

# Global SiC Power Components Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global SiC Power Components market size was valued at US\$ 6158 million in 2025 and is forecast to a readjusted size of US\$ 21860 million by 2032 with a CAGR of 20.1% during review period.

This report studies the SiC Power Components, which include SiC MOSFET Modules, SiC MOSFET Discrettes, SiC SBD (Diode), and Others (SiC JFETs & FETs).

Silicon carbide MOSFETs have the characteristics of low on-resistance and small switching losses, which can reduce device losses and improve system efficiency, and are more suitable for high-frequency circuits. It is widely used in the fields of new energy vehicle motor controller, vehicle power supply, solar inverter, charging pile, UPS, PFC power supply and other fields.

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.

The SiC ecosystem (value chain) spans upstream raw-material and substrate suppliers (bulk SiC crystal growers and wafer makers), epitaxial (epi) wafer manufacturers, device fabs (front-end processing), power-module and packaging specialists, test & qualification services, and downstream system integrators/OEMs (automotive Tier-1s, inverter makers, datacenter PSU vendors). Upstream concentration and capacity (substrates/epi) are strategic bottlenecks that determine cost and yield; midstream

device makers add process IP (implantation, gate technology, trench or planar MOS structures) and qualification for automotive AEC-Q/TS standards; downstream players drive integration into modules and cooling/thermal management solutions. Leading device suppliers include STMicroelectronics, Infineon, Wolfspeed (Cree), ROHM, onsemi, Toshiba/Mitsubishi and several Chinese and Japanese challengers?competition has intensified as these players scale 150?200 mm wafer flows and pursue module partnerships. Industry developments to watch: widescale migration to 200 mm SiC manufacturing to lower unit cost (major vendors announced 200 mm roadmaps), consolidation and verticalization (some substrate and epi play acquisitions/alliances), push for higher reliability and automotive qualification, and system-level optimization (SiC + Si hybrid topologies, smarter packaging and cooling). Market forecasts show multi-year double-digit CAGR as SiC penetration grows in EV traction and renewables, even as supply and short-term demand cycles create volatility for specific producers.

This report is a detailed and comprehensive analysis for global SiC Power Components 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 Power Components market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global SiC Power Components market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global SiC Power Components market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global SiC Power Components market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

**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 Power Components
- 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 Power Components 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, BYD Semiconductor, Microchip (Microsemi), Mitsubishi Electric (Vincotech), Semikron Danfoss, Fuji Electric, etc.

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

**Market Segmentation**

SiC Power Components market is split by Type and by Application. For the period 2021-2032, 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

- SiC MOSFET Module
- SiC MOSFET Discrete
- SiC SBD
- Others (SiC JFETs & FETs)

## 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

BYD Semiconductor

Microchip (Microsemi)

Mitsubishi Electric (Vincotech)

Semikron Danfoss

Fuji Electric

Navitas (GeneSiC)

Toshiba

San'an Optoelectronics

Littelfuse

CETC 55

WeEn Semiconductors

BASiC Semiconductor

SemiQ

Diodes Incorporated

SanRex

Alpha & Omega Semiconductor

Bosch

GE Aerospace

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

Cisoid

Hebei Sinopack Electronic Technology

PN Junction Semiconductor (Hangzhou)

United Nova Technology

InventChip Technology

Leadrive Technology

HAIMOSIC (SHANGHAI)

Suzhou Sko Semiconductor

Shenzhen Aishite Technology

Suzhou Xizhi Technology

Archimedes Semiconductor (Hefei)

Grecon Semiconductor (Shanghai)

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 Power Components product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of SiC Power Components, with price, sales quantity, revenue, and global market share of SiC Power Components from 2021 to 2026.

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

Chapter 4, the SiC Power Components breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and SiC Power Components market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Power Components.

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

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