

Global SiC Schottky Rectifier Diode 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 SiC Schottky Rectifier Diode market size was valued at US\$ 471 million in 2024 and is forecast to a readjusted size of USD 2220 million by 2031 with a CAGR of 23.6% during review period.

Silicon Carbide schottky diodes have the advantage of silicon carbide compound's superior physical characteristics over Si, with 4 times better dynamic characteristics and 15% less forward voltage. They have the lowest reverse recovery time (trr) compared to the various types of fast recovery, ultrafast recovery, and super-fast recovery diodes. They also have the lowest forward voltage drop (VF). Silicon carbide is a compound semiconductor with more high level power characteristics than silicon, including a bandgap approximately three times greater, a dielectric breakdown field 10 times higher, and a thermal coefficient three times larger.

In recent years, silicon-carbide based Schottky diodes have become more commonplace as an alternative to their silicon-based counterparts.

Currently SiC schottky diodes are mainly used in Automotive & EV/HEV, EV Charging, Industrial Motor/Drive, PV, Energy Storage, Wind Power, UPS, Data Center & Server, etc.

Automotive is the largest market, hold a share over 65%, mainly used in OBC, DC/DC Converter, etc.

Global new energy vehicles continue to grow rapidly. In 2023, the total sales of new energy vehicles in the world reached 14.65 million, a simultaneous increase of 35.4%.

Among them, China's new energy vehicle sales reached 9.495 million, accounting for 64.8% of global sales. The production and sales of new energy vehicles have ranked first in the world for eight consecutive years. In 2023, the sales of new energy vehicles in the United States and Europe were 2.94 million and 1.46 million respectively, with year-on-year growth rates of 18.3% and 48.0% respectively.

Currently the SiC schottky diodes market is dominated by few manufacturers, STMicroelectronics, Infineon, Wolfspeed, Rohm, onsemi, San'an Optoelectronics, etc.

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

Global SiC Schottky Rectifier Diode 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 SiC Schottky Rectifier Diode 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 SiC Schottky Rectifier Diode 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 SiC Schottky Rectifier Diode

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 SiC Schottky Rectifier Diode 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 STMicroelectronics, Infineon, Wolfspeed, Rohm, onsemi, Microchip (Microsemi), Fuji Electric, Navitas (GeneSiC), Toshiba, Qorvo (UnitedSiC), etc.

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

Market Segmentation

SiC Schottky Rectifier Diode 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

650V SiC SBD

1200V SiC SBD

Others

Market segment by Application

Automotive & EV/HEV

EV Charging

Industrial Motor/Drive

PV, Energy Storage, Wind Power

UPS, Data Center & Server

Rail Transport

Others

Major players covered

STMicroelectronics

Infineon

Wolfspeed

Rohm

onsemi

Microchip (Microsemi)

Fuji Electric

Navitas (GeneSiC)

Toshiba

Qorvo (UnitedSiC)

San'an Optoelectronics

Littelfuse (IXYS)

CETC 55

WeEn Semiconductors

BASiC Semiconductor

SemiQ

Diodes Incorporated

KEC Corporation

PANJIT Group

Nexperia

Vishay Intertechnology

Zhuzhou CRRC Times Electric

China Resources Microelectronics Limited

Yangzhou Yangjie Electronic Technology

Changzhou Galaxy Century Microelectronics

Cisoid

SK powertech

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 SiC Schottky Rectifier Diode product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of SiC Schottky Rectifier Diode, with price, sales quantity, revenue, and global market share of SiC Schottky Rectifier Diode from 2020 to 2025.

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

Chapter 4, the SiC Schottky Rectifier Diode 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 SiC Schottky Rectifier Diode 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 SiC Schottky Rectifier Diode.

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

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