

Global Power SiC Devices Market Growth 2023-2029

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Abstracts

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According to our LPI (LP Information) latest study, the global Power SiC Devices market size was valued at US\$ 2045.5 million in 2022. With growing demand in downstream market and recovery from influence of COVID-19 and the Russia-Ukraine War, the Power SiC Devices is forecast to a readjusted size of US\$ 13630 million by 2029 with a CAGR of 31.1% during review period.

The research report highlights the growth potential of the global Power SiC Devices market. With recovery from influence of COVID-19 and the Russia-Ukraine War, Power SiC Devices are expected to show stable growth in the future market. However, product differentiation, reducing costs, and supply chain optimization remain crucial for the widespread adoption of Power SiC Devices. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the Power SiC Devices market.

This report studies the SiC Based Power Electronics, key segments cover SiC MOSFET, SiC Schottky Barrier Diodes (SBDs), SiC FETs, SiC JFETs etc.

The key players of SiC MOSFET modules are STMicroelectronics, Infineon, Wolfspeed, Rohm, Onsemi, BYD Semiconductor, Microchip (Microsemi), Mitsubishi Electric (Vincotech) and Semikron Danfoss, etc. The top three players hold a share over 70 percent. The key players of SiC MOSFET Discrete are STMicroelectronics, Infineon, Wolfspeed, Rohm, and CETC 55, etc. The top five players hold a share over 80 percent. The key players of SiC SBD are STMicroelectronics, Infineon, Wolfspeed, Rohm, onsemi, Microchip (Microsemi), and San'an Optoelectronics, etc. The top five players hold a share over 70 percent.

Key Features:

The report on Power SiC Devices market reflects various aspects and provide valuable insights into the industry.

Market Size and Growth: The research report provide an overview of the current size and growth of the Power SiC Devices market. It may include historical data, market segmentation by Type (e.g., SiC MOSFET Module, SiC MOSFET Discrete), and regional breakdowns.

Market Drivers and Challenges: The report can identify and analyse the factors driving the growth of the Power SiC Devices market, such as government regulations, environmental concerns, technological advancements, and changing consumer preferences. It can also highlight the challenges faced by the industry, including infrastructure limitations, range anxiety, and high upfront costs.

Competitive Landscape: The research report provides analysis of the competitive landscape within the Power SiC Devices market. It includes profiles of key players, their market share, strategies, and product offerings. The report can also highlight emerging players and their potential impact on the market.

Technological Developments: The research report can delve into the latest technological developments in the Power SiC Devices industry. This include advancements in Power SiC Devices technology, Power SiC Devices new entrants, Power SiC Devices new investment, and other innovations that are shaping the future of Power SiC Devices.

Downstream Procumbent Preference: The report can shed light on customer procumbent behaviour and adoption trends in the Power SiC Devices market. It includes factors influencing customer ' purchasing decisions, preferences for Power SiC Devices product.

Government Policies and Incentives: The research report analyse the impact of government policies and incentives on the Power SiC Devices market. This may include an assessment of regulatory frameworks, subsidies, tax incentives, and other measures aimed at promoting Power SiC Devices market. The report also evaluates the effectiveness of these policies in driving market growth.

Environmental Impact and Sustainability: The research report assess the environmental impact and sustainability aspects of the Power SiC Devices market.

Market Forecasts and Future Outlook: Based on the analysis conducted, the research report provide market forecasts and outlook for the Power SiC Devices industry. This includes projections of market size, growth rates, regional trends, and predictions on technological advancements and policy developments.

Recommendations and Opportunities: The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the Power SiC Devices market.

Market Segmentation:

Power SiC Devices market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Segmentation by type

SiC MOSFET Module

SiC MOSFET Discrete

SiC Diode (SiC SBD)

Others (SiC JFETs & FETs)

Segmentation by application

Automotive & EV/HEV

EV Charging

Industrial Motor/Drive

PV, Energy Storage, Wind Power

UPS, Data Center & Server

Rail Transport

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

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

GE Aerospace

KEC Corporation

PANJIT Group

Nexperia

Vishay Intertechnology

Zhuzhou CRRC Times Electric

China Resources Microelectronics Limited

StarPower

Yangzhou Yangjie Electronic Technology

Guangdong AccoPower Semiconductor

Changzhou Galaxy Century Microelectronics

Hangzhou Silan Microelectronics

Cisoid

Key Questions Addressed in this Report

What is the 10-year outlook for the global Power SiC Devices market?

What factors are driving Power SiC Devices market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Power SiC Devices market opportunities vary by end market size?

How does Power SiC Devices break out type, application?

What are the influences of COVID-19 and Russia-Ukraine war?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Power SiC Devices Annual Sales 2018-2029
 - 2.1.2 World Current & Future Analysis for Power SiC Devices by Geographic Region, 2018, 2022 & 2029
 - 2.1.3 World Current & Future Analysis for Power SiC Devices by Country/Region, 2018, 2022 & 2029
- 2.2 Power SiC Devices Segment by Type
 - 2.2.1 SiC MOSFET Module
 - 2.2.2 SiC MOSFET Discrete
 - 2.2.3 SiC Diode (SiC SBD)
 - 2.2.4 Others (SiC JFETs & FETs)
- 2.3 Power SiC Devices Sales by Type
 - 2.3.1 Global Power SiC Devices Sales Market Share by Type (2018-2023)
 - 2.3.2 Global Power SiC Devices Revenue and Market Share by Type (2018-2023)
 - 2.3.3 Global Power SiC Devices Sale Price by Type (2018-2023)
- 2.4 Power SiC Devices Segment by Application
 - 2.4.1 Automotive & EV/HEV
 - 2.4.2 EV Charging
 - 2.4.3 Industrial Motor/Drive
 - 2.4.4 PV, Energy Storage, Wind Power
 - 2.4.5 UPS, Data Center & Server
 - 2.4.6 Rail Transport
 - 2.4.7 Others
- 2.5 Power SiC Devices Sales by Application

- 2.5.1 Global Power SiC Devices Sale Market Share by Application (2018-2023)
- 2.5.2 Global Power SiC Devices Revenue and Market Share by Application (2018-2023)
- 2.5.3 Global Power SiC Devices Sale Price by Application (2018-2023)

