

SiC Power Semiconductor Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Devices (SiC Discrete Devices and SiC Bare Die Devices), By Application (RF Devices & Cellular Base Station, Power Supply & Inverter, Power Grids, EV Motor, Industrial Motor Drives, Railway Traction, and Others), By End-User (Telecommunication, Energy & Power, Automotive, Industrial, Electronics, and Others), By Region, By Competition, 2019-2029F

<https://marketpublishers.com/r/SE56A7C38CE8EN.html>

Date: June 2024

Pages: 181

Price: US\$ 4,900.00 (Single User License)

ID: SE56A7C38CE8EN

Abstracts

Global SiC Power Semiconductor Market was valued at USD 1.62 Billion in 2023 and is anticipated to project robust growth in the forecast period with a CAGR of 26.86% through 2029. The SiC (Silicon Carbide) Power Semiconductor market refers to the global industry focused on the production, distribution, and application of power semiconductors made from silicon carbide materials. These semiconductors are integral components in power electronics and are increasingly replacing traditional silicon-based semiconductors in various applications due to their superior electrical properties. SiC Power Semiconductors offer several advantages over silicon-based counterparts, including higher breakdown electric field strength, higher thermal conductivity, and better performance at higher temperatures. These attributes enable SiC devices to operate at higher voltages, frequencies, and temperatures while maintaining efficiency and reliability. As a result, they are particularly suitable for applications demanding high efficiency and power density, such as electric vehicles (EVs), renewable energy systems, industrial motor drives, and power supplies.

Key Market Drivers:

Demand for High-Efficiency Power Electronics

The growing demand for high-efficiency power electronics is a significant market driver for Silicon Carbide (SiC) power semiconductors. As industries strive to enhance energy efficiency and reduce carbon emissions, the adoption of advanced power semiconductor technologies becomes imperative. SiC power semiconductors offer several advantages over traditional silicon-based devices, including lower switching losses, higher breakdown voltage, and superior thermal conductivity. These characteristics enable the development of power electronics systems that operate at higher frequencies, temperatures, and voltages while achieving greater efficiency. Industries such as automotive, renewable energy, industrial automation, and telecommunications are increasingly relying on SiC power semiconductors to improve the performance and efficiency of their products and systems. For instance, in electric vehicles (EVs), SiC-based power electronics enable faster charging, longer driving ranges, and higher efficiency, driving the market demand for SiC power semiconductors.

Expansion of Electric Vehicle (EV) Market

The rapid expansion of the electric vehicle (EV) market is driving the demand for SiC power semiconductors. As governments worldwide implement stricter emissions regulations and incentivize the adoption of electric vehicles, automotive manufacturers are investing heavily in electrification technologies. SiC power semiconductors play a crucial role in EV powertrains, enabling higher efficiency, faster charging, and longer driving ranges compared to traditional silicon-based solutions. Moreover, SiC-based inverters and onboard chargers contribute to reducing the overall size, weight, and cost of EV powertrain systems, further accelerating their adoption. With the EV market projected to grow significantly in the coming years, driven by both consumer demand and regulatory mandates, the demand for SiC power semiconductors is expected to experience substantial growth, presenting lucrative opportunities for manufacturers in the SiC power semiconductor market.

Emergence of 5G Technology

The emergence of 5G technology is driving the demand for SiC power semiconductors in telecommunications infrastructure. 5G networks require high-power and high-

frequency RF amplifiers support increased data bandwidth and lower latency. SiC power semiconductors offer superior performance characteristics such as higher power density, lower on-resistance, and faster switching speeds compared to silicon-based devices, making them well-suited for RF power amplification in 5G base stations and other telecommunications equipment. Additionally, SiC-based power amplifiers enable higher efficiency and longer battery life in 5G-enabled devices such as smartphones and IoT devices. As 5G deployment continues to expand globally, driven by the demand for ultra-fast and reliable wireless connectivity, the demand for SiC power semiconductors in the telecommunications sector is poised to grow significantly, presenting lucrative market opportunities for SiC semiconductor manufacturers.

Key Market Challenges

Cost and Manufacturing Challenges

One of the significant challenges facing the SiC power semiconductor market is the cost associated with its manufacturing. Silicon carbide (SiC) is inherently more expensive to produce than traditional silicon-based semiconductors due to the complexity of the manufacturing process and the high cost of raw materials. While the benefits of SiC, such as higher efficiency and power density, are well-recognized, the initial investment required for SiC manufacturing facilities and equipment remains a barrier for widespread adoption. Additionally, the yield rates of SiC devices are often lower compared to silicon devices, further impacting production costs. Manufacturers are continuously working on improving the manufacturing processes and reducing production costs to make SiC devices more competitive in the market. However, until significant advancements are made in cost reduction strategies, the high upfront investment and manufacturing expenses will continue to pose challenges for the widespread adoption of SiC power semiconductors.

