

# Global Silicon Carbide Power Semiconductors Market Growth 2025-2031

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## Abstracts

The global Silicon Carbide Power Semiconductors market size is predicted to grow from US\$ 4449 million in 2025 to US\$ 13550 million in 2031; it is expected to grow at a CAGR of 20.4% 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.

Silicon Carbide (SiC) devices have emerged as the most viable candidate for next-generation, low-loss semiconductors due to its low ON resistance and superior high-temperature, high-frequency, and high-voltage performance when compared to silicon. SiC also allows designers to use fewer components, further reducing design complexity. The low ON resistance of SiC devices contribute to significantly lower energy consumption, allowing users to design environmentally friendly products and systems that reduce CO2 emissions.

This report studies the Silicon Carbide Power Semiconductors, include SiC modules, SiC MOSFET discretes, SiC diodes and SiC JFETs & FETs.

SiC MOSFETs eliminate tail current during switching, resulting in faster operation, reduced switching loss, and increased stabilization. Lower ON resistance and a compact chip size result in reduced capacitance and gate charge. In addition, SiC exhibits superior material properties, such as minimal ON-resistance increases, and enables greater package miniaturization and energy savings than silicon (Si) devices, in which the ON resistance can more than double with increased temperature.

Schottky barrier diodes (SBDs) feature a small total capacitive charge ( $Q_c$ ) that reduces switching loss while enabling high-speed switching operation. As such they are widely used in the PFC circuits of power supplies. In addition, unlike silicon-based fast recovery diodes where the  $t_{rr}$  increases with temperature, silicon carbide devices maintain constant characteristics, resulting in better performance. SiC Schottky barrier diodes provide greater reliability in power-conversion systems, making them ideal for battery chargers, solar panels for renewable energy, and electric vehicle charging stations.

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

Automotive is the largest market of silicon carbide (SiC) power devices, driven by demand from China, UAS, EU, and Japan. China is one of the world's largest automotive markets, and its growth potential remains high. In particular, high rates of growth for electric-powered vehicles make China one of the largest markets for electromobility.

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.

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

This Insight Report provides a comprehensive analysis of the global Silicon Carbide Power Semiconductors 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 Power Semiconductors portfolios and capabilities, market

entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Silicon Carbide Power Semiconductors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Silicon Carbide Power Semiconductors 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 Power Semiconductors.

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

### **Segmentation by Type:**

SiC MOSFET Modules

SiC MOSFET Discretes

SiC Diode/SBD

Others (SiC JFETs & FETs)

### **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

BYD Semiconductor

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

Diodes Incorporated

SanRex

Alpha & Omega Semiconductor

Bosch

KEC Corporation

PANJIT Group

Nexperia

Vishay Intertechnology

Zhuzhou CRRC Times Electric

China Resources Microelectronics Limited

StarPower

Yangzhou Yangjie Electronic Technology

Guangdong AccoPower Semiconductor

Changzhou Galaxy Century Microelectronics

Hangzhou Silan Microelectronics

Cissoid

SK powertech

InventChip Technology

Hebei Sinopack Electronic Technology

Oriental Semiconductor

Jilin Sino-Microelectronics

PN Junction Semiconductor (Hangzhou)

United Nova Technology

### **Key Questions Addressed in this Report**

What is the 10-year outlook for the global Silicon Carbide Power Semiconductors market?

What factors are driving Silicon Carbide Power Semiconductors market growth, globally and by region?

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

How do Silicon Carbide Power Semiconductors market opportunities vary by end market size?

How does Silicon Carbide Power Semiconductors break out by Type, by Application?

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