

Global Crystal Diodes 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 Crystal Diodes market size was valued at US\$ 12810 million in 2024 and is forecast to a readjusted size of USD 18760 million by 2031 with a CAGR of 5.7% during review period.

The main feature of a crystal diode is an electronic component that has a nonlinear current-voltage characteristic and only transmits current in one direction. It is a device with 2 terminals joined by 1 part number and has the property of making current flow or not flowing according to the direction of the applied voltage. The crystal diode is a PN junction formed by a p-type semiconductor and an n-type semiconductor, and a space charge layer is formed on both sides of the interface, and a self-built electric field is built. When there is no applied voltage, the diffusion current caused by the difference in carrier concentration on both sides of the PN junction is equal to the drift current caused by the self-built electric field and is in an electrical equilibrium state.

An electrical diode is an element of semiconductor material with two terminals that, in theory, allow current to flow easily in one direction but block it in the other. A diode can be thought of as a switch that controls the flow of electrons through a circuit. In all consumer electronics categories, electronics are getting smaller and smaller. All electronics manufacturers strive to produce products that are as small as possible, use the least amount of power, and deliver the most power. Therefore, there is a growing demand for novel and unique diodes. There is a growing demand for cell phones that can perform multiple functions such as FM radio, MP3 player, MP4 player, portable TV, voice recorder, camera and even projector. As the number of signals increases, so does the need for signal routing solutions. Thanks to these ideas, handset designers will likely continue to push for smaller form factors while including improved features in their designs, which calls for smaller and better functioning diodes. Due to this technical

requirement, the demand for diodes is constantly increasing. With the growing demand for electric vehicles, the diode market is expanding. A variety of diodes are used in the production of electric vehicles. The International Energy Agency (IEA) predicts that sales of electric vehicles will reach 6.6 million in 2021, more than double the figure in 2020. In 2021, electric vehicles will account for about 9% of the global car market, more than doubling their market share from the previous year. Increasing utilization of laser diodes across a range of end-use industries is expected to drive market expansion. The use of laser diodes in the aerospace and defense industry will increase due to technological advancements. The rise of the aerospace and military industry is driving the demand for diodes, which in turn is fueled by favorable government laws that encourage the adoption of complex technologies and technological breakthroughs.

This report is a detailed and comprehensive analysis for global Crystal Diodes 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 Crystal Diodes market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Crystal Diodes market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Crystal Diodes market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Crystal Diodes market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 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 Crystal Diodes

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 Crystal Diodes 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 ABB, ST Microelectronics, Murata, NTE Electronics, Poseico, Microsemi, Panasonic, Hitachi, ON Semiconductor, Diodes Inc, etc.

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

Market Segmentation

Crystal Diodes 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

Germanium

Silicon

Others

Market segment by Application

Radio Demodulation

Power Conversion

Reverse Voltage Protection

Overvoltage Protection

Others

Major players covered

ABB

ST Microelectronics

Murata

NTE Electronics

Poseico

Microsemi

Panasonic

Hitachi

ON Semiconductor

Diodes Inc

Crydom

American Microsemiconductor

SEMICOA

Opto Diode Corporation

API Technologies

Vishay

Littelfuse

Infineon Technologies

Avago

NXP

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 Crystal Diodes product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Crystal Diodes, with price, sales quantity, revenue, and global market share of Crystal Diodes from 2020 to 2025.

Chapter 3, the Crystal Diodes competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Crystal Diodes 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 Crystal Diodes 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 Crystal Diodes.

Chapter 14 and 15, to describe Crystal Diodes sales channel, distributors, customers, research findings and conclusion.

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