3 GLOBAL POWER SiC DEVICES BY COMPANY

- 3.1 Global Power SiC Devices Breakdown Data by Company
 - 3.1.1 Global Power SiC Devices Annual Sales by Company (2018-2023)
 - 3.1.2 Global Power SiC Devices Sales Market Share by Company (2018-2023)
- 3.2 Global Power SiC Devices Annual Revenue by Company (2018-2023)
 - 3.2.1 Global Power SiC Devices Revenue by Company (2018-2023)
 - 3.2.2 Global Power SiC Devices Revenue Market Share by Company (2018-2023)
- 3.3 Global Power SiC Devices Sale Price by Company
- 3.4 Key Manufacturers Power SiC Devices Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Power SiC Devices Product Location Distribution
 - 3.4.2 Players Power SiC Devices Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2018-2023)
- 3.6 New Products and Potential Entrants
- 3.7 Mergers & Acquisitions, Expansion

4 WORLD HISTORIC REVIEW FOR POWER SiC DEVICES BY GEOGRAPHIC REGION

- 4.1 World Historic Power SiC Devices Market Size by Geographic Region (2018-2023)
 - 4.1.1 Global Power SiC Devices Annual Sales by Geographic Region (2018-2023)
 - 4.1.2 Global Power SiC Devices Annual Revenue by Geographic Region (2018-2023)
- 4.2 World Historic Power SiC Devices Market Size by Country/Region (2018-2023)
 - 4.2.1 Global Power SiC Devices Annual Sales by Country/Region (2018-2023)
 - 4.2.2 Global Power SiC Devices Annual Revenue by Country/Region (2018-2023)
- 4.3 Americas Power SiC Devices Sales Growth
- 4.4 APAC Power SiC Devices Sales Growth
- 4.5 Europe Power SiC Devices Sales Growth
- 4.6 Middle East & Africa Power SiC Devices Sales Growth

5 AMERICAS

5.1 Americas Power SiC Devices Sales by Country

5.1.1 Americas Power SiC Devices Sales by Country (2018-2023)

5.1.2 Americas Power SiC Devices Revenue by Country (2018-2023)

5.2 Americas Power SiC Devices Sales by Type

5.3 Americas Power SiC Devices Sales by Application

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Power SiC Devices Sales by Region

6.1.1 APAC Power SiC Devices Sales by Region (2018-2023)

6.1.2 APAC Power SiC Devices Revenue by Region (2018-2023)

6.2 APAC Power SiC Devices Sales by Type

6.3 APAC Power SiC Devices Sales by Application

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Power SiC Devices by Country

7.1.1 Europe Power SiC Devices Sales by Country (2018-2023)

7.1.2 Europe Power SiC Devices Revenue by Country (2018-2023)

7.2 Europe Power SiC Devices Sales by Type

7.3 Europe Power SiC Devices Sales by Application

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Power SiC Devices by Country

8.1.1 Middle East & Africa Power SiC Devices Sales by Country (2018-2023)

8.1.2 Middle East & Africa Power SiC Devices Revenue by Country (2018-2023)

8.2 Middle East & Africa Power SiC Devices Sales by Type

8.3 Middle East & Africa Power SiC Devices Sales by Application

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Power SiC Devices

10.3 Manufacturing Process Analysis of Power SiC Devices

10.4 Industry Chain Structure of Power SiC Devices

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Power SiC Devices Distributors

11.3 Power SiC Devices Customer

12 WORLD FORECAST REVIEW FOR POWER SiC DEVICES BY GEOGRAPHIC REGION

12.1 Global Power SiC Devices Market Size Forecast by Region

12.1.1 Global Power SiC Devices Forecast by Region (2024-2029)

- 12.1.2 Global Power SiC Devices Annual Revenue Forecast by Region (2024-2029)
- 12.2 Americas Forecast by Country
- 12.3 APAC Forecast by Region
- 12.4 Europe Forecast by Country
- 12.5 Middle East & Africa Forecast by Country
- 12.6 Global Power SiC Devices Forecast by Type
- 12.7 Global Power SiC Devices Forecast by Application

13 KEY PLAYERS ANALYSIS

13.1 STMicroelectronics

- 13.1.1 STMicroelectronics Company Information
- 13.1.2 STMicroelectronics Power SiC Devices Product Portfolios and Specifications
- 13.1.3 STMicroelectronics Power SiC Devices Sales, Revenue, Price and Gross Margin (2018-2023)
- 13.1.4 STMicroelectronics Main Business Overview
- 13.1.5 STMicroelectronics Latest Developments

13.2 Infineon

- 13.2.1 Infineon Company Information
- 13.2.2 Infineon Power SiC Devices Product Portfolios and Specifications
- 13.2.3 Infineon Power SiC Devices Sales, Revenue, Price and Gross Margin (2018-2023)
- 13.2.4 Infineon Main Business Overview
- 13.2.5 Infineon Latest Developments

13.3 Wolfspeed

- 13.3.1 Wolfspeed Company Information
- 13.3.2 Wolfspeed Power SiC Devices Product Portfolios and Specifications
- 13.3.3 Wolfspeed Power SiC Devices Sales, Revenue, Price and Gross Margin (2018-2023)
- 13.3.4 Wolfspeed Main Business Overview
- 13.3.5 Wolfspeed Latest Developments

13.4 Rohm

- 13.4.1 Rohm Company Information
- 13.4.2 Rohm Power SiC Devices Product Portfolios and Specifications
- 13.4.3 Rohm Power SiC Devices Sales, Revenue, Price and Gross Margin (2018-2023)
- 13.4.4 Rohm Main Business Overview
- 13.4.5 Rohm Latest Developments

