

Global Silicon Carbide (SiC) Power Semiconductors Market Research Report 2026(Status and Outlook)

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Abstracts

This report studies Silicon Carbide (SiC) Power Semiconductors Devices, including SiC MOSFET Module, SiC MOSFET Discrete and SiC diode. 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. Silicon Carbide (SiC) devices are widely used in automotive, EV charging, industrial motor/drive, PV, energy storage, wind power, UPS, data center & server and rail transport, etc. In automotive, SiC power devices are mainly used in automotive main inverter, on-board chargers (OBC) and DC/DC converter. and the SiC power devices market was dominated by STMicroelectronics, Infineon, Wolfspeed, Rohm, Onsemi, BYD Semiconductor. SiC Power Devices are mainly used in Automotive Main Inverter, On-Board Chargers and DC/DC Converter. and the SiC power devices market was dominated by STMicroelectronics, Infineon, Wolfspeed, Rohm, Onsemi, BYD Semiconductor. Automotive is the largest market, hold a share over 65%, mainly used in OBC, DC/DC Converter, etc. 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.

The global Silicon Carbide (SiC) Power Semiconductors market size was estimated at USD 4021.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 21.90% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Silicon Carbide (SiC) Power Semiconductors market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Silicon Carbide (SiC) Power Semiconductors market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Silicon Carbide (SiC) Power Semiconductors market.

Global Silicon Carbide (SiC) Power Semiconductors Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can

significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

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

Market Segmentation (by Type)

SiC MOSFET Modules
SiC MOSFET Discretes
SiC Diode/SBD
Others (SiC JFETs & FETs)

Market Segmentation (by Application)

Automotive & EV/HEV
EV Charging
Industrial Motor/Drive
PV, Energy Storage, Wind Power
UPS, Data Center & Server
Rail Transport
Others

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Silicon Carbide (SiC) Power Semiconductors Market
Overview of the regional outlook of the Silicon Carbide (SiC) Power Semiconductors Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Silicon Carbide (SiC) Power Semiconductors Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Silicon Carbide (SiC) Power Semiconductors, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to

come
6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Silicon Carbide (SiC) Power Semiconductors

1.2 Key Market Segments

1.2.1 Silicon Carbide (SiC) Power Semiconductors Segment by Type

1.2.2 Silicon Carbide (SiC) Power Semiconductors Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 SILICON CARBIDE (SiC) POWER SEMICONDUCTORS MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Silicon Carbide (SiC) Power Semiconductors Market Size (M USD) Estimates and Forecasts (2020-2035)

2.1.2 Global Silicon Carbide (SiC) Power Semiconductors Sales Estimates and Forecasts (2020-2035)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 SILICON CARBIDE (SiC) POWER SEMICONDUCTORS MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global Silicon Carbide (SiC) Power Semiconductors Product Life Cycle

3.3 Global Silicon Carbide (SiC) Power Semiconductors Sales by Manufacturers (2020-2025)

3.4 Global Silicon Carbide (SiC) Power Semiconductors Revenue Market Share by Manufacturers (2020-2025)

3.5 Silicon Carbide (SiC) Power Semiconductors Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global Silicon Carbide (SiC) Power Semiconductors Average Price by Manufacturers (2020-2025)

- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Silicon Carbide (SiC) Power Semiconductors Market Competitive Situation and Trends
 - 3.8.1 Silicon Carbide (SiC) Power Semiconductors Market Concentration Rate
 - 3.8.2 Global 5 and 10 Largest Silicon Carbide (SiC) Power Semiconductors Players
- Market Share by Revenue
 - 3.8.3 Mergers & Acquisitions, Expansion

4 SILICON CARBIDE (SiC) POWER SEMICONDUCTORS INDUSTRY CHAIN ANALYSIS

- 4.1 Silicon Carbide (SiC) Power Semiconductors Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF SILICON CARBIDE (SiC) POWER SEMICONDUCTORS MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
 - 5.4.1 New Product Developments
 - 5.4.2 Mergers & Acquisitions
 - 5.4.3 Expansions
 - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
 - 5.5.1 Industry Policies Analysis
 - 5.5.2 Economic Environment Analysis
 - 5.5.3 Social Environment Analysis
 - 5.5.4 Technological Environment Analysis
- 5.6 Global Silicon Carbide (SiC) Power Semiconductors Market Porter's Five Forces Analysis
 - 5.6.1 Global Trade Frictions
 - 5.6.2 U.S. Tariff Policy ? April 2025
 - 5.6.3 Global Trade Frictions and Their Impacts to Silicon Carbide (SiC) Power Semiconductors Market
- 5.7 ESG Ratings of Leading Companies

6 SILICON CARBIDE (SIC) POWER SEMICONDUCTORS MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Silicon Carbide (SIC) Power Semiconductors Sales Market Share by Type (2020-2025)
- 6.3 Global Silicon Carbide (SIC) Power Semiconductors Market Size by Type (2020-2025)
- 6.4 Global Silicon Carbide (SIC) Power Semiconductors Price by Type (2020-2025)

7 SILICON CARBIDE (SIC) POWER SEMICONDUCTORS MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Silicon Carbide (SIC) Power Semiconductors Market Sales by Application (2020-2025)
- 7.3 Global Silicon Carbide (SIC) Power Semiconductors Market Size (M USD) by Application (2020-2025)
- 7.4 Global Silicon Carbide (SIC) Power Semiconductors Sales Growth Rate by Application (2020-2025)

8 SILICON CARBIDE (SIC) POWER SEMICONDUCTORS MARKET SALES BY REGION

- 8.1 Global Silicon Carbide (SIC) Power Semiconductors Sales by Region
 - 8.1.1 Global Silicon Carbide (SIC) Power Semiconductors Sales by Region
 - 8.1.2 Global Silicon Carbide (SIC) Power Semiconductors Sales Market Share by Region
- 8.2 Global Silicon Carbide (SIC) Power Semiconductors Market Size by Region
 - 8.2.1 Global Silicon Carbide (SIC) Power Semiconductors Market Size by Region
 - 8.2.2 Global Silicon Carbide (SIC) Power Semiconductors Market Size by Region
- 8.3 North America
 - 8.3.1 North America Silicon Carbide (SIC) Power Semiconductors Sales by Country
 - 8.3.2 North America Silicon Carbide (SIC) Power Semiconductors Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Silicon Carbide (SiC) Power Semiconductors Sales by Country

