same time, the country has successively introduced a number of industrial support policies, which have played a positive role in supporting and encouraging the development of the semiconductor discrete device industry.
2. The global penetration rate of new energy vehicles continues to increase. China, Europe, North America, Japan and South Korea, etc., are all vigorously promoting new energy vehicles.
3. Semiconductor discrete devices are basic devices in the electronics industry and have a broad downstream application market. They are widely used in computers and peripherals, household appliances, adapters and power supplies, network communications, automotive electronics, industrial control and other fields. The development of the semiconductor discrete device industry is mainly driven by the development of the electronic terminal market. As the shipment volume of electronic terminal products continues to increase and the intelligence rate of terminal products continues to increase, the scale of the semiconductor discrete device industry has continued to expand and the industry technology has continued to improve. The rapid development of downstream emerging markets has provided opportunities for my country's semiconductor discrete device industry to surpass others, and will also drive the continuous increase in demand for semiconductor discrete device products.

This report is a detailed and comprehensive analysis for global Small Signal Discrete Devices 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 2024, are provided.

Key Features:

Global Small Signal Discrete Devices market size and forecasts, in consumption value (\$ Million), sales quantity (Million Pcs), and average selling prices (USD/K Pcs), 2019-2030

Global Small Signal Discrete Devices market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Pcs), and average selling prices (USD/K Pcs), 2019-2030

Global Small Signal Discrete Devices market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Pcs), and average selling prices (USD/K Pcs), 2019-2030

Global Small Signal Discrete Devices market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Pcs), and ASP (USD/K Pcs), 2019-2024

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 Small Signal Discrete Devices

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 Small Signal Discrete Devices 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 Nexperia, NXP Semiconductor, Vishay, Onsemi, Toshiba, ROHM, PANJIT, Diodes Incorporated, TSC, Kyocera AVX, etc.

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

Market Segmentation

Small Signal 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. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- Small Signal Switching Diodes
- Small Signal Schottky Diodes
- Small Signal Zener Diodes
- Small Signal Transistors
- Small Signal MOSFETs

Market segment by Application

- Consumer Electronics
- Communication
- Automotive Electronics
- Industrial
- Others

Major players covered

- Nexperia
- NXP Semiconductor
- Vishay
- Onsemi
- Toshiba
- ROHM
- PANJIT
- Diodes Incorporated
- TSC
- Kyocera AVX
- Littelfuse (IXYS)
- Microchip (Microsemi)
- Infineon
- Renesas Electronics
- Fuji Electric
- ST Microelectronics
- Yangzhou Yangjie Electronic Technology
- JCET
- LRC
- Hangzhou Silan
- Beijing YDME
- Suzhou GOOD-ARK
- Jiangsujiejie Microelectronics
- Changzhou Galaxy Century Micro-electronics

- OmniVision Group
- Micro Commercial Components (MCC)

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

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

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

Chapter 4, the Small Signal 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 by Application, with sales market share and growth rate by Type, by 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 2019 to 2024. and Small Signal Discrete Devices market forecast, by regions, by Type, and by 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 Small Signal Discrete Devices.

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

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