13.5 onsemi

- 13.5.1 onsemi Company Information
- 13.5.2 onsemi Power SiC Devices Product Portfolios and Specifications
- 13.5.3 onsemi Power SiC Devices Sales, Revenue, Price and Gross Margin (2018-2023)
- 13.5.4 onsemi Main Business Overview
- 13.5.5 onsemi Latest Developments
- 13.6 BYD Semiconductor
 - 13.6.1 BYD Semiconductor Company Information
 - 13.6.2 BYD Semiconductor Power SiC Devices Product Portfolios and Specifications
 - 13.6.3 BYD Semiconductor Power SiC Devices Sales, Revenue, Price and Gross Margin (2018-2023)
 - 13.6.4 BYD Semiconductor Main Business Overview
 - 13.6.5 BYD Semiconductor Latest Developments
- 13.7 Microchip (Microsemi)
 - 13.7.1 Microchip (Microsemi) Company Information
 - 13.7.2 Microchip (Microsemi) Power SiC Devices Product Portfolios and Specifications
 - 13.7.3 Microchip (Microsemi) Power SiC Devices Sales, Revenue, Price and Gross Margin (2018-2023)
 - 13.7.4 Microchip (Microsemi) Main Business Overview
 - 13.7.5 Microchip (Microsemi) Latest Developments
- 13.8 Mitsubishi Electric (Vincotech)
 - 13.8.1 Mitsubishi Electric (Vincotech) Company Information
 - 13.8.2 Mitsubishi Electric (Vincotech) Power SiC Devices Product Portfolios and Specifications
 - 13.8.3 Mitsubishi Electric (Vincotech) Power SiC Devices Sales, Revenue, Price and Gross Margin (2018-2023)
 - 13.8.4 Mitsubishi Electric (Vincotech) Main Business Overview
 - 13.8.5 Mitsubishi Electric (Vincotech) Latest Developments
- 13.9 Semikron Danfoss
 - 13.9.1 Semikron Danfoss Company Information
 - 13.9.2 Semikron Danfoss Power SiC Devices Product Portfolios and Specifications
 - 13.9.3 Semikron Danfoss Power SiC Devices Sales, Revenue, Price and Gross Margin (2018-2023)
 - 13.9.4 Semikron Danfoss Main Business Overview
 - 13.9.5 Semikron Danfoss Latest Developments
- 13.10 Fuji Electric
 - 13.10.1 Fuji Electric Company Information
 - 13.10.2 Fuji Electric Power SiC Devices Product Portfolios and Specifications
 - 13.10.3 Fuji Electric Power SiC Devices Sales, Revenue, Price and Gross Margin

(2018-2023)

13.10.4 Fuji Electric Main Business Overview

13.10.5 Fuji Electric Latest Developments

13.11 Navitas (GeneSiC)

13.11.1 Navitas (GeneSiC) Company Information

13.11.2 Navitas (GeneSiC) Power SiC Devices Product Portfolios and Specifications

13.11.3 Navitas (GeneSiC) Power SiC Devices Sales, Revenue, Price and Gross

Margin (2018-2023)

13.11.4 Navitas (GeneSiC) Main Business Overview

13.11.5 Navitas (GeneSiC) Latest Developments

13.12 Toshiba

13.12.1 Toshiba Company Information

13.12.2 Toshiba Power SiC Devices Product Portfolios and Specifications

13.12.3 Toshiba Power SiC Devices Sales, Revenue, Price and Gross Margin

(2018-2023)

13.12.4 Toshiba Main Business Overview

13.12.5 Toshiba Latest Developments

13.13 Qorvo (UnitedSiC)

13.13.1 Qorvo (UnitedSiC) Company Information

13.13.2 Qorvo (UnitedSiC) Power SiC Devices Product Portfolios and Specifications

13.13.3 Qorvo (UnitedSiC) Power SiC Devices Sales, Revenue, Price and Gross

Margin (2018-2023)

13.13.4 Qorvo (UnitedSiC) Main Business Overview

13.13.5 Qorvo (UnitedSiC) Latest Developments

13.14 San'an Optoelectronics

13.14.1 San'an Optoelectronics Company Information

13.14.2 San'an Optoelectronics Power SiC Devices Product Portfolios and

Specifications

13.14.3 San'an Optoelectronics Power SiC Devices Sales, Revenue, Price and Gross

Margin (2018-2023)

13.14.4 San'an Optoelectronics Main Business Overview

13.14.5 San'an Optoelectronics Latest Developments

13.15 Littelfuse (IXYS)

13.15.1 Littelfuse (IXYS) Company Information

13.15.2 Littelfuse (IXYS) Power SiC Devices Product Portfolios and Specifications

13.15.3 Littelfuse (IXYS) Power SiC Devices Sales, Revenue, Price and Gross Margin

(2018-2023)