8.4.2 Europe Silicon Carbide (SiC) Power Semiconductors Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific Silicon Carbide (SiC) Power Semiconductors Sales by Region

8.5.2 Asia Pacific Silicon Carbide (SiC) Power Semiconductors Market Size by Region

8.5.3 China Market Overview

8.5.4 Japan Market Overview

8.5.5 South Korea Market Overview

8.5.6 India Market Overview

8.5.7 Southeast Asia Market Overview

8.6 South America

8.6.1 South America Silicon Carbide (SiC) Power Semiconductors Sales by Country

8.6.2 South America Silicon Carbide (SiC) Power Semiconductors Market Size by Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

8.7.1 Middle East and Africa Silicon Carbide (SiC) Power Semiconductors Sales by Region

8.7.2 Middle East and Africa Silicon Carbide (SiC) Power Semiconductors Market Size by Region

8.7.3 Saudi Arabia Market Overview

8.7.4 UAE Market Overview

8.7.5 Egypt Market Overview

8.7.6 Nigeria Market Overview

8.7.7 South Africa Market Overview

9 SILICON CARBIDE (SiC) POWER SEMICONDUCTORS MARKET PRODUCTION BY REGION

9.1 Global Production of Silicon Carbide (SiC) Power Semiconductors by Region(2020-2025)

9.2 Global Silicon Carbide (SiC) Power Semiconductors Revenue Market Share by Region (2020-2025)

9.3 Global Silicon Carbide (SiC) Power Semiconductors Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America Silicon Carbide (SiC) Power Semiconductors Production

9.4.1 North America Silicon Carbide (SiC) Power Semiconductors Production Growth Rate (2020-2025)

9.4.2 North America Silicon Carbide (SiC) Power Semiconductors Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe Silicon Carbide (SiC) Power Semiconductors Production

9.5.1 Europe Silicon Carbide (SiC) Power Semiconductors Production Growth Rate (2020-2025)

9.5.2 Europe Silicon Carbide (SiC) Power Semiconductors Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Silicon Carbide (SiC) Power Semiconductors Production (2020-2025)

9.6.1 Japan Silicon Carbide (SiC) Power Semiconductors Production Growth Rate (2020-2025)

9.6.2 Japan Silicon Carbide (SiC) Power Semiconductors Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Silicon Carbide (SiC) Power Semiconductors Production (2020-2025)

9.7.1 China Silicon Carbide (SiC) Power Semiconductors Production Growth Rate (2020-2025)

9.7.2 China Silicon Carbide (SiC) Power Semiconductors Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 STMicroelectronics

10.1.1 STMicroelectronics Basic Information

10.1.2 STMicroelectronics Silicon Carbide (SiC) Power Semiconductors Product Overview

10.1.3 STMicroelectronics Silicon Carbide (SiC) Power Semiconductors Product Market Performance

10.1.4 STMicroelectronics Business Overview

10.1.5 STMicroelectronics SWOT Analysis

10.1.6 STMicroelectronics Recent Developments

10.2 Infineon

10.2.1 Infineon Basic Information

10.2.2 Infineon Silicon Carbide (SiC) Power Semiconductors Product Overview

- 10.2.3 Infineon Silicon Carbide (SiC) Power Semiconductors Product Market Performance
 - 10.2.4 Infineon Business Overview
 - 10.2.5 Infineon SWOT Analysis
 - 10.2.6 Infineon Recent Developments
- 10.3 Wolfspeed
 - 10.3.1 Wolfspeed Basic Information
 - 10.3.2 Wolfspeed Silicon Carbide (SiC) Power Semiconductors Product Overview
 - 10.3.3 Wolfspeed Silicon Carbide (SiC) Power Semiconductors Product Market Performance
 - 10.3.4 Wolfspeed Business Overview
 - 10.3.5 Wolfspeed SWOT Analysis
 - 10.3.6 Wolfspeed Recent Developments
- 10.4 Rohm
 - 10.4.1 Rohm Basic Information
 - 10.4.2 Rohm Silicon Carbide (SiC) Power Semiconductors Product Overview
 - 10.4.3 Rohm Silicon Carbide (SiC) Power Semiconductors Product Market Performance
 - 10.4.4 Rohm Business Overview
 - 10.4.5 Rohm Recent Developments
- 10.5 onsemi
 - 10.5.1 onsemi Basic Information
 - 10.5.2 onsemi Silicon Carbide (SiC) Power Semiconductors Product Overview
 - 10.5.3 onsemi Silicon Carbide (SiC) Power Semiconductors Product Market Performance
 - 10.5.4 onsemi Business Overview
 - 10.5.5 onsemi Recent Developments
- 10.6 BYD Semiconductor
 - 10.6.1 BYD Semiconductor Basic Information
 - 10.6.2 BYD Semiconductor Silicon Carbide (SiC) Power Semiconductors Product Overview
 - 10.6.3 BYD Semiconductor Silicon Carbide (SiC) Power Semiconductors Product Market Performance
 - 10.6.4 BYD Semiconductor Business Overview
 - 10.6.5 BYD Semiconductor Recent Developments
- 10.7 Microchip (Microsemi)
 - 10.7.1 Microchip (Microsemi) Basic Information
 - 10.7.2 Microchip (Microsemi) Silicon Carbide (SiC) Power Semiconductors Product Overview

