

Global Silicon Carbide Power Chip Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Silicon Carbide Power Chip market size was valued at US\$ 4993 million in 2024 and is forecast to a readjusted size of USD 18350 million by 2031 with a CAGR of 19.9% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Silicon Carbide (SiC) power chips are advanced semiconductor devices built on SiC substrates, leveraging their wide bandgap (3.2 eV), ultra-high breakdown field (2.8 MV/cm), and exceptional thermal conductivity (4.9 W/cm·K) to deliver unparalleled performance in high-voltage, high-frequency, and high-temperature applications. Unlike traditional silicon-based chips, SiC devices exhibit ultra-low on-resistance (RDS(on)). The global SiC power semiconductor market is experiencing rapid growth, driven by the increasing demand for energy-efficient and high-performance power electronics. Technological advancements, such as the development of larger SiC wafers (transitioning from 6-inch to 8-inch) and improved packaging techniques, are enhancing device performance and reducing costs. As industries continue to prioritize energy efficiency and sustainability, SiC power chips are poised to play a pivotal role in the evolution of next-generation power systems across various sectors.

This report is a detailed and comprehensive analysis for global Silicon Carbide Power Chip market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as

well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Silicon Carbide Power Chip market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2020-2031

Global Silicon Carbide Power Chip market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2020-2031

Global Silicon Carbide Power Chip market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2020-2031

Global Silicon Carbide Power Chip market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Silicon Carbide Power Chip
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Silicon Carbide Power Chip market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include STMicroelectronics, Infineon, Wolfspeed, Rohm, onsemi, BYD Semiconductor, Microchip (Microsemi), Mitsubishi Electric (Vincotech), Semikron Danfoss, Fuji Electric, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Silicon Carbide Power Chip market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

SiC MOSFET Modules

SiC MOSFET Discretes

SiC Diode/SBD

Market segment by Application

Automotive & EV/HEV

EV Charging

Industrial Motor/Drive

PV, Energy Storage, Wind Power

UPS, Data Center & Server

Rail Transport

Others

Major players covered

STMicroelectronics

Infineon

Wolfspeed

Rohm

onsemi

BYD Semiconductor

Microchip (Microsemi)

Mitsubishi Electric (Vincotech)

Semikron Danfoss

Fuji Electric

Navitas (GeneSiC)

Toshiba

Qorvo (UnitedSiC)

San'an Optoelectronics

Littelfuse (IXYS)

CETC 55

WeEn Semiconductors

BASiC Semiconductor

SemiQ

Diodes Incorporated

SanRex

Alpha & Omega Semiconductor

Bosch

KEC Corporation

PANJIT Group

Nexperia

Vishay Intertechnology

Zhuzhou CRRC Times Electric

China Resources Microelectronics Limited

StarPower

Yangzhou Yangjie Electronic Technology

Guangdong AccoPower Semiconductor

Changzhou Galaxy Century Microelectronics

Hangzhou Silan Microelectronics

Cisoid

SK powertech

InventChip Technology

Hebei Sinopack Electronic Technology

Oriental Semiconductor

Jilin Sino-Microelectronics

PN Junction Semiconductor (Hangzhou)

United Nova Technology

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Silicon Carbide Power Chip product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Silicon Carbide Power Chip, with price, sales quantity, revenue, and global market share of Silicon Carbide Power Chip from 2020 to 2025.

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

Chapter 4, the Silicon Carbide Power Chip breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Silicon Carbide Power Chip market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Silicon Carbide Power Chip.