13.15.4 Littelfuse (IXYS) Main Business Overview

13.15.5 Littelfuse (IXYS) Latest Developments

13.16 CETC

13.16.1 CETC 55 Company Information

13.16.2 CETC 55 Power SiC Devices Product Portfolios and Specifications

13.16.3 CETC 55 Power SiC Devices Sales, Revenue, Price and Gross Margin
(2018-2023)

13.16.4 CETC 55 Main Business Overview

13.16.5 CETC 55 Latest Developments

13.17 WeEn Semiconductors

13.17.1 WeEn Semiconductors Company Information

13.17.2 WeEn Semiconductors Power SiC Devices Product Portfolios and
Specifications

13.17.3 WeEn Semiconductors Power SiC Devices Sales, Revenue, Price and Gross
Margin (2018-2023)

13.17.4 WeEn Semiconductors Main Business Overview

13.17.5 WeEn Semiconductors Latest Developments

13.18 BASiC Semiconductor

13.18.1 BASiC Semiconductor Company Information

13.18.2 BASiC Semiconductor Power SiC Devices Product Portfolios and
Specifications

13.18.3 BASiC Semiconductor Power SiC Devices Sales, Revenue, Price and Gross
Margin (2018-2023)

13.18.4 BASiC Semiconductor Main Business Overview

13.18.5 BASiC Semiconductor Latest Developments

13.19 SemiQ

13.19.1 SemiQ Company Information

13.19.2 SemiQ Power SiC Devices Product Portfolios and Specifications

13.19.3 SemiQ Power SiC Devices Sales, Revenue, Price and Gross Margin
(2018-2023)

13.19.4 SemiQ Main Business Overview

13.19.5 SemiQ Latest Developments

13.20 Diodes Incorporated

13.20.1 Diodes Incorporated Company Information

13.20.2 Diodes Incorporated Power SiC Devices Product Portfolios and Specifications

13.20.3 Diodes Incorporated Power SiC Devices Sales, Revenue, Price and Gross
Margin (2018-2023)

13.20.4 Diodes Incorporated Main Business Overview

13.20.5 Diodes Incorporated Latest Developments

13.21 SanRex

13.21.1 SanRex Company Information

- 13.21.2 SanRex Power SiC Devices Product Portfolios and Specifications
- 13.21.3 SanRex Power SiC Devices Sales, Revenue, Price and Gross Margin (2018-2023)
 - 13.21.4 SanRex Main Business Overview
 - 13.21.5 SanRex Latest Developments
- 13.22 Alpha & Omega Semiconductor
 - 13.22.1 Alpha & Omega Semiconductor Company Information
 - 13.22.2 Alpha & Omega Semiconductor Power SiC Devices Product Portfolios and Specifications
 - 13.22.3 Alpha & Omega Semiconductor Power SiC Devices Sales, Revenue, Price and Gross Margin (2018-2023)
 - 13.22.4 Alpha & Omega Semiconductor Main Business Overview
 - 13.22.5 Alpha & Omega Semiconductor Latest Developments
- 13.23 Bosch
 - 13.23.1 Bosch Company Information
 - 13.23.2 Bosch Power SiC Devices Product Portfolios and Specifications
 - 13.23.3 Bosch Power SiC Devices Sales, Revenue, Price and Gross Margin (2018-2023)
 - 13.23.4 Bosch Main Business Overview
 - 13.23.5 Bosch Latest Developments
- 13.24 GE Aerospace
 - 13.24.1 GE Aerospace Company Information
 - 13.24.2 GE Aerospace Power SiC Devices Product Portfolios and Specifications
 - 13.24.3 GE Aerospace Power SiC Devices Sales, Revenue, Price and Gross Margin (2018-2023)
 - 13.24.4 GE Aerospace Main Business Overview
 - 13.24.5 GE Aerospace Latest Developments
- 13.25 KEC Corporation
 - 13.25.1 KEC Corporation Company Information
 - 13.25.2 KEC Corporation Power SiC Devices Product Portfolios and Specifications
 - 13.25.3 KEC Corporation Power SiC Devices Sales, Revenue, Price and Gross Margin (2018-2023)
 - 13.25.4 KEC Corporation Main Business Overview
 - 13.25.5 KEC Corporation Latest Developments
- 13.26 PANJIT Group
 - 13.26.1 PANJIT Group Company Information
 - 13.26.2 PANJIT Group Power SiC Devices Product Portfolios and Specifications
 - 13.26.3 PANJIT Group Power SiC Devices Sales, Revenue, Price and Gross Margin (2018-2023)

- 13.26.4 PANJIT Group Main Business Overview
- 13.26.5 PANJIT Group Latest Developments
- 13.27 Nexperia
 - 13.27.1 Nexperia Company Information
 - 13.27.2 Nexperia Power SiC Devices Product Portfolios and Specifications
 - 13.27.3 Nexperia Power SiC Devices Sales, Revenue, Price and Gross Margin (2018-2023)
 - 13.27.4 Nexperia Main Business Overview
 - 13.27.5 Nexperia Latest Developments
- 13.28 Vishay Intertechnology
 - 13.28.1 Vishay Intertechnology Company Information
 - 13.28.2 Vishay Intertechnology Power SiC Devices Product Portfolios and Specifications
 - 13.28.3 Vishay Intertechnology Power SiC Devices Sales, Revenue, Price and Gross Margin (2018-2023)
 - 13.28.4 Vishay Intertechnology Main Business Overview
 - 13.28.5 Vishay Intertechnology Latest Developments
- 13.29 Zhuzhou CRRC Times Electric
 - 13.29.1 Zhuzhou CRRC Times Electric Company Information
 - 13.29.2 Zhuzhou CRRC Times Electric Power SiC Devices Product Portfolios and Specifications
 - 13.29.3 Zhuzhou CRRC Times Electric Power SiC Devices Sales, Revenue, Price and Gross Margin (2018-2023)
 - 13.29.4 Zhuzhou CRRC Times Electric Main Business Overview
 - 13.29.5 Zhuzhou CRRC Times Electric Latest Developments
- 13.30 China Resources Microelectronics Limited
 - 13.30.1 China Resources Microelectronics Limited Company Information
 - 13.30.2 China Resources Microelectronics Limited Power SiC Devices Product Portfolios and Specifications
 - 13.30.3 China Resources Microelectronics Limited Power SiC Devices Sales, Revenue, Price and Gross Margin (2018-2023)
 - 13.30.4 China Resources Microelectronics Limited Main Business Overview
 - 13.30.5 China Resources Microelectronics Limited Latest Developments
- 13.31 StarPower
- 13.32 Yangzhou Yangjie Electronic Technology
- 13.33 Guangdong AccoPower Semiconductor
- 13.34 Changzhou Galaxy Century Microelectronics
- 13.35 Hangzhou Silan Microelectronics
- 13.36 Cissoid

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. Power SiC Devices Annual Sales CAGR by Geographic Region (2018, 2022 & 2029) & (\$ millions)
- Table 2. Power SiC Devices Annual Sales CAGR by Country/Region (2018, 2022 & 2029) & (\$ millions)
- Table 3. Major Players of SiC MOSFET Module
- Table 4. Major Players of SiC MOSFET Discrete
- Table 5. Major Players of SiC Diode (SiC SBD)
- Table 6. Major Players of Others (SiC JFETs & FETs)
- Table 7. Global Power SiC Devices Sales by Type (2018-2023) & (K Units)
- Table 8. Global Power SiC Devices Sales Market Share by Type (2018-2023)
- Table 9. Global Power SiC Devices Revenue by Type (2018-2023) & (\$ million)
- Table 10. Global Power SiC Devices Revenue Market Share by Type (2018-2023)
- Table 11. Global Power SiC Devices Sale Price by Type (2018-2023) & (US\$/Unit)
- Table 12. Global Power SiC Devices Sales by Application (2018-2023) & (K Units)
- Table 13. Global Power SiC Devices Sales Market Share by Application (2018-2023)
- Table 14. Global Power SiC Devices Revenue by Application (2018-2023)
- Table 15. Global Power SiC Devices Revenue Market Share by Application (2018-2023)
- Table 16. Global Power SiC Devices Sale Price by Application (2018-2023) & (US\$/Unit)
- Table 17. Global Power SiC Devices Sales by Company (2018-2023) & (K Units)
- Table 18. Global Power SiC Devices Sales Market Share by Company (2018-2023)
- Table 19. Global Power SiC Devices Revenue by Company (2018-2023) (\$ Millions)
- Table 20. Global Power SiC Devices Revenue Market Share by Company (2018-2023)
- Table 21. Global Power SiC Devices Sale Price by Company (2018-2023) & (US\$/Unit)
- Table 22. Key Manufacturers Power SiC Devices Producing Area Distribution and Sales Area
- Table 23. Players Power SiC Devices Products Offered
- Table 24. Power SiC Devices Concentration Ratio (CR3, CR5 and CR10) & (2018-2023)
- Table 25. New Products and Potential Entrants
- Table 26. Mergers & Acquisitions, Expansion
- Table 27. Global Power SiC Devices Sales by Geographic Region (2018-2023) & (K Units)
- Table 28. Global Power SiC Devices Sales Market Share Geographic Region (2018-2023)