10.7.3 Microchip (Microsemi) Silicon Carbide (SiC) Power Semiconductors Product Market Performance

10.7.4 Microchip (Microsemi) Business Overview

10.7.5 Microchip (Microsemi) Recent Developments

10.8 Mitsubishi Electric (Vincotech)

10.8.1 Mitsubishi Electric (Vincotech) Basic Information

10.8.2 Mitsubishi Electric (Vincotech) Silicon Carbide (SiC) Power Semiconductors Product Overview

10.8.3 Mitsubishi Electric (Vincotech) Silicon Carbide (SiC) Power Semiconductors Product Market Performance

10.8.4 Mitsubishi Electric (Vincotech) Business Overview

10.8.5 Mitsubishi Electric (Vincotech) Recent Developments

10.9 Semikron Danfoss

10.9.1 Semikron Danfoss Basic Information

10.9.2 Semikron Danfoss Silicon Carbide (SiC) Power Semiconductors Product Overview

10.9.3 Semikron Danfoss Silicon Carbide (SiC) Power Semiconductors Product Market Performance

10.9.4 Semikron Danfoss Business Overview

10.9.5 Semikron Danfoss Recent Developments

10.10 Fuji Electric

10.10.1 Fuji Electric Basic Information

10.10.2 Fuji Electric Silicon Carbide (SiC) Power Semiconductors Product Overview

10.10.3 Fuji Electric Silicon Carbide (SiC) Power Semiconductors Product Market Performance

10.10.4 Fuji Electric Business Overview

10.10.5 Fuji Electric Recent Developments

10.11 Navitas (GeneSiC)

10.11.1 Navitas (GeneSiC) Basic Information

10.11.2 Navitas (GeneSiC) Silicon Carbide (SiC) Power Semiconductors Product Overview

10.11.3 Navitas (GeneSiC) Silicon Carbide (SiC) Power Semiconductors Product Market Performance

10.11.4 Navitas (GeneSiC) Business Overview

10.11.5 Navitas (GeneSiC) Recent Developments

10.12 Toshiba

10.12.1 Toshiba Basic Information

10.12.2 Toshiba Silicon Carbide (SiC) Power Semiconductors Product Overview

10.12.3 Toshiba Silicon Carbide (SiC) Power Semiconductors Product Market

Performance

10.12.4 Toshiba Business Overview

10.12.5 Toshiba Recent Developments

10.13 Qorvo (UnitedSiC)

10.13.1 Qorvo (UnitedSiC) Basic Information

10.13.2 Qorvo (UnitedSiC) Silicon Carbide (SiC) Power Semiconductors Product Overview

10.13.3 Qorvo (UnitedSiC) Silicon Carbide (SiC) Power Semiconductors Product

Market Performance

10.13.4 Qorvo (UnitedSiC) Business Overview

10.13.5 Qorvo (UnitedSiC) Recent Developments

10.14 San'an Optoelectronics

10.14.1 San'an Optoelectronics Basic Information

10.14.2 San'an Optoelectronics Silicon Carbide (SiC) Power Semiconductors Product Overview

10.14.3 San'an Optoelectronics Silicon Carbide (SiC) Power Semiconductors Product

Market Performance

10.14.4 San'an Optoelectronics Business Overview

10.14.5 San'an Optoelectronics Recent Developments

10.15 Littelfuse (IXYS)

10.15.1 Littelfuse (IXYS) Basic Information

10.15.2 Littelfuse (IXYS) Silicon Carbide (SiC) Power Semiconductors Product Overview

10.15.3 Littelfuse (IXYS) Silicon Carbide (SiC) Power Semiconductors Product Market

Performance

10.15.4 Littelfuse (IXYS) Business Overview

10.15.5 Littelfuse (IXYS) Recent Developments

10.16 CETC

10.16.1 CETC 55 Basic Information

10.16.2 CETC 55 Silicon Carbide (SiC) Power Semiconductors Product Overview

10.16.3 CETC 55 Silicon Carbide (SiC) Power Semiconductors Product Market

Performance

10.16.4 CETC 55 Business Overview

10.16.5 CETC 55 Recent Developments

10.17 WeEn Semiconductors

10.17.1 WeEn Semiconductors Basic Information

10.17.2 WeEn Semiconductors Silicon Carbide (SiC) Power Semiconductors Product Overview

10.17.3 WeEn Semiconductors Silicon Carbide (SiC) Power Semiconductors Product

Market Performance

10.17.4 WeEn Semiconductors Business Overview

10.17.5 WeEn Semiconductors Recent Developments

10.18 BASiC Semiconductor

10.18.1 BASiC Semiconductor Basic Information

10.18.2 BASiC Semiconductor Silicon Carbide (SiC) Power Semiconductors Product Overview

10.18.3 BASiC Semiconductor Silicon Carbide (SiC) Power Semiconductors Product

Market Performance

10.18.4 BASiC Semiconductor Business Overview

10.18.5 BASiC Semiconductor Recent Developments

10.19 SemiQ

10.19.1 SemiQ Basic Information

10.19.2 SemiQ Silicon Carbide (SiC) Power Semiconductors Product Overview

10.19.3 SemiQ Silicon Carbide (SiC) Power Semiconductors Product Market

Performance

10.19.4 SemiQ Business Overview

10.19.5 SemiQ Recent Developments

10.20 Diodes Incorporated

10.20.1 Diodes Incorporated Basic Information

10.20.2 Diodes Incorporated Silicon Carbide (SiC) Power Semiconductors Product Overview

10.20.3 Diodes Incorporated Silicon Carbide (SiC) Power Semiconductors Product

Market Performance

10.20.4 Diodes Incorporated Business Overview

10.20.5 Diodes Incorporated Recent Developments

10.21 SanRex

10.21.1 SanRex Basic Information

10.21.2 SanRex Silicon Carbide (SiC) Power Semiconductors Product Overview

10.21.3 SanRex Silicon Carbide (SiC) Power Semiconductors Product Market

Performance

10.21.4 SanRex Business Overview

10.21.5 SanRex Recent Developments

10.22 Alpha and Omega Semiconductor

10.22.1 Alpha and Omega Semiconductor Basic Information

10.22.2 Alpha and Omega Semiconductor Silicon Carbide (SiC) Power Semiconductors Product Overview

10.22.3 Alpha and Omega Semiconductor Silicon Carbide (SiC) Power Semiconductors Product Market Performance

- 10.22.4 Alpha and Omega Semiconductor Business Overview
- 10.22.5 Alpha and Omega Semiconductor Recent Developments
- 10.23 Bosch
 - 10.23.1 Bosch Basic Information
 - 10.23.2 Bosch Silicon Carbide (SiC) Power Semiconductors Product Overview
