

Global Silicon Carbide Chip Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Silicon Carbide Chip market size is expected to reach \$ 20166 million by 2032, rising at a market growth of 18.1% CAGR during the forecast period (2026-2032).

Silicon Carbide Chip refers to a semiconductor chip fabricated on silicon carbide, a wide-bandgap compound semiconductor material, and it usually includes SiC power device dies, discrete chips, and core dies used in power modules. It is designed to address the limitations of conventional silicon-based chips in high-voltage, high-frequency, high-temperature, and high-power-density applications, where silicon devices often suffer from higher switching losses, larger cooling requirements, and lower overall system efficiency. Owing to the intrinsic material advantages of SiC, such as higher breakdown electric field, better thermal capability, and suitability for high-temperature operation, SiC chips enable lower losses, higher switching frequency, improved power density, smaller system size, and better reliability in applications including electric vehicle traction inverters, onboard chargers, photovoltaic inverters, energy storage converters, industrial power supplies, railway systems, and fast charging equipment. The development of SiC chips can be traced to the broader evolution of wide-bandgap semiconductor research and high-power electronics, and commercialization accelerated as substrate growth, epitaxy, implantation, etching, and packaging technologies became more mature. The upstream supply chain typically covers high-purity silicon and carbon sources, SiC substrates, epitaxial wafers, photoresists, specialty gases, sputtering targets, ceramic substrates, bonding materials, packaging materials, and semiconductor production equipment, together with the supporting component and process ecosystem required for wafer fabrication, testing, and packaging. In 2025, the global production capacity of silicon carbide chips is estimated at approximately 600 million units, while global sales volume is expected to reach 467 million units. The average selling price is about USD 13.1 per unit, and the gross profit margin of manufacturers is estimated to

be in the range of 30% to 40%.

The silicon carbide chip market has moved beyond the early technology adoption phase and is now entering a stage of broader structural expansion, with demand still centered on electric vehicles, traction inverters, onboard chargers, photovoltaic inverters, energy storage converters, and high-efficiency industrial power systems. Competition is no longer defined only by device-level performance, but increasingly by the combined strength of substrate access, epitaxy, wafer processing, packaging, qualification capability, and supply assurance. Leading companies are deepening vertical integration and long-term supply strategies because customers are placing greater emphasis on reliability, consistency, qualification readiness, and system-level cost optimization. At the same time, the application scope of SiC chips is widening beyond core renewable-energy and vehicle-electrification uses, showing that the market is evolving from a niche high-performance segment into a broader platform technology for advanced power electronics.

Looking ahead, the market is likely to develop along three major paths. First, SiC chips will continue advancing toward higher efficiency, higher switching performance, and greater power density, supporting better energy conversion, faster charging, and more compact electrical architectures. Second, supply-chain coordination will become even more important, and integrated control over substrates, epitaxy, wafer fabrication, and module packaging will remain a major competitive advantage. Third, end-use diversification will continue, with demand extending beyond automotive and renewable energy into areas such as data-center power, AI-related power architectures, and other advanced industrial power applications. This means future growth is not expected to depend on a single downstream sector, but rather on the broader global shift toward electrification, decarbonization, and efficient power management across industries.

The main drivers behind this market are the rising need for better efficiency, smaller system size, improved thermal performance, and stronger reliability in end equipment, together with long-term demand created by vehicle electrification, renewable-energy integration, energy storage deployment, and upgrades in high-performance power systems. However, the market also faces clear constraints. SiC substrate and epitaxial production remain technically demanding, yield control is difficult, manufacturing stability requirements are strict, and customer qualification cycles are often long. In addition, macroeconomic pressure, capital intensity, and geopolitical uncertainty can affect expansion plans and supply-chain decisions. As more players enter the market, pricing pressure and competing technology paths are also likely to intensify. As a result, the companies most likely to strengthen their position will be those that can coordinate

materials, process technology, manufacturing, and customer engagement at the same time, rather than those relying on a single product advantage.

This report studies the global Silicon Carbide Chip production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Silicon Carbide Chip and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Silicon Carbide Chip that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Silicon Carbide Chip total production and demand, 2021-2032, (K Units)

Global Silicon Carbide Chip total production value, 2021-2032, (USD Million)

Global Silicon Carbide Chip production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Silicon Carbide Chip consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Silicon Carbide Chip domestic production, consumption, key domestic manufacturers and share

Global Silicon Carbide Chip production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Silicon Carbide Chip production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Silicon Carbide Chip production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Silicon Carbide Chip 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, 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.

Stakeholders would have ease in decision-making through various strategy matrices

used in analyzing the World Silicon Carbide Chip 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 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Silicon Carbide Chip Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Silicon Carbide Chip Market, Segmentation by Type:

SiC MOSFET Modules

SiC MOSFET Discrettes

SiC Diode/SBD

Global Silicon Carbide Chip Market, Segmentation by Wafer Size:

4-inch SiC Power Chip

6-inch SiC Power Chip

8-inch SiC Power Chip

Global Silicon Carbide Chip Market, Segmentation by Voltage Range:

Below 650V SiC Power Chip

650V-1200V SiC Power Chip

Above 1200V SiC Power Chip

Global Silicon Carbide Chip Market, Segmentation by Application:

Automotive & EV/HEV

EV Charging

PV, Energy Storage, Wind Power

UPS, Data Center & Server

Rail Transport

Others

Companies Profiled:

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

Key Questions Answered:

1. How big is the global Silicon Carbide Chip market?
2. What is the demand of the global Silicon Carbide Chip market?
3. What is the year over year growth of the global Silicon Carbide Chip market?
4. What is the production and production value of the global Silicon Carbide Chip market?
5. Who are the key producers in the global Silicon Carbide Chip market?
6. What are the growth factors driving the market demand?

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