Table 29. Global Power SiC Devices Revenue by Geographic Region (2018-2023) & (\$ millions)

Table 30. Global Power SiC Devices Revenue Market Share by Geographic Region (2018-2023)

Table 31. Global Power SiC Devices Sales by Country/Region (2018-2023) & (K Units)

Table 32. Global Power SiC Devices Sales Market Share by Country/Region (2018-2023)

Table 33. Global Power SiC Devices Revenue by Country/Region (2018-2023) & (\$ millions)

Table 34. Global Power SiC Devices Revenue Market Share by Country/Region (2018-2023)

Table 35. Americas Power SiC Devices Sales by Country (2018-2023) & (K Units)

Table 36. Americas Power SiC Devices Sales Market Share by Country (2018-2023)

Table 37. Americas Power SiC Devices Revenue by Country (2018-2023) & (\$ Millions)

Table 38. Americas Power SiC Devices Revenue Market Share by Country (2018-2023)

Table 39. Americas Power SiC Devices Sales by Type (2018-2023) & (K Units)

Table 40. Americas Power SiC Devices Sales by Application (2018-2023) & (K Units)

Table 41. APAC Power SiC Devices Sales by Region (2018-2023) & (K Units)

Table 42. APAC Power SiC Devices Sales Market Share by Region (2018-2023)

Table 43. APAC Power SiC Devices Revenue by Region (2018-2023) & (\$ Millions)

Table 44. APAC Power SiC Devices Revenue Market Share by Region (2018-2023)

Table 45. APAC Power SiC Devices Sales by Type (2018-2023) & (K Units)

Table 46. APAC Power SiC Devices Sales by Application (2018-2023) & (K Units)

Table 47. Europe Power SiC Devices Sales by Country (2018-2023) & (K Units)

Table 48. Europe Power SiC Devices Sales Market Share by Country (2018-2023)

Table 49. Europe Power SiC Devices Revenue by Country (2018-2023) & (\$ Millions)

Table 50. Europe Power SiC Devices Revenue Market Share by Country (2018-2023)

Table 51. Europe Power SiC Devices Sales by Type (2018-2023) & (K Units)

Table 52. Europe Power SiC Devices Sales by Application (2018-2023) & (K Units)

Table 53. Middle East & Africa Power SiC Devices Sales by Country (2018-2023) & (K Units)

Table 54. Middle East & Africa Power SiC Devices Sales Market Share by Country (2018-2023)

Table 55. Middle East & Africa Power SiC Devices Revenue by Country (2018-2023) & (\$ Millions)

Table 56. Middle East & Africa Power SiC Devices Revenue Market Share by Country (2018-2023)

Table 57. Middle East & Africa Power SiC Devices Sales by Type (2018-2023) & (K Units)

- Table 58. Middle East & Africa Power SiC Devices Sales by Application (2018-2023) & (K Units)
- Table 59. Key Market Drivers & Growth Opportunities of Power SiC Devices
- Table 60. Key Market Challenges & Risks of Power SiC Devices
- Table 61. Key Industry Trends of Power SiC Devices
- Table 62. Power SiC Devices Raw Material
- Table 63. Key Suppliers of Raw Materials
- Table 64. Power SiC Devices Distributors List
- Table 65. Power SiC Devices Customer List
- Table 66. Global Power SiC Devices Sales Forecast by Region (2024-2029) & (K Units)
- Table 67. Global Power SiC Devices Revenue Forecast by Region (2024-2029) & (\$ millions)
- Table 68. Americas Power SiC Devices Sales Forecast by Country (2024-2029) & (K Units)
- Table 69. Americas Power SiC Devices Revenue Forecast by Country (2024-2029) & (\$ millions)
- Table 70. APAC Power SiC Devices Sales Forecast by Region (2024-2029) & (K Units)
- Table 71. APAC Power SiC Devices Revenue Forecast by Region (2024-2029) & (\$ millions)
- Table 72. Europe Power SiC Devices Sales Forecast by Country (2024-2029) & (K Units)
- Table 73. Europe Power SiC Devices Revenue Forecast by Country (2024-2029) & (\$ millions)
- Table 74. Middle East & Africa Power SiC Devices Sales Forecast by Country (2024-2029) & (K Units)
- Table 75. Middle East & Africa Power SiC Devices Revenue Forecast by Country (2024-2029) & (\$ millions)
- Table 76. Global Power SiC Devices Sales Forecast by Type (2024-2029) & (K Units)
- Table 77. Global Power SiC Devices Revenue Forecast by Type (2024-2029) & (\$ Millions)
- Table 78. Global Power SiC Devices Sales Forecast by Application (2024-2029) & (K Units)
- Table 79. Global Power SiC Devices Revenue Forecast by Application (2024-2029) & (\$ Millions)
- Table 80. STMicroelectronics Basic Information, Power SiC Devices Manufacturing Base, Sales Area and Its Competitors
- Table 81. STMicroelectronics Power SiC Devices Product Portfolios and Specifications
- Table 82. STMicroelectronics Power SiC Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

- Table 83. STMicroelectronics Main Business
- Table 84. STMicroelectronics Latest Developments
- Table 85. Infineon Basic Information, Power SiC Devices Manufacturing Base, Sales Area and Its Competitors
- Table 86. Infineon Power SiC Devices Product Portfolios and Specifications
- Table 87. Infineon Power SiC Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)
- Table 88. Infineon Main Business
- Table 89. Infineon Latest Developments
- Table 90. Wolfspeed Basic Information, Power SiC Devices Manufacturing Base, Sales Area and Its Competitors
- Table 91. Wolfspeed Power SiC Devices Product Portfolios and Specifications
- Table 92. Wolfspeed Power SiC Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)
- Table 93. Wolfspeed Main Business
- Table 94. Wolfspeed Latest Developments
- Table 95. Rohm Basic Information, Power SiC Devices Manufacturing Base, Sales Area and Its Competitors
- Table 96. Rohm Power SiC Devices Product Portfolios and Specifications
- Table 97. Rohm Power SiC Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)
- Table 98. Rohm Main Business
- Table 99. Rohm Latest Developments
- Table 100. onsemi Basic Information, Power SiC Devices Manufacturing Base, Sales Area and Its Competitors
- Table 101. onsemi Power SiC Devices Product Portfolios and Specifications
- Table 102. onsemi Power SiC Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)
- Table 103. onsemi Main Business
- Table 104. onsemi Latest Developments
- Table 105. BYD Semiconductor Basic Information, Power SiC Devices Manufacturing Base, Sales Area and Its Competitors
- Table 106. BYD Semiconductor Power SiC Devices Product Portfolios and Specifications
- Table 107. BYD Semiconductor Power SiC Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)
- Table 108. BYD Semiconductor Main Business
- Table 109. BYD Semiconductor Latest Developments
- Table 110. Microchip (Microsemi) Basic Information, Power SiC Devices Manufacturing