 - 10.23.3 Bosch Silicon Carbide (SiC) Power Semiconductors Product Market Performance
 - 10.23.4 Bosch Business Overview
 - 10.23.5 Bosch Recent Developments
- 10.24 KEC Corporation
 - 10.24.1 KEC Corporation Basic Information
 - 10.24.2 KEC Corporation Silicon Carbide (SiC) Power Semiconductors Product Overview
 - 10.24.3 KEC Corporation Silicon Carbide (SiC) Power Semiconductors Product Market Performance
 - 10.24.4 KEC Corporation Business Overview
 - 10.24.5 KEC Corporation Recent Developments
- 10.25 PANJIT Group
 - 10.25.1 PANJIT Group Basic Information
 - 10.25.2 PANJIT Group Silicon Carbide (SiC) Power Semiconductors Product Overview
 - 10.25.3 PANJIT Group Silicon Carbide (SiC) Power Semiconductors Product Market Performance
 - 10.25.4 PANJIT Group Business Overview
 - 10.25.5 PANJIT Group Recent Developments
- 10.26 Nexperia
 - 10.26.1 Nexperia Basic Information
 - 10.26.2 Nexperia Silicon Carbide (SiC) Power Semiconductors Product Overview
 - 10.26.3 Nexperia Silicon Carbide (SiC) Power Semiconductors Product Market Performance
 - 10.26.4 Nexperia Business Overview
 - 10.26.5 Nexperia Recent Developments
- 10.27 Vishay Intertechnology
 - 10.27.1 Vishay Intertechnology Basic Information
 - 10.27.2 Vishay Intertechnology Silicon Carbide (SiC) Power Semiconductors Product Overview
 - 10.27.3 Vishay Intertechnology Silicon Carbide (SiC) Power Semiconductors Product Market Performance
 - 10.27.4 Vishay Intertechnology Business Overview

- 10.27.5 Vishay Intertechnology Recent Developments
- 10.28 Zhuzhou CRRC Times Electric
 - 10.28.1 Zhuzhou CRRC Times Electric Basic Information
 - 10.28.2 Zhuzhou CRRC Times Electric Silicon Carbide (SiC) Power Semiconductors Product Overview
 - 10.28.3 Zhuzhou CRRC Times Electric Silicon Carbide (SiC) Power Semiconductors Product Market Performance
 - 10.28.4 Zhuzhou CRRC Times Electric Business Overview
 - 10.28.5 Zhuzhou CRRC Times Electric Recent Developments
- 10.29 China Resources Microelectronics Limited
 - 10.29.1 China Resources Microelectronics Limited Basic Information
 - 10.29.2 China Resources Microelectronics Limited Silicon Carbide (SiC) Power Semiconductors Product Overview
 - 10.29.3 China Resources Microelectronics Limited Silicon Carbide (SiC) Power Semiconductors Product Market Performance
 - 10.29.4 China Resources Microelectronics Limited Business Overview
 - 10.29.5 China Resources Microelectronics Limited Recent Developments
- 10.30 StarPower
 - 10.30.1 StarPower Basic Information
 - 10.30.2 StarPower Silicon Carbide (SiC) Power Semiconductors Product Overview
 - 10.30.3 StarPower Silicon Carbide (SiC) Power Semiconductors Product Market Performance
 - 10.30.4 StarPower Business Overview
 - 10.30.5 StarPower Recent Developments

11 SILICON CARBIDE (SiC) POWER SEMICONDUCTORS MARKET FORECAST BY REGION

- 11.1 Global Silicon Carbide (SiC) Power Semiconductors Market Size Forecast
- 11.2 Global Silicon Carbide (SiC) Power Semiconductors Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe Silicon Carbide (SiC) Power Semiconductors Market Size Forecast by Country
 - 11.2.3 Asia Pacific Silicon Carbide (SiC) Power Semiconductors Market Size Forecast by Region
 - 11.2.4 South America Silicon Carbide (SiC) Power Semiconductors Market Size Forecast by Country
 - 11.2.5 Middle East and Africa Forecasted Sales of Silicon Carbide (SiC) Power Semiconductors by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global Silicon Carbide (SiC) Power Semiconductors Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Silicon Carbide (SiC) Power Semiconductors by Type (2026-2035)

12.1.2 Global Silicon Carbide (SiC) Power Semiconductors Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Silicon Carbide (SiC) Power Semiconductors by Type (2026-2035)

12.2 Global Silicon Carbide (SiC) Power Semiconductors Market Forecast by Application (2026-2035)

12.2.1 Global Silicon Carbide (SiC) Power Semiconductors Sales (K Units) Forecast by Application

12.2.2 Global Silicon Carbide (SiC) Power Semiconductors Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Silicon Carbide (SiC) Power Semiconductors Market Size by Type (M USD)

Table 4. Global Silicon Carbide (SiC) Power Semiconductors Market Size by Application

Table 5. Silicon Carbide (SiC) Power Semiconductors Market Size Comparison by Region (M USD)

Table 6. Global Silicon Carbide (SiC) Power Semiconductors Sales (K Units) by Manufacturers (2020-2025)

Table 7. Global Silicon Carbide (SiC) Power Semiconductors Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Silicon Carbide (SiC) Power Semiconductors Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Silicon Carbide (SiC) Power Semiconductors Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Silicon Carbide (SiC) Power Semiconductors as of 2025)

Table 11. Global Market Silicon Carbide (SiC) Power Semiconductors Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Silicon Carbide (SiC) Power Semiconductors Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Silicon Carbide (SiC) Power Semiconductors Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading

Countries

Table 26. Global Silicon Carbide (SiC) Power Semiconductors Sales by Type (K Units)

Table 27. Global Silicon Carbide (SiC) Power Semiconductors Market Size by Type (M USD)

Table 28. Global Silicon Carbide (SiC) Power Semiconductors Sales (K Units) by Type (2020-2025)

