

# Global SiC Power Chip 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 Chip market size was valued at US\$ 6189 million in 2025 and is forecast to a readjusted size of US\$ 21771 million by 2032 with a CAGR of 19.6% during review period.

Silicon Carbide Power Chips are core power semiconductor devices manufactured on the basis of silicon carbide, a third-generation wide-bandgap semiconductor material, and are designed to perform efficient and reliable power conversion and control under high-voltage, high-temperature, high-frequency, and high-power-density operating conditions. Benefiting from the superior material properties of SiC, including high breakdown electric field, high thermal conductivity, high electron saturation drift velocity, and wide bandgap, these chips significantly reduce conduction loss and switching loss compared with conventional silicon-based devices, while also lowering cooling requirements and enabling more compact system designs. They are widely used to address efficiency, thermal management, size, and reliability challenges in electric vehicle drivetrains, onboard chargers, photovoltaic inverters, energy storage converters, industrial power supplies, and data center power systems. Typical product forms include discrete SiC MOSFET chips, SiC Schottky diode chips, and SiC bare dies for power modules. The technology originated from the long-term development of wide-bandgap semiconductor materials and advanced power electronics, with early applications mainly concentrated in high-end industrial, railway, and defense-related fields. As SiC substrate production, epitaxial growth, wafer fabrication, device design, and advanced packaging technologies have continued to improve, SiC power chips have rapidly expanded into commercial applications such as electric vehicles, renewable energy systems, and high-end industrial control. Upstream supply mainly involves key materials including SiC substrates, epitaxial wafers, photoresists, masks, sputtering targets, electronic gases, and wet chemicals, as well as semiconductor equipment and process

steps such as lithography, etching, ion implantation, thin-film deposition, inspection, dicing, and testing, together with supporting packaging materials and components such as DBC substrates, ceramic materials, bonding wires, leadframes, thermal management materials, and encapsulation compounds. In 2025, the global production capacity of silicon carbide power chips is estimated at approximately 600 million units, with sales volume reaching about 477 million units. The average selling price is around USD 12.6 per unit, and the gross profit margin of manufacturers is estimated to range from 30% to 40%.

The silicon carbide power chip market has moved beyond the early technology adoption stage and is now entering a phase of deeper application penetration. Electric vehicles remain the strongest demand driver, especially in traction inverters, onboard chargers, and DC/DC converters, where automakers and Tier 1 suppliers continue to prioritize higher efficiency, greater power density, and reduced system weight. At the same time, adoption is expanding across photovoltaic inverters, energy storage converters, industrial power supplies, and charging infrastructure, showing that the market is evolving from a mainly automotive story into a broader multi-application power electronics upgrade cycle. Recent moves by leading suppliers also show that competition is no longer limited to device performance alone, but increasingly includes supply security, packaging capability, automotive qualification, and system-level design support.

Looking ahead, the market is likely to develop along several clear lines. One is the continued shift toward higher-voltage platforms, faster switching, and higher integration to meet the needs of EV drivetrains, fast charging, storage systems, and advanced industrial equipment. Another is the move from discrete devices toward more modular, platform-based, and system-oriented solutions, making packaging, thermal design, and reliability engineering even more important. A third trend is the ongoing push toward larger wafer formats, vertically integrated manufacturing, and more localized supply chains to improve cost competitiveness, product consistency, and strategic resilience. Official announcements from major players show sustained investment in 200mm SiC manufacturing, end-to-end IDM models, advanced packaging, and long-term platform development, indicating that the long-term direction remains intact even as execution discipline becomes more critical.

Even so, the market still faces meaningful constraints. Upstream substrate availability, epitaxy quality, manufacturing yield, and device consistency continue to shape both cost and delivery capability, and broader adoption still depends on further improvements in defect control, process maturity, and packaging reliability. In addition, as earlier

expansion plans move into the production phase, some suppliers are facing pressure from heavy capital intensity, price competition, and inventory adjustments, which may create a mismatch between industry capacity buildup and the pace of end-market demand. Moreover, in some cost-sensitive or lower-power applications, silicon IGBTs, super-junction MOSFETs, and GaN devices remain viable alternatives, meaning SiC will not displace incumbent technologies at the same speed across all segments. Overall, the main growth drivers remain electrification, efficiency upgrading, and higher-voltage architectures, but wider market penetration will still depend on continued cost reduction, stronger supply-chain execution, and broader proof of system-level economic value.

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

Global SiC Power Chip 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 Chip 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 Chip 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 Chip

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 Chip 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 Chip 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 Modules

SiC MOSFET Discretets

SiC Diode/SBD

### Market segment by Wafer Size

4-inch SiC Power Chip

6-inch SiC Power Chip

8-inch SiC Power Chip

### Market segment by Voltage Range

Below 650V SiC Power Chip

650V-1200V SiC Power Chip

Above 1200V SiC Power Chip

#### Market segment by Application

Automotive & EV/HEV

EV Charging

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

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

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

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

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

Chapter 4, the SiC Power Chip 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 Chip 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 Chip.

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

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