Base, Sales Area and Its Competitors

Table 111. Microchip (Microsemi) Power SiC Devices Product Portfolios and Specifications

Table 112. Microchip (Microsemi) Power SiC Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 113. Microchip (Microsemi) Main Business

Table 114. Microchip (Microsemi) Latest Developments

Table 115. Mitsubishi Electric (Vincotech) Basic Information, Power SiC Devices Manufacturing Base, Sales Area and Its Competitors

Table 116. Mitsubishi Electric (Vincotech) Power SiC Devices Product Portfolios and Specifications

Table 117. Mitsubishi Electric (Vincotech) Power SiC Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 118. Mitsubishi Electric (Vincotech) Main Business

Table 119. Mitsubishi Electric (Vincotech) Latest Developments

Table 120. Semikron Danfoss Basic Information, Power SiC Devices Manufacturing Base, Sales Area and Its Competitors

Table 121. Semikron Danfoss Power SiC Devices Product Portfolios and Specifications

Table 122. Semikron Danfoss Power SiC Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 123. Semikron Danfoss Main Business

Table 124. Semikron Danfoss Latest Developments

Table 125. Fuji Electric Basic Information, Power SiC Devices Manufacturing Base, Sales Area and Its Competitors

Table 126. Fuji Electric Power SiC Devices Product Portfolios and Specifications

Table 127. Fuji Electric Power SiC Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 128. Fuji Electric Main Business

Table 129. Fuji Electric Latest Developments

Table 130. Navitas (GeneSiC) Basic Information, Power SiC Devices Manufacturing Base, Sales Area and Its Competitors

Table 131. Navitas (GeneSiC) Power SiC Devices Product Portfolios and Specifications

Table 132. Navitas (GeneSiC) Power SiC Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 133. Navitas (GeneSiC) Main Business

Table 134. Navitas (GeneSiC) Latest Developments

Table 135. Toshiba Basic Information, Power SiC Devices Manufacturing Base, Sales Area and Its Competitors

Table 136. Toshiba Power SiC Devices Product Portfolios and Specifications

Table 137. Toshiba Power SiC Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 138. Toshiba Main Business

Table 139. Toshiba Latest Developments

Table 140. Qorvo (UnitedSiC) Basic Information, Power SiC Devices Manufacturing Base, Sales Area and Its Competitors

Table 141. Qorvo (UnitedSiC) Power SiC Devices Product Portfolios and Specifications

Table 142. Qorvo (UnitedSiC) Power SiC Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 143. Qorvo (UnitedSiC) Main Business

Table 144. Qorvo (UnitedSiC) Latest Developments

Table 145. San'an Optoelectronics Basic Information, Power SiC Devices Manufacturing Base, Sales Area and Its Competitors

Table 146. San'an Optoelectronics Power SiC Devices Product Portfolios and Specifications

Table 147. San'an Optoelectronics Power SiC Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 148. San'an Optoelectronics Main Business

Table 149. San'an Optoelectronics Latest Developments

Table 150. Littelfuse (IXYS) Basic Information, Power SiC Devices Manufacturing Base, Sales Area and Its Competitors

Table 151. Littelfuse (IXYS) Power SiC Devices Product Portfolios and Specifications

Table 152. Littelfuse (IXYS) Power SiC Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 153. Littelfuse (IXYS) Main Business

Table 154. Littelfuse (IXYS) Latest Developments

Table 155. CETC 55 Basic Information, Power SiC Devices Manufacturing Base, Sales Area and Its Competitors

Table 156. CETC 55 Power SiC Devices Product Portfolios and Specifications

Table 157. CETC 55 Power SiC Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 158. CETC 55 Main Business

Table 159. CETC 55 Latest Developments

Table 160. WeEn Semiconductors Basic Information, Power SiC Devices Manufacturing Base, Sales Area and Its Competitors

Table 161. WeEn Semiconductors Power SiC Devices Product Portfolios and Specifications

Table 162. WeEn Semiconductors Power SiC Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 163. WeEn Semiconductors Main Business

Table 164. WeEn Semiconductors Latest Developments

Table 165. BASiC Semiconductor Basic Information, Power SiC Devices Manufacturing Base, Sales Area and Its Competitors

Table 166. BASiC Semiconductor Power SiC Devices Product Portfolios and Specifications

Table 167. BASiC Semiconductor Power SiC Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 168. BASiC Semiconductor Main Business

Table 169. BASiC Semiconductor Latest Developments

Table 170. SemiQ Basic Information, Power SiC Devices Manufacturing Base, Sales Area and Its Competitors

Table 171. SemiQ Power SiC Devices Product Portfolios and Specifications

Table 172. SemiQ Power SiC Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 173. SemiQ Main Business

Table 174. SemiQ Latest Developments

Table 175. Diodes Incorporated Basic Information, Power SiC Devices Manufacturing Base, Sales Area and Its Competitors

Table 176. Diodes Incorporated Power SiC Devices Product Portfolios and Specifications

Table 177. Diodes Incorporated Power SiC Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 178. Diodes Incorporated Main Business

Table 179. Diodes Incorporated Latest Developments

Table 180. SanRex Basic Information, Power SiC Devices Manufacturing Base, Sales Area and Its Competitors

Table 181. SanRex Power SiC Devices Product Portfolios and Specifications

Table 182. SanRex Power SiC Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 183. SanRex Main Business

Table 184. SanRex Latest Developments

Table 185. Alpha & Omega Semiconductor Basic Information, Power SiC Devices Manufacturing Base, Sales Area and Its Competitors

Table 186. Alpha & Omega Semiconductor Power SiC Devices Product Portfolios and Specifications

Table 187. Alpha & Omega Semiconductor Power SiC Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 188. Alpha & Omega Semiconductor Main Business