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

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Silicon Carbide Power Chip Consumption Value by Type: 2020 Versus 2024 Versus 2031

1.3.2 SiC MOSFET Modules

1.3.3 SiC MOSFET Discretes

1.3.4 SiC Diode/SBD

1.4 Market Analysis by Application

1.4.1 Overview: Global Silicon Carbide Power Chip Consumption Value by Application: 2020 Versus 2024 Versus 2031

1.4.2 Automotive & EV/HEV

1.4.3 EV Charging

1.4.4 Industrial Motor/Drive

1.4.5 PV, Energy Storage, Wind Power

1.4.6 UPS, Data Center & Server

1.4.7 Rail Transport

1.4.8 Others

1.5 Global Silicon Carbide Power Chip Market Size & Forecast

1.5.1 Global Silicon Carbide Power Chip Consumption Value (2020 & 2024 & 2031)

1.5.2 Global Silicon Carbide Power Chip Sales Quantity (2020-2031)

1.5.3 Global Silicon Carbide Power Chip Average Price (2020-2031)

2 MANUFACTURERS PROFILES

2.1 STMicroelectronics

2.1.1 STMicroelectronics Details

2.1.2 STMicroelectronics Major Business

2.1.3 STMicroelectronics Silicon Carbide Power Chip Product and Services

2.1.4 STMicroelectronics Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.1.5 STMicroelectronics Recent Developments/Updates

2.2 Infineon

2.2.1 Infineon Details

2.2.2 Infineon Major Business

- 2.2.3 Infineon Silicon Carbide Power Chip Product and Services
- 2.2.4 Infineon Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.2.5 Infineon Recent Developments/Updates
- 2.3 Wolfspeed
 - 2.3.1 Wolfspeed Details
 - 2.3.2 Wolfspeed Major Business
 - 2.3.3 Wolfspeed Silicon Carbide Power Chip Product and Services
 - 2.3.4 Wolfspeed Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.3.5 Wolfspeed Recent Developments/Updates
- 2.4 Rohm
 - 2.4.1 Rohm Details
 - 2.4.2 Rohm Major Business
 - 2.4.3 Rohm Silicon Carbide Power Chip Product and Services
 - 2.4.4 Rohm Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.4.5 Rohm Recent Developments/Updates
- 2.5 onsemi
 - 2.5.1 onsemi Details
 - 2.5.2 onsemi Major Business
 - 2.5.3 onsemi Silicon Carbide Power Chip Product and Services
 - 2.5.4 onsemi Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.5.5 onsemi Recent Developments/Updates
- 2.6 BYD Semiconductor
 - 2.6.1 BYD Semiconductor Details
 - 2.6.2 BYD Semiconductor Major Business
 - 2.6.3 BYD Semiconductor Silicon Carbide Power Chip Product and Services
 - 2.6.4 BYD Semiconductor Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.6.5 BYD Semiconductor Recent Developments/Updates
- 2.7 Microchip (Microsemi)
 - 2.7.1 Microchip (Microsemi) Details
 - 2.7.2 Microchip (Microsemi) Major Business
 - 2.7.3 Microchip (Microsemi) Silicon Carbide Power Chip Product and Services
 - 2.7.4 Microchip (Microsemi) Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.7.5 Microchip (Microsemi) Recent Developments/Updates

2.8 Mitsubishi Electric (Vincotech)

2.8.1 Mitsubishi Electric (Vincotech) Details

2.8.2 Mitsubishi Electric (Vincotech) Major Business

2.8.3 Mitsubishi Electric (Vincotech) Silicon Carbide Power Chip Product and Services

2.8.4 Mitsubishi Electric (Vincotech) Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.8.5 Mitsubishi Electric (Vincotech) Recent Developments/Updates

2.9 Semikron Danfoss

2.9.1 Semikron Danfoss Details

2.9.2 Semikron Danfoss Major Business

2.9.3 Semikron Danfoss Silicon Carbide Power Chip Product and Services

2.9.4 Semikron Danfoss Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.9.5 Semikron Danfoss Recent Developments/Updates

2.10 Fuji Electric

2.10.1 Fuji Electric Details

2.10.2 Fuji Electric Major Business

2.10.3 Fuji Electric Silicon Carbide Power Chip Product and Services

2.10.4 Fuji Electric Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.10.5 Fuji Electric Recent Developments/Updates

2.11 Navitas (GeneSiC)

2.11.1 Navitas (GeneSiC) Details

2.11.2 Navitas (GeneSiC) Major Business

2.11.3 Navitas (GeneSiC) Silicon Carbide Power Chip Product and Services

2.11.4 Navitas (GeneSiC) Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.11.5 Navitas (GeneSiC) Recent Developments/Updates