Table 29. Global Silicon Carbide (SiC) Power Semiconductors Sales Market Share by Type (2020-2025)

Table 30. Global Silicon Carbide (SiC) Power Semiconductors Market Size (M USD) by Type (2020-2025)

Table 31. Global Silicon Carbide (SiC) Power Semiconductors Market Share by Type (2020-2025)

Table 32. Global Silicon Carbide (SiC) Power Semiconductors Price (USD/Unit) by Type (2020-2025)

Table 33. Global Silicon Carbide (SiC) Power Semiconductors Sales (K Units) by Application

Table 34. Global Silicon Carbide (SiC) Power Semiconductors Market Size by Application

Table 35. Global Silicon Carbide (SiC) Power Semiconductors Sales by Application (2020-2025) & (K Units)

Table 36. Global Silicon Carbide (SiC) Power Semiconductors Sales Market Share by Application (2020-2025)

Table 37. Global Silicon Carbide (SiC) Power Semiconductors Market Size by Application (2020-2025) & (M USD)

Table 38. Global Silicon Carbide (SiC) Power Semiconductors Market Share by Application (2020-2025)

Table 39. Global Silicon Carbide (SiC) Power Semiconductors Sales Growth Rate by Application (2020-2025)

Table 40. Global Silicon Carbide (SiC) Power Semiconductors Sales by Region (2020-2025) & (K Units)

Table 41. Global Silicon Carbide (SiC) Power Semiconductors Sales Market Share by Region (2020-2025)

Table 42. Global Silicon Carbide (SiC) Power Semiconductors Market Size by Region (2020-2025) & (M USD)

Table 43. Global Silicon Carbide (SiC) Power Semiconductors Market Size by Region (2020-2025)

Table 44. North America Silicon Carbide (SiC) Power Semiconductors Sales by Country (2020-2025) & (K Units)

Table 45. North America Silicon Carbide (SiC) Power Semiconductors Market Size by

Country (2020-2025) & (M USD)

Table 46. Europe Silicon Carbide (SiC) Power Semiconductors Sales by Country (2020-2025) & (K Units)

Table 47. Europe Silicon Carbide (SiC) Power Semiconductors Market Size by Country (2020-2025) & (M USD)

Table 48. Asia Pacific Silicon Carbide (SiC) Power Semiconductors Sales by Region (2020-2025) & (K Units)

Table 49. Asia Pacific Silicon Carbide (SiC) Power Semiconductors Market Size by Region (2020-2025) & (M USD)

Table 50. South America Silicon Carbide (SiC) Power Semiconductors Sales by Country (2020-2025) & (K Units)

Table 51. South America Silicon Carbide (SiC) Power Semiconductors Market Size by Country (2020-2025) & (M USD)

Table 52. Middle East and Africa Silicon Carbide (SiC) Power Semiconductors Sales by Region (2020-2025) & (K Units)

Table 53. Middle East and Africa Silicon Carbide (SiC) Power Semiconductors Market Size by Region (2020-2025) & (M USD)

Table 54. Global Silicon Carbide (SiC) Power Semiconductors Production (K Units) by Region(2020-2025)

Table 55. Global Silicon Carbide (SiC) Power Semiconductors Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Silicon Carbide (SiC) Power Semiconductors Revenue Market Share by Region (2020-2025)

Table 57. Global Silicon Carbide (SiC) Power Semiconductors Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America Silicon Carbide (SiC) Power Semiconductors Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe Silicon Carbide (SiC) Power Semiconductors Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan Silicon Carbide (SiC) Power Semiconductors Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China Silicon Carbide (SiC) Power Semiconductors Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. STMicroelectronics Basic Information

Table 63. STMicroelectronics Silicon Carbide (SiC) Power Semiconductors Product Overview

Table 64. STMicroelectronics Silicon Carbide (SiC) Power Semiconductors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. STMicroelectronics Business Overview

Table 66. STMicroelectronics SWOT Analysis

Table 67. STMicroelectronics Recent Developments

Table 68. Infineon Basic Information

Table 69. Infineon Silicon Carbide (SiC) Power Semiconductors Product Overview

Table 70. Infineon Silicon Carbide (SiC) Power Semiconductors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. Infineon Business Overview

Table 72. Infineon SWOT Analysis

Table 73. Infineon Recent Developments

Table 74. Wolfspeed Basic Information

Table 75. Wolfspeed Silicon Carbide (SiC) Power Semiconductors Product Overview

Table 76. Wolfspeed Silicon Carbide (SiC) Power Semiconductors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. Wolfspeed Business Overview

Table 78. Wolfspeed SWOT Analysis

Table 79. Wolfspeed Recent Developments

Table 80. Rohm Basic Information

Table 81. Rohm Silicon Carbide (SiC) Power Semiconductors Product Overview

Table 82. Rohm Silicon Carbide (SiC) Power Semiconductors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 83. Rohm Business Overview

Table 84. Rohm Recent Developments

Table 85. onsemi Basic Information

Table 86. onsemi Silicon Carbide (SiC) Power Semiconductors Product Overview

Table 87. onsemi Silicon Carbide (SiC) Power Semiconductors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 88. onsemi Business Overview

Table 89. onsemi Recent Developments

Table 90. BYD Semiconductor Basic Information

Table 91. BYD Semiconductor Silicon Carbide (SiC) Power Semiconductors Product Overview

Table 92. BYD Semiconductor Silicon Carbide (SiC) Power Semiconductors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 93. BYD Semiconductor Business Overview

Table 94. BYD Semiconductor Recent Developments

Table 95. Microchip (Microsemi) Basic Information

Table 96. Microchip (Microsemi) Silicon Carbide (SiC) Power Semiconductors Product Overview

Table 97. Microchip (Microsemi) Silicon Carbide (SiC) Power Semiconductors Sales (K

Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 98. Microchip (Microsemi) Business Overview

Table 99. Microchip (Microsemi) Recent Developments

Table 100. Mitsubishi Electric (Vincotech) Basic Information

Table 101. Mitsubishi Electric (Vincotech) Silicon Carbide (SiC) Power Semiconductors Product Overview