- Table 189. Alpha & Omega Semiconductor Latest Developments
- Table 190. Bosch Basic Information, Power SiC Devices Manufacturing Base, Sales Area and Its Competitors
- Table 191. Bosch Power SiC Devices Product Portfolios and Specifications
- Table 192. Bosch Power SiC Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)
- Table 193. Bosch Main Business
- Table 194. Bosch Latest Developments
- Table 195. GE Aerospace Basic Information, Power SiC Devices Manufacturing Base, Sales Area and Its Competitors
- Table 196. GE Aerospace Power SiC Devices Product Portfolios and Specifications
- Table 197. GE Aerospace Power SiC Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)
- Table 198. GE Aerospace Main Business
- Table 199. GE Aerospace Latest Developments
- Table 200. KEC Corporation Basic Information, Power SiC Devices Manufacturing Base, Sales Area and Its Competitors
- Table 201. KEC Corporation Power SiC Devices Product Portfolios and Specifications
- Table 202. KEC Corporation Power SiC Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)
- Table 203. KEC Corporation Main Business
- Table 204. KEC Corporation Latest Developments
- Table 205. PANJIT Group Basic Information, Power SiC Devices Manufacturing Base, Sales Area and Its Competitors
- Table 206. PANJIT Group Power SiC Devices Product Portfolios and Specifications
- Table 207. PANJIT Group Power SiC Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)
- Table 208. PANJIT Group Main Business
- Table 209. PANJIT Group Latest Developments
- Table 210. Nexperia Basic Information, Power SiC Devices Manufacturing Base, Sales Area and Its Competitors
- Table 211. Nexperia Power SiC Devices Product Portfolios and Specifications
- Table 212. Nexperia Power SiC Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)
- Table 213. Nexperia Main Business
- Table 214. Nexperia Latest Developments
- Table 215. Vishay Intertechnology Basic Information, Power SiC Devices Manufacturing Base, Sales Area and Its Competitors
- Table 216. Vishay Intertechnology Power SiC Devices Product Portfolios and

Specifications

Table 217. Vishay Intertechnology Power SiC Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 218. Vishay Intertechnology Main Business

Table 219. Vishay Intertechnology Latest Developments

Table 220. Zhuzhou CRRC Times Electric Basic Information, Power SiC Devices Manufacturing Base, Sales Area and Its Competitors

Table 221. Zhuzhou CRRC Times Electric Power SiC Devices Product Portfolios and Specifications

Table 222. Zhuzhou CRRC Times Electric Power SiC Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 223. Zhuzhou CRRC Times Electric Main Business

Table 224. Zhuzhou CRRC Times Electric Latest Developments

Table 225. China Resources Microelectronics Limited Basic Information, Power SiC Devices Manufacturing Base, Sales Area and Its Competitors

Table 226. China Resources Microelectronics Limited Power SiC Devices Product Portfolios and Specifications

Table 227. China Resources Microelectronics Limited Power SiC Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 228. China Resources Microelectronics Limited Main Business

Table 229. China Resources Microelectronics Limited Latest Developments

Table 230. StarPower Basic Information, Power SiC Devices Manufacturing Base, Sales Area and Its Competitors

Table 231. StarPower Power SiC Devices Product Portfolios and Specifications

Table 232. StarPower Power SiC Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 233. StarPower Main Business

Table 234. StarPower Latest Developments

Table 235. Yangzhou Yangjie Electronic Technology Basic Information, Power SiC Devices Manufacturing Base, Sales Area and Its Competitors

Table 236. Yangzhou Yangjie Electronic Technology Power SiC Devices Product Portfolios and Specifications

Table 237. Yangzhou Yangjie Electronic Technology Power SiC Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 238. Yangzhou Yangjie Electronic Technology Main Business

Table 239. Yangzhou Yangjie Electronic Technology Latest Developments

Table 240. Guangdong AccoPower Semiconductor Basic Information, Power SiC Devices Manufacturing Base, Sales Area and Its Competitors

Table 241. Guangdong AccoPower Semiconductor Power SiC Devices Product

Portfolios and Specifications

Table 242. Guangdong AccoPower Semiconductor Power SiC Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 243. Guangdong AccoPower Semiconductor Main Business

Table 244. Guangdong AccoPower Semiconductor Latest Developments

Table 245. Changzhou Galaxy Century Microelectronics Basic Information, Power SiC Devices Manufacturing Base, Sales Area and Its Competitors

Table 246. Changzhou Galaxy Century Microelectronics Power SiC Devices Product Portfolios and Specifications

Table 247. Changzhou Galaxy Century Microelectronics Power SiC Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 248. Changzhou Galaxy Century Microelectronics Main Business

Table 249. Changzhou Galaxy Century Microelectronics Latest Developments

Table 250. Hangzhou Silan Microelectronics Basic Information, Power SiC Devices Manufacturing Base, Sales Area and Its Competitors

Table 251. Hangzhou Silan Microelectronics Power SiC Devices Product Portfolios and Specifications

Table 252. Hangzhou Silan Microelectronics Power SiC Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 253. Hangzhou Silan Microelectronics Main Business

Table 254. Hangzhou Silan Microelectronics Latest Developments

Table 255. Cissoid Basic Information, Power SiC Devices Manufacturing Base, Sales Area and Its Competitors

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Power SiC Devices
- Figure 2. Power SiC Devices Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Power SiC Devices Sales Growth Rate 2018-2029 (K Units)
- Figure 7. Global Power SiC Devices Revenue Growth Rate 2018-2029 (\$ Millions)
- Figure 8. Power SiC Devices Sales by Region (2018, 2022 & 2029) & (\$ Millions)
- Figure 9. Product Picture of SiC MOSFET Module
- Figure 10. Product Picture of SiC MOSFET Discrete
- Figure 11. Product Picture of SiC Diode (SiC SBD)
- Figure 12. Product Picture of Others (SiC JFETs & FETs)
- Figure 13. Global Power SiC Devices Sales Market Share by Type in 2022
- Figure 14. Global Power SiC Devices Revenue Market Share by Type (2018-2023)
- Figure 15. Power SiC Devices Consumed in Automotive & EV/HEV
- Figure 16. Global Power SiC Devices Market: Automotive & EV/HEV (2018-2023) & (K Units)
- Figure 17. Power SiC Devices Consumed in EV Charging
- Figure 18. Global Power SiC Devices Market: EV Charging (2018-2023) & (K Units)
- Figure 19. Power SiC Devices Consumed in Industrial Motor/Drive
- Figure 20. Global Power SiC Devices Market: Industrial Motor/Drive (2018-2023) & (K Units)
- Figure 21. Power SiC Devices Consumed in PV, Energy Storage, Wind Power
- Figure 22. Global Power SiC Devices Market: PV, Energy Storage, Wind Power (2018-2023) & (K Units)
- Figure 23. Power SiC Devices Consumed in UPS, Data Center & Server
- Figure 24. Global Power SiC Devices Market: UPS, Data Center & Server (2018-2023) & (K Units)
- Figure 25. Power SiC Devices Consumed in Rail Transport
- Figure 26. Global Power SiC Devices Market: Rail Transport (2018-2023) & (K Units)
- Figure 27. Power SiC Devices Consumed in Others
- Figure 28. Global Power SiC Devices Market: Others (2018-2023) & (K Units)
- Figure 29. Global Power SiC Devices Sales Market Share by Application (2022)
- Figure 30. Global Power SiC Devices Revenue Market Share by Application in 2022
- Figure 31. Power SiC Devices Sales Market by Company in 2022 (K Units)