Limited Supply Chain and Infrastructure

Another challenge for the SiC power semiconductor market is the limited supply chain and infrastructure compared to silicon-based semiconductors. The silicon semiconductor industry has a well-established supply chain, with numerous manufacturers, suppliers, and infrastructure supporting its production and distribution. In contrast, the SiC supply chain is relatively nascent and lacks the same level of maturity and scale. This limited ecosystem results in challenges such as longer lead times, constrained availability of materials, and higher procurement costs for SiC-based components. Furthermore, the infrastructure for SiC fabrication, testing, and packaging

is not as extensive as that for silicon devices, which can hinder the scalability and commercialization of SiC technology. Addressing these supply chain and infrastructure challenges requires significant investments in building robust supply networks, expanding manufacturing capacity, and fostering collaborations across the SiC ecosystem to meet the growing demand for SiC power semiconductors.

Key Market Trends

Expansion of Renewable Energy Generation

The expansion of renewable energy generation, particularly in solar and wind power, is another key trend fueling the SiC power semiconductor market. As countries strive to reduce reliance on fossil fuels and transition towards cleaner energy sources, there's a growing need for efficient power conversion systems to integrate renewable energy into the grid. SiC-based power electronics offer higher efficiency and reliability compared to conventional silicon-based devices, making them well-suited for renewable energy applications. SiC inverters enable higher power density, lower losses, and better thermal performance, resulting in improved energy conversion efficiency and reduced system costs over the long term. Additionally, SiC devices are capable of operating at higher temperatures, making them ideal for harsh environmental conditions often encountered in solar and wind power installations. With the global push towards renewable energy deployment and the declining cost of SiC technology, the market for SiC power semiconductors in the renewable energy sector is poised for significant growth and expansion.

Emergence of 5G Infrastructure

The emergence of 5G wireless technology is driving demand for SiC power semiconductors in telecommunications infrastructure. 5G networks require advanced power electronics to support higher data rates, lower latency, and increased connectivity density compared to previous generations. SiC-based RF power amplifiers and high-frequency switches offer superior performance characteristics, including higher power density, lower insertion loss, and higher operating frequencies, making them essential components for 5G base stations and infrastructure. SiC's ability to handle higher power levels and operate at elevated temperatures ensures reliable performance in demanding 5G network environments. Moreover, SiC devices enable the development of more compact and energy-efficient RF systems, reducing the footprint and power consumption of 5G infrastructure equipment. As 5G deployment accelerates worldwide and telecommunications companies invest in upgrading their

networks, the demand for SiC power semiconductors in the 5G market segment is expected to grow rapidly, presenting lucrative opportunities for semiconductor manufacturers and suppliers.

Growth of Industrial Automation and Power Electronics

The growth of industrial automation and power electronics is driving demand for SiC power semiconductors in diverse applications such as motor drives, industrial robots, and power supplies. As industries embrace automation to improve productivity, efficiency, and flexibility, there's a need for high-performance power electronics capable of handling high voltages and currents while minimizing energy losses. SiC devices offer significant advantages over traditional silicon-based components, including higher voltage ratings, lower conduction losses, and faster switching speeds, enabling more efficient and compact power conversion systems. Additionally, SiC's superior thermal conductivity allows for higher power densities and operating temperatures, making it well-suited for demanding industrial environments. As industries worldwide invest in modernizing their manufacturing processes and infrastructure, the demand for SiC power semiconductors in industrial automation and power electronics is expected to grow steadily, presenting lucrative opportunities for semiconductor manufacturers and suppliers to capitalize on this market trend.

Segmental Insights

Devices Insights

The SiC discrete devices segment held largest market share in 2023. The market for silicon carbide (SiC) power semiconductors, particularly SiC discrete devices, is being propelled by the escalating demand for high-power and high-temperature applications across various industries. SiC offers numerous advantages over traditional silicon-based semiconductors, making it well-suited for demanding environments where efficiency, reliability, and performance are paramount.