Table 102. Mitsubishi Electric (Vincotech) Silicon Carbide (SiC) Power Semiconductors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 103. Mitsubishi Electric (Vincotech) Business Overview

Table 104. Mitsubishi Electric (Vincotech) Recent Developments

Table 105. Semikron Danfoss Basic Information

Table 106. Semikron Danfoss Silicon Carbide (SiC) Power Semiconductors Product Overview

Table 107. Semikron Danfoss Silicon Carbide (SiC) Power Semiconductors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 108. Semikron Danfoss Business Overview

Table 109. Semikron Danfoss Recent Developments

Table 110. Fuji Electric Basic Information

Table 111. Fuji Electric Silicon Carbide (SiC) Power Semiconductors Product Overview

Table 112. Fuji Electric Silicon Carbide (SiC) Power Semiconductors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 113. Fuji Electric Business Overview

Table 114. Fuji Electric Recent Developments

Table 115. Navitas (Genesic) Basic Information

Table 116. Navitas (Genesic) Silicon Carbide (SiC) Power Semiconductors Product Overview

Table 117. Navitas (Genesic) Silicon Carbide (SiC) Power Semiconductors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 118. Navitas (Genesic) Business Overview

Table 119. Navitas (Genesic) Recent Developments

Table 120. Toshiba Basic Information

Table 121. Toshiba Silicon Carbide (SiC) Power Semiconductors Product Overview

Table 122. Toshiba Silicon Carbide (SiC) Power Semiconductors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 123. Toshiba Business Overview

Table 124. Toshiba Recent Developments

Table 125. Qorvo (UnitedSiC) Basic Information

Table 126. Qorvo (UnitedSiC) Silicon Carbide (SiC) Power Semiconductors Product Overview

Table 127. Qorvo (UnitedSiC) Silicon Carbide (SiC) Power Semiconductors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 128. Qorvo (UnitedSiC) Business Overview

Table 129. Qorvo (UnitedSiC) Recent Developments

Table 130. San'an Optoelectronics Basic Information

Table 131. San'an Optoelectronics Silicon Carbide (SiC) Power Semiconductors Product Overview

Table 132. San'an Optoelectronics Silicon Carbide (SiC) Power Semiconductors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 133. San'an Optoelectronics Business Overview

Table 134. San'an Optoelectronics Recent Developments

Table 135. Littelfuse (IXYS) Basic Information

Table 136. Littelfuse (IXYS) Silicon Carbide (SiC) Power Semiconductors Product Overview

Table 137. Littelfuse (IXYS) Silicon Carbide (SiC) Power Semiconductors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 138. Littelfuse (IXYS) Business Overview

Table 139. Littelfuse (IXYS) Recent Developments

Table 140. CETC 55 Basic Information

Table 141. CETC 55 Silicon Carbide (SiC) Power Semiconductors Product Overview

Table 142. CETC 55 Silicon Carbide (SiC) Power Semiconductors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 143. CETC 55 Business Overview

Table 144. CETC 55 Recent Developments

Table 145. WeEn Semiconductors Basic Information

Table 146. WeEn Semiconductors Silicon Carbide (SiC) Power Semiconductors Product Overview

Table 147. WeEn Semiconductors Silicon Carbide (SiC) Power Semiconductors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 148. WeEn Semiconductors Business Overview

Table 149. WeEn Semiconductors Recent Developments

Table 150. BASiC Semiconductor Basic Information

Table 151. BASiC Semiconductor Silicon Carbide (SiC) Power Semiconductors Product Overview

Table 152. BASiC Semiconductor Silicon Carbide (SiC) Power Semiconductors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 153. BASiC Semiconductor Business Overview

Table 154. BASiC Semiconductor Recent Developments

Table 155. SemiQ Basic Information

Table 156. SemiQ Silicon Carbide (SiC) Power Semiconductors Product Overview

Table 157. SemiQ Silicon Carbide (SiC) Power Semiconductors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 158. SemiQ Business Overview

Table 159. SemiQ Recent Developments

Table 160. Diodes Incorporated Basic Information

Table 161. Diodes Incorporated Silicon Carbide (SiC) Power Semiconductors Product Overview

Table 162. Diodes Incorporated Silicon Carbide (SiC) Power Semiconductors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 163. Diodes Incorporated Business Overview

Table 164. Diodes Incorporated Recent Developments

Table 165. SanRex Basic Information

Table 166. SanRex Silicon Carbide (SiC) Power Semiconductors Product Overview

Table 167. SanRex Silicon Carbide (SiC) Power Semiconductors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 168. SanRex Business Overview

Table 169. SanRex Recent Developments

Table 170. Alpha and Omega Semiconductor Basic Information

Table 171. Alpha and Omega Semiconductor Silicon Carbide (SiC) Power Semiconductors Product Overview

Table 172. Alpha and Omega Semiconductor Silicon Carbide (SiC) Power Semiconductors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 173. Alpha and Omega Semiconductor Business Overview

Table 174. Alpha and Omega Semiconductor Recent Developments

Table 175. Bosch Basic Information

Table 176. Bosch Silicon Carbide (SiC) Power Semiconductors Product Overview

Table 177. Bosch Silicon Carbide (SiC) Power Semiconductors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 178. Bosch Business Overview

Table 179. Bosch Recent Developments

Table 180. KEC Corporation Basic Information

Table 181. KEC Corporation Silicon Carbide (SiC) Power Semiconductors Product Overview

Table 182. KEC Corporation Silicon Carbide (SiC) Power Semiconductors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 183. KEC Corporation Business Overview

Table 184. KEC Corporation Recent Developments

Table 185. PANJIT Group Basic Information

Table 186. PANJIT Group Silicon Carbide (SiC) Power Semiconductors Product Overview

Table 187. PANJIT Group Silicon Carbide (SiC) Power Semiconductors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 188. PANJIT Group Business Overview

Table 189. PANJIT Group Recent Developments

Table 190. Nexperia Basic Information

Table 191. Nexperia Silicon Carbide (SiC) Power Semiconductors Product Overview

Table 192. Nexperia Silicon Carbide (SiC) Power Semiconductors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 193. Nexperia Business Overview

