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Global Diode and Thyristors Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Diode and Thyristors market size was valued at US$ 10550 million in 2025 and is forecast to a readjusted size of US$ 17490 million by 2032 with a CAGR of 7.6% during review period.

Important electronic components utilized in a variety of industries include diodes and thyristors. A semiconductor device known as a diode only permits one direction of current flow. It is a key element in many electrical circuits and finds use in a variety of devices, including power supplies, radio receivers, and LED lights. The term diode market refers to the entire market for diodes, both generic and specialised. A thyristor, commonly referred to as an SCR or silicon-controlled rectifier, is a common semiconductor component in power electronics. It is a kind of switch that has the capacity to regulate the movement of electric current and can be switched on and off at predetermined intervals.

As the necessity for environmentally friendly transportation becomes more widely recognized, electric vehicles are becoming more and more common. In order to effectively convert power, control motors, and manage batteries, these vehicles' power electronics systems depend on diodes and thyristors. To rectify AC electricity into DC power, which is required to charge the battery of an electric car, diodes are utilized. Additionally, they are employed in the DC-DC converter, which alters the voltage to meet the needs of various car parts. On the other hand, the motor control systems of electric vehicles use thyristors. They are perfect for regulating the speed and torque of an electric motor due to their ability to withstand large currents and voltages. Thyristors are also employed in regenerative braking systems, which assist transform the vehicle's kinetic energy into electrical energy that can be stored in the battery. In the upcoming

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years, as demand for electric vehicles rises, it is anticipated that the market for diodes and thyristors would expand dramatically.

This report is a detailed and comprehensive analysis for global Diode and Thyristors 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 Diode and Thyristors market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Diode and Thyristors market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Diode and Thyristors market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Diode and Thyristors market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2021-2026

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 Diode and Thyristors

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

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This report profiles key players in the global Diode and Thyristors 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 JieJie Microelectronics, SINO-Microelectronics, Semikron, Central Semiconductor, Shindengen Electric, WeEn Semiconductors, Diodes Incorporated, ABB Ltd, Analog Devices, Inc, Eaton Corporation Plc, etc.

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

Market Segmentation

Diode and Thyristors market is split by Type and by Application. For the period 2021-2032, 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

Diodes

Thyristors

Market segment by Application

Communications

Consumer Electronics

Automotive

Computer and Computer Peripherals

Others

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Major players covered

JieJie Microelectronics

SINO-Microelectronics

Semikron

Central Semiconductor

Shindengen Electric

WeEn Semiconductors

Diodes Incorporated

ABB Ltd

Analog Devices, Inc

Eaton Corporation Plc

Fuji Electric Co., Ltd

Infineon Technologies AG

SanRex

ON Semiconductor

Mitsubishi Electric

STMicroelectronics

Vishay

Renesas Electronics

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Littelfuse

Sanken Electric

Toshiba

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 Diode and Thyristors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Diode and Thyristors, with price, sales quantity, revenue, and global market share of Diode and Thyristors from 2021 to 2026.

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

Chapter 4, the Diode and Thyristors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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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 2021 to 2032.

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 2021 to 2026.and Diode and Thyristors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Diode and Thyristors.

Chapter 14 and 15, to describe Diode and Thyristors sales channel, distributors, customers, research findings and conclusion.

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