2.12 Toshiba

2.12.1 Toshiba Details

2.12.2 Toshiba Major Business

2.12.3 Toshiba Silicon Carbide Power Chip Product and Services

2.12.4 Toshiba Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.12.5 Toshiba Recent Developments/Updates

2.13 Qorvo (UnitedSiC)

2.13.1 Qorvo (UnitedSiC) Details

2.13.2 Qorvo (UnitedSiC) Major Business

2.13.3 Qorvo (UnitedSiC) Silicon Carbide Power Chip Product and Services

- 2.13.4 Qorvo (UnitedSiC) Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.13.5 Qorvo (UnitedSiC) Recent Developments/Updates
- 2.14 San'an Optoelectronics
 - 2.14.1 San'an Optoelectronics Details
 - 2.14.2 San'an Optoelectronics Major Business
 - 2.14.3 San'an Optoelectronics Silicon Carbide Power Chip Product and Services
 - 2.14.4 San'an Optoelectronics Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.14.5 San'an Optoelectronics Recent Developments/Updates
- 2.15 Littelfuse (IXYS)
 - 2.15.1 Littelfuse (IXYS) Details
 - 2.15.2 Littelfuse (IXYS) Major Business
 - 2.15.3 Littelfuse (IXYS) Silicon Carbide Power Chip Product and Services
 - 2.15.4 Littelfuse (IXYS) Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.15.5 Littelfuse (IXYS) Recent Developments/Updates
- 2.16 CETC 55
 - 2.16.1 CETC 55 Details
 - 2.16.2 CETC 55 Major Business
 - 2.16.3 CETC 55 Silicon Carbide Power Chip Product and Services
 - 2.16.4 CETC 55 Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.16.5 CETC 55 Recent Developments/Updates
- 2.17 WeEn Semiconductors
 - 2.17.1 WeEn Semiconductors Details
 - 2.17.2 WeEn Semiconductors Major Business
 - 2.17.3 WeEn Semiconductors Silicon Carbide Power Chip Product and Services
 - 2.17.4 WeEn Semiconductors Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.17.5 WeEn Semiconductors Recent Developments/Updates
- 2.18 BASiC Semiconductor
 - 2.18.1 BASiC Semiconductor Details
 - 2.18.2 BASiC Semiconductor Major Business
 - 2.18.3 BASiC Semiconductor Silicon Carbide Power Chip Product and Services
 - 2.18.4 BASiC Semiconductor Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.18.5 BASiC Semiconductor Recent Developments/Updates
- 2.19 SemiQ

- 2.19.1 SemiQ Details
- 2.19.2 SemiQ Major Business
- 2.19.3 SemiQ Silicon Carbide Power Chip Product and Services
- 2.19.4 SemiQ Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.19.5 SemiQ Recent Developments/Updates
- 2.20 Diodes Incorporated
 - 2.20.1 Diodes Incorporated Details
 - 2.20.2 Diodes Incorporated Major Business
 - 2.20.3 Diodes Incorporated Silicon Carbide Power Chip Product and Services
 - 2.20.4 Diodes Incorporated Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.20.5 Diodes Incorporated Recent Developments/Updates
- 2.21 SanRex
 - 2.21.1 SanRex Details
 - 2.21.2 SanRex Major Business
 - 2.21.3 SanRex Silicon Carbide Power Chip Product and Services
 - 2.21.4 SanRex Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.21.5 SanRex Recent Developments/Updates
- 2.22 Alpha & Omega Semiconductor
 - 2.22.1 Alpha & Omega Semiconductor Details
 - 2.22.2 Alpha & Omega Semiconductor Major Business
 - 2.22.3 Alpha & Omega Semiconductor Silicon Carbide Power Chip Product and Services
 - 2.22.4 Alpha & Omega Semiconductor Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.22.5 Alpha & Omega Semiconductor Recent Developments/Updates
- 2.23 Bosch
 - 2.23.1 Bosch Details
 - 2.23.2 Bosch Major Business
 - 2.23.3 Bosch Silicon Carbide Power Chip Product and Services
 - