

# Global SiC Diodes Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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## Abstracts

According to our (Global Info Research) latest study, the global SiC Diodes market size was valued at USD 457.9 million in 2022 and is forecast to a readjusted size of USD 2324.8 million by 2029 with a CAGR of 26.1% 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.

The key players of SiC diodes (SiC SBD) are STMicroelectronics, Infineon, Wolfspeed, Rohm, onsemi, Microchip (Microsemi), and San'an Optoelectronics, etc. The top five players hold a share over 70 percent.

The Global Info Research report includes an overview of the development of the SiC Diodes industry chain, the market status of Automotive & EV/HEV (SiC Diodes Discrete, SiC Diodes Power Module), EV Charging (SiC Diodes Discrete, SiC Diodes Power Module), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of SiC Diodes.

Regionally, the report analyzes the SiC Diodes markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global SiC

Diodes market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the SiC Diodes market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the SiC Diodes industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., SiC Diodes Discrete, SiC Diodes Power Module).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the SiC Diodes market.

**Regional Analysis:** The report involves examining the SiC Diodes market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the SiC Diodes market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to SiC Diodes:

**Company Analysis:** Report covers individual SiC Diodes manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards SiC Diodes This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Automotive & EV/HEV,

EV Charging).

**Technology Analysis:** Report covers specific technologies relevant to SiC Diodes. It assesses the current state, advancements, and potential future developments in SiC Diodes areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the SiC Diodes market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

### Market Segmentation

SiC Diodes market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

#### Market segment by Type

SiC Diodes Discrete

SiC Diodes Power Module

#### 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)

Mitsubishi Electric (Vincotech)

Semikron Danfoss

Fuji Electric

Navitas (GeneSiC)

Toshiba

Qorvo (UnitedSiC)

San'an Optoelectronics

Littelfuse (IXYS)

CETC 55

WeEn Semiconductors

BASiC Semiconductor

SemiQ

KEC Corporation

PANJIT Group

Nexperia

Vishay Intertechnology

Zhuzhou CRRC Times Electric

China Resources Microelectronics Limited

Yangzhou Yangjie Electronic Technology

Changzhou Galaxy Century Microelectronics

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

Chapter 2, to profile the top manufacturers of SiC Diodes, with price, sales, revenue and global market share of SiC Diodes from 2018 to 2023.

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

Chapter 4, the SiC Diodes breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

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 2017 to 2022. and SiC Diodes market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

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 Diodes.

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

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