Figure 32. Global Power SiC Devices Sales Market Share by Company in 2022

Figure 33. Power SiC Devices Revenue Market by Company in 2022 (\$ Million)

Figure 34. Global Power SiC Devices Revenue Market Share by Company in 2022

Figure 35. Global Power SiC Devices Sales Market Share by Geographic Region (2018-2023)

Figure 36. Global Power SiC Devices Revenue Market Share by Geographic Region in 2022

Figure 37. Americas Power SiC Devices Sales 2018-2023 (K Units)

Figure 38. Americas Power SiC Devices Revenue 2018-2023 (\$ Millions)

Figure 39. APAC Power SiC Devices Sales 2018-2023 (K Units)

Figure 40. APAC Power SiC Devices Revenue 2018-2023 (\$ Millions)

Figure 41. Europe Power SiC Devices Sales 2018-2023 (K Units)

Figure 42. Europe Power SiC Devices Revenue 2018-2023 (\$ Millions)

Figure 43. Middle East & Africa Power SiC Devices Sales 2018-2023 (K Units)

Figure 44. Middle East & Africa Power SiC Devices Revenue 2018-2023 (\$ Millions)

Figure 45. Americas Power SiC Devices Sales Market Share by Country in 2022

Figure 46. Americas Power SiC Devices Revenue Market Share by Country in 2022

Figure 47. Americas Power SiC Devices Sales Market Share by Type (2018-2023)

Figure 48. Americas Power SiC Devices Sales Market Share by Application (2018-2023)

Figure 49. United States Power SiC Devices Revenue Growth 2018-2023 (\$ Millions)

Figure 50. Canada Power SiC Devices Revenue Growth 2018-2023 (\$ Millions)

Figure 51. Mexico Power SiC Devices Revenue Growth 2018-2023 (\$ Millions)

Figure 52. Brazil Power SiC Devices Revenue Growth 2018-2023 (\$ Millions)

Figure 53. APAC Power SiC Devices Sales Market Share by Region in 2022

Figure 54. APAC Power SiC Devices Revenue Market Share by Regions in 2022

Figure 55. APAC Power SiC Devices Sales Market Share by Type (2018-2023)

Figure 56. APAC Power SiC Devices Sales Market Share by Application (2018-2023)

Figure 57. China Power SiC Devices Revenue Growth 2018-2023 (\$ Millions)

Figure 58. Japan Power SiC Devices Revenue Growth 2018-2023 (\$ Millions)

Figure 59. South Korea Power SiC Devices Revenue Growth 2018-2023 (\$ Millions)

Figure 60. Southeast Asia Power SiC Devices Revenue Growth 2018-2023 (\$ Millions)

Figure 61. India Power SiC Devices Revenue Growth 2018-2023 (\$ Millions)

Figure 62. Australia Power SiC Devices Revenue Growth 2018-2023 (\$ Millions)

Figure 63. China Taiwan Power SiC Devices Revenue Growth 2018-2023 (\$ Millions)

Figure 64. Europe Power SiC Devices Sales Market Share by Country in 2022

Figure 65. Europe Power SiC Devices Revenue Market Share by Country in 2022

Figure 66. Europe Power SiC Devices Sales Market Share by Type (2018-2023)

Figure 67. Europe Power SiC Devices Sales Market Share by Application (2018-2023)

Figure 68. Germany Power SiC Devices Revenue Growth 2018-2023 (\$ Millions)

Figure 69. France Power SiC Devices Revenue Growth 2018-2023 (\$ Millions)

Figure 70. UK Power SiC Devices Revenue Growth 2018-2023 (\$ Millions)

Figure 71. Italy Power SiC Devices Revenue Growth 2018-2023 (\$ Millions)

Figure 72. Russia Power SiC Devices Revenue Growth 2018-2023 (\$ Millions)

Figure 73. Middle East & Africa Power SiC Devices Sales Market Share by Country in 2022

Figure 74. Middle East & Africa Power SiC Devices Revenue Market Share by Country in 2022

Figure 75. Middle East & Africa Power SiC Devices Sales Market Share by Type (2018-2023)

Figure 76. Middle East & Africa Power SiC Devices Sales Market Share by Application (2018-2023)

Figure 77. Egypt Power SiC Devices Revenue Growth 2018-2023 (\$ Millions)

Figure 78. South Africa Power SiC Devices Revenue Growth 2018-2023 (\$ Millions)

Figure 79. Israel Power SiC Devices Revenue Growth 2018-2023 (\$ Millions)

Figure 80. Turkey Power SiC Devices Revenue Growth 2018-2023 (\$ Millions)

Figure 81. GCC Country Power SiC Devices Revenue Growth 2018-2023 (\$ Millions)

Figure 82. Manufacturing Cost Structure Analysis of Power SiC Devices in 2022

Figure 83. Manufacturing Process Analysis of Power SiC Devices

Figure 84. Industry Chain Structure of Power SiC Devices

Figure 85. Channels of Distribution

Figure 86. Global Power SiC Devices Sales Market Forecast by Region (2024-2029)

Figure 87. Global Power SiC Devices Revenue Market Share Forecast by Region (2024-2029)

Figure 88. Global Power SiC Devices Sales Market Share Forecast by Type (2024-2029)

Figure 89. Global Power SiC Devices Revenue Market Share Forecast by Type (2024-2029)

Figure 90. Global Power SiC Devices Sales Market Share Forecast by Application (2024-2029)

Figure 91. Global Power SiC Devices Revenue Market Share Forecast by Application (2024-2029)

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