Table 194. Nexperia Recent Developments

Table 195. Vishay Intertechnology Basic Information

Table 196. Vishay Intertechnology Silicon Carbide (SiC) Power Semiconductors Product Overview

Table 197. Vishay Intertechnology Silicon Carbide (SiC) Power Semiconductors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 198. Vishay Intertechnology Business Overview

Table 199. Vishay Intertechnology Recent Developments

Table 200. Zhuzhou CRRC Times Electric Basic Information

Table 201. Zhuzhou CRRC Times Electric Silicon Carbide (SiC) Power Semiconductors Product Overview

Table 202. Zhuzhou CRRC Times Electric Silicon Carbide (SiC) Power Semiconductors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 203. Zhuzhou CRRC Times Electric Business Overview

Table 204. Zhuzhou CRRC Times Electric Recent Developments

Table 205. China Resources Microelectronics Limited Basic Information

Table 206. China Resources Microelectronics Limited Silicon Carbide (SiC) Power Semiconductors Product Overview

Table 207. China Resources Microelectronics Limited Silicon Carbide (SiC) Power Semiconductors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 208. China Resources Microelectronics Limited Business Overview

Table 209. China Resources Microelectronics Limited Recent Developments

Table 210. StarPower Basic Information

Table 211. StarPower Silicon Carbide (SiC) Power Semiconductors Product Overview

Table 212. StarPower Silicon Carbide (SiC) Power Semiconductors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 213. StarPower Business Overview

Table 214. StarPower Recent Developments

Table 215. Global Silicon Carbide (SiC) Power Semiconductors Sales Forecast by Region (2026-2035) & (K Units)

Table 216. Global Silicon Carbide (SiC) Power Semiconductors Market Size Forecast by Region (2026-2035) & (M USD)

Table 217. North America Silicon Carbide (SiC) Power Semiconductors Sales Forecast by Country (2026-2035) & (K Units)

Table 218. North America Silicon Carbide (SiC) Power Semiconductors Market Size Forecast by Country (2026-2035) & (M USD)

Table 219. Europe Silicon Carbide (SiC) Power Semiconductors Sales Forecast by Country (2026-2035) & (K Units)

Table 220. Europe Silicon Carbide (SiC) Power Semiconductors Market Size Forecast by Country (2026-2035) & (M USD)

Table 221. Asia Pacific Silicon Carbide (SiC) Power Semiconductors Sales Forecast by Region (2026-2035) & (K Units)

Table 222. Asia Pacific Silicon Carbide (SiC) Power Semiconductors Market Size Forecast by Region (2026-2035) & (M USD)

Table 223. South America Silicon Carbide (SiC) Power Semiconductors Sales Forecast by Country (2026-2035) & (K Units)

Table 224. South America Silicon Carbide (SiC) Power Semiconductors Market Size Forecast by Country (2026-2035) & (M USD)

Table 225. Middle East and Africa Silicon Carbide (SiC) Power Semiconductors Sales Forecast by Country (2026-2035) & (Units)

Table 226. Middle East and Africa Silicon Carbide (SiC) Power Semiconductors Market Size Forecast by Country (2026-2035) & (M USD)

Table 227. Global Silicon Carbide (SiC) Power Semiconductors Sales Forecast by Type (2026-2035) & (K Units)

Table 228. Global Silicon Carbide (SiC) Power Semiconductors Market Size Forecast by Type (2026-2035) & (M USD)

Table 229. Global Silicon Carbide (SiC) Power Semiconductors Price Forecast by Type (2026-2035) & (USD/Unit)

Table 230. Global Silicon Carbide (SiC) Power Semiconductors Sales (K Units) Forecast by Application (2026-2035)

Table 231. Global Silicon Carbide (SiC) Power Semiconductors Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

Figure 1. Product Picture of Silicon Carbide (SiC) Power Semiconductors

Figure 2. Data Triangulation

Figure 3. Key Caveats

Figure 4. Global Silicon Carbide (SiC) Power Semiconductors Market Size (M USD), 2025-2035

Figure 5. Global Silicon Carbide (SiC) Power Semiconductors Market Size (M USD) (2020-2035)

Figure 6. Global Silicon Carbide (SiC) Power Semiconductors Sales (K Units) & (2020-2035)

Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)

Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 9. Evaluation Matrix of Regional Market Development Potential

Figure 10. Silicon Carbide (SiC) Power Semiconductors Market Size by Country (M USD)

Figure 11. Company Assessment Quadrant

Figure 12. Global Silicon Carbide (SiC) Power Semiconductors Product Life Cycle

Figure 13. Silicon Carbide (SiC) Power Semiconductors Sales Share by Manufacturers in 2025

Figure 14. Global Silicon Carbide (SiC) Power Semiconductors Revenue Share by Manufacturers in 2025

Figure 15. Silicon Carbide (SiC) Power Semiconductors Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025

Figure 16. Global Market Silicon Carbide (SiC) Power Semiconductors Average Price (USD/Unit) of Key Manufacturers in 2025

Figure 17. The Global 5 and 10 Largest Players: Market Share by Silicon Carbide (SiC) Power Semiconductors Revenue in 2025

Figure 18. Industry Chain Map of Silicon Carbide (SiC) Power Semiconductors

Figure 19. Global Silicon Carbide (SiC) Power Semiconductors Market PEST Analysis

Figure 20. Global Silicon Carbide (SiC) Power Semiconductors Market Porter's Five Forces Analysis

Figure 21. Global Merchandise Trade as a Percentage Of GDP

Figure 22. US - Imports of Goods by Country

Figure 23. China Exports by Country

Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers

Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)

Figure 26. Global Silicon Carbide (SiC) Power Semiconductors Market Share by Type

Figure 27. Sales Market Share of Silicon Carbide (SiC) Power Semiconductors by Type (2020-2025)

Figure 28. Sales Market Share of Silicon Carbide (SiC) Power Semiconductors by Type in 2025

Figure 29. Market Share of Silicon Carbide (SiC) Power Semiconductors by Type (2020-2025)

