

Global Silicon Carbide (SiC) Diodes Market Growth 2025-2031

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Abstracts

The global Silicon Carbide (SiC) Diodes market size is predicted to grow from US\$ 736 million in 2025 to US\$ 2923 million in 2031; it is expected to grow at a CAGR of 25.8% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

A silicon carbide (SiC) schottky diode is a semiconductor diode formed by the junction of a semiconductor with a metal. SiC Schottky barrier diodes have a much lower reverse leakage current than their Si counterparts and also a higher forward voltage. They significantly reduce losses and can therefore be used to increase system efficiency and reduce product size.

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.

LP Information, Inc. (LPI) ' newest research report, the "Silicon Carbide (SiC) Diodes Industry Forecast" looks at past sales and reviews total world Silicon Carbide (SiC) Diodes sales in 2024, providing a comprehensive analysis by region and market sector of projected Silicon Carbide (SiC) Diodes sales for 2025 through 2031. With Silicon Carbide (SiC) Diodes sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Silicon Carbide (SiC) Diodes industry.

This Insight Report provides a comprehensive analysis of the global Silicon Carbide (SiC) Diodes landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Silicon Carbide (SiC) Diodes portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Silicon Carbide (SiC) Diodes market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Silicon Carbide (SiC) Diodes and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Silicon Carbide (SiC) Diodes.

This report presents a comprehensive overview, market shares, and growth opportunities of Silicon Carbide (SiC) Diodes market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

650V SiC SBD

1200V SiC SBD

Others

Segmentation by Application:

Automotive & EV/HEV

EV Charging

Industrial Motor/Drive

PV, Energy Storage, Wind Power

UPS, Data Center & Server

Rail Transport

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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

Key Questions Addressed in this Report

What is the 10-year outlook for the global Silicon Carbide (SiC) Diodes market?

What factors are driving Silicon Carbide (SiC) Diodes market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Silicon Carbide (SiC) Diodes market opportunities vary by end market size?

How does Silicon Carbide (SiC) Diodes break out by Type, by Application?

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