

Global SiC Diodes Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global SiC Diodes market size is expected to reach \$ 2324.8 million by 2029, rising at a market growth of 26.1% CAGR during the forecast period (2023-2029).

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.

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.

This report studies the global SiC Diodes production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for SiC Diodes, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of SiC Diodes that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global SiC Diodes total production and demand, 2018-2029, (K Units)

Global SiC Diodes total production value, 2018-2029, (USD Million)

Global SiC Diodes production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global SiC Diodes consumption by region & country, CAGR, 2018-2029 & (K Units)

U.S. VS China: SiC Diodes domestic production, consumption, key domestic manufacturers and share

Global SiC Diodes production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Units)

Global SiC Diodes production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global SiC Diodes production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Units).

This reports profiles key players in the global SiC Diodes market based on the following parameters – company overview, production, value, 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), Mitsubishi Electric (Vincotech), Semikron Danfoss and Fuji Electric, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World SiC Diodes market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by

manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global SiC Diodes Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global SiC Diodes Market, Segmentation by Type

SiC Diodes Discrete

SiC Diodes Power Module

Global SiC Diodes Market, Segmentation by Application

Automotive & EV/HEV

EV Charging

Industrial Motor/Drive

PV, Energy Storage, Wind Power

UPS, Data Center & Server

Rail Transport

Others

Companies Profiled:

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

Key Questions Answered

1. How big is the global SiC Diodes market?
2. What is the demand of the global SiC Diodes market?
3. What is the year over year growth of the global SiC Diodes market?
4. What is the production and production value of the global SiC Diodes market?
5. Who are the key producers in the global SiC Diodes market?

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