Figure 30. Market Share of Silicon Carbide (SiC) Power Semiconductors by Type in 2025

Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 32. Global Silicon Carbide (SiC) Power Semiconductors Market Share by Application

Figure 33. Global Silicon Carbide (SiC) Power Semiconductors Sales Market Share by Application (2020-2025)

Figure 34. Global Silicon Carbide (SiC) Power Semiconductors Sales Market Share by Application in 2025

Figure 35. Global Silicon Carbide (SiC) Power Semiconductors Market Share by Application (2020-2025)

Figure 36. Global Silicon Carbide (SiC) Power Semiconductors Market Share by Application in 2025

Figure 37. Global Silicon Carbide (SiC) Power Semiconductors Sales Growth Rate by Application (2020-2025)

Figure 38. Global Silicon Carbide (SiC) Power Semiconductors Sales Market Share by Region (2020-2025)

Figure 39. Global Silicon Carbide (SiC) Power Semiconductors Market Size by Region (2020-2025)

Figure 40. North America Silicon Carbide (SiC) Power Semiconductors Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Silicon Carbide (SiC) Power Semiconductors Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Silicon Carbide (SiC) Power Semiconductors Sales Market Share by Country in 2024

Figure 43. North America Silicon Carbide (SiC) Power Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Silicon Carbide (SiC) Power Semiconductors Market Size by Country in 2024

Figure 45. U.S. Silicon Carbide (SiC) Power Semiconductors Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Silicon Carbide (SiC) Power Semiconductors Market Size and Growth

Rate (2020-2025) & (M USD)

Figure 47. Canada Silicon Carbide (SiC) Power Semiconductors Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Silicon Carbide (SiC) Power Semiconductors Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Silicon Carbide (SiC) Power Semiconductors Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Silicon Carbide (SiC) Power Semiconductors Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Silicon Carbide (SiC) Power Semiconductors Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Silicon Carbide (SiC) Power Semiconductors Sales Market Share by Country in 2024

Figure 53. Europe Silicon Carbide (SiC) Power Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Silicon Carbide (SiC) Power Semiconductors Market Size by Country in 2024

Figure 55. Germany Silicon Carbide (SiC) Power Semiconductors Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Silicon Carbide (SiC) Power Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Silicon Carbide (SiC) Power Semiconductors Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Silicon Carbide (SiC) Power Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Silicon Carbide (SiC) Power Semiconductors Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Silicon Carbide (SiC) Power Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Silicon Carbide (SiC) Power Semiconductors Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Silicon Carbide (SiC) Power Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Silicon Carbide (SiC) Power Semiconductors Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Silicon Carbide (SiC) Power Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Silicon Carbide (SiC) Power Semiconductors Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Silicon Carbide (SiC) Power Semiconductors Sales Market Share by Region in 2024

Figure 67. Asia Pacific Silicon Carbide (SiC) Power Semiconductors Market Size by Region in 2024

Figure 68. China Silicon Carbide (SiC) Power Semiconductors Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Silicon Carbide (SiC) Power Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Silicon Carbide (SiC) Power Semiconductors Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Silicon Carbide (SiC) Power Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Silicon Carbide (SiC) Power Semiconductors Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Silicon Carbide (SiC) Power Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Silicon Carbide (SiC) Power Semiconductors Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Silicon Carbide (SiC) Power Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Silicon Carbide (SiC) Power Semiconductors Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Silicon Carbide (SiC) Power Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Silicon Carbide (SiC) Power Semiconductors Sales and Growth Rate (K Units)

Figure 79. South America Silicon Carbide (SiC) Power Semiconductors Sales Market Share by Country in 2024

Figure 80. South America Silicon Carbide (SiC) Power Semiconductors Market Size and Growth Rate (M USD)

Figure 81. South America Silicon Carbide (SiC) Power Semiconductors Market Size by Country in 2024

Figure 82. Brazil Silicon Carbide (SiC) Power Semiconductors Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Silicon Carbide (SiC) Power Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Silicon Carbide (SiC) Power Semiconductors Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Silicon Carbide (SiC) Power Semiconductors Market Size and

Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Silicon Carbide (SiC) Power Semiconductors Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Silicon Carbide (SiC) Power Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Silicon Carbide (SiC) Power Semiconductors Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Silicon Carbide (SiC) Power Semiconductors Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Silicon Carbide (SiC) Power Semiconductors Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Silicon Carbide (SiC) Power Semiconductors Market Size by Region in 2024

Figure 92. Saudi Arabia Silicon Carbide (SiC) Power Semiconductors Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Silicon Carbide (SiC) Power Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Silicon Carbide (SiC) Power Semiconductors Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Silicon Carbide (SiC) Power Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Silicon Carbide (SiC) Power Semiconductors Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Silicon Carbide (SiC) Power Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Silicon Carbide (SiC) Power Semiconductors Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Silicon Carbide (SiC) Power Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Silicon Carbide (SiC) Power Semiconductors Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Silicon Carbide (SiC) Power Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Silicon Carbide (SiC) Power Semiconductors Production Market Share by Region (2020-2025)

Figure 103. North America Silicon Carbide (SiC) Power Semiconductors Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Silicon Carbide (SiC) Power Semiconductors Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Silicon Carbide (SiC) Power Semiconductors Production (K Units)
Growth Rate (2020-2025)

Figure 106. China Silicon Carbide (SiC) Power Semiconductors Production (K Units)
Growth Rate (2020-2025)

Figure 107. Global Silicon Carbide (SiC) Power Semiconductors Sales Forecast by
Volume (2020-2035) & (K Units)

Figure 108. Global Silicon Carbide (SiC) Power Semiconductors Market Size Forecast
by Value (2020-2035) & (M USD)

Figure 109. Global Silicon Carbide (SiC) Power Semiconductors Sales Market Share
Forecast by Type (2026-2035)

Figure 110. Global Silicon Carbide (SiC) Power Semiconductors Market Share Forecast
by Type (2026-2035)

Figure 111. Global Silicon Carbide (SiC) Power Semiconductors Sales Forecast by
Application (2026-2035)

Figure 112. Global Silicon Carbide (SiC) Power Semiconductors Market Share Forecast
by Application (2026-2035)

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