One of the key drivers behind the adoption of SiC discrete devices is their ability to operate at higher voltages and temperatures compared to silicon counterparts. SiC's wider bandgap enables devices to withstand higher electric fields, resulting in lower on-state resistance and faster switching speeds. This characteristic is particularly advantageous in power electronics applications where high voltages and frequencies are prevalent, such as in electric vehicles (EVs), renewable energy systems, and industrial motor drives.

In the automotive sector, the shift towards electrification is accelerating the demand for SiC discrete devices in EV powertrains. SiC-based power modules and discrete devices offer significant efficiency improvements over silicon-based solutions, enabling longer driving ranges and faster charging times for electric vehicles. Moreover, SiC's ability to operate at higher temperatures allows for more compact and lightweight power electronics systems, contributing to increased energy efficiency and extended battery life in EVs.

In the renewable energy sector, SiC discrete devices are playing a vital role in improving the performance and reliability of solar inverters and wind turbines. By leveraging SiC's superior thermal conductivity and high-temperature operation capabilities, manufacturers can design more efficient and compact power conversion systems. This results in higher energy yields, reduced maintenance costs, and improved grid stability, driving the adoption of SiC technology in the renewable energy market.

Regional Insights

Asia Pacific region held largest market share in 2023. The Asia Pacific region stands as a dynamic epicenter for the SiC Power Semiconductor Market, fueled by several compelling market drivers. The region's rapid industrialization and urbanization propel the demand for energy-efficient solutions across various sectors, including automotive, industrial, and consumer electronics. SiC power semiconductors offer unparalleled advantages over traditional silicon-based counterparts, such as higher efficiency, lower switching losses, and enhanced thermal conductivity, aligning perfectly with Asia Pacific's sustainability and energy conservation goals. The burgeoning electric vehicle (EV) market in countries like China, Japan, and South Korea presents a significant driver for SiC power semiconductors. With government initiatives promoting EV adoption and stringent emissions regulations, there's a pressing need for advanced power electronics to improve vehicle efficiency and range. SiC devices enable faster charging, higher power density, and increased reliability in EV drivetrains and charging infrastructure, thus accelerating the transition towards electrification. The Asia Pacific region's dominance in the semiconductor manufacturing landscape further propels the SiC power semiconductor market. With leading semiconductor foundries and OEMs investing heavily in SiC production and R&D, the region fosters innovation and drives down manufacturing costs, making SiC devices more accessible and attractive to a wider range of applications. Additionally, the region's robust ecosystem of research institutions, startups, and government support for technology development fosters

collaboration and accelerates the commercialization of SiC power semiconductors. Lastly, the escalating demand for renewable energy sources, such as solar and wind power, amplifies the need for efficient power conversion and management systems. SiC power semiconductors enable higher efficiency and reliability in renewable energy applications, facilitating the integration of clean energy into the grid and reducing carbon emissions. As Asia Pacific strives for energy security and sustainability, SiC power semiconductors emerge as a critical enabler of the region's transition towards a greener and more electrified future, driving significant market growth and adoption across diverse industries.

Key Market Players

SMART Global Holdings, Inc.

ROHM Co., Ltd.

Infineon Technologies AG

Semiconductor Components Industries, LLC

STMicroelectronics International N.V.

Microchip Technology Inc.

Littelfuse, Inc.

Texas Instruments Incorporated

NXP semiconductors N.V.

Report Scope:

In this report, the Global SiC Power Semiconductor Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

SiC Power Semiconductor Market, By Devices:

SiC Discrete Devices

SiC Bare Die Devices

%II%SiC Power Semiconductor Market, By Application:

RF Devices & Cellular Base Station

Power Supply & Inverter

Power Grids

EV Motor

Industrial Motor Drives

Railway Traction

Others

%II%SiC Power Semiconductor Market, By End-User:

Telecommunication

Energy & Power

Automotive

Industrial

Electronics

Others

%II%SiC Power Semiconductor Market, By Region:

North America

%II%United States

%II%Canada

%II%Mexico

Europe

%II%France

%II%United Kingdom

%II%Italy

%II%Germany

%II%Spain

%II%Belgium

Asia-Pacific

%II%China

%II%India

%II%Japan

%II%Australia

%II%South Korea

%II%Indonesia

%II%Vietnam

South America

%II%Brazil

%II%Argentina

%II%Colombia

%II%Chile

%II%Peru

Middle East & Africa

%II%South Africa

%II%Saudi Arabia

%II%UAE

%II%Turkey

%II%Israel

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global SiC Power Semiconductor Market.

Available Customizations:

Global SiC Power Semiconductor market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

%II%Detailed analysis and profiling of additional market players (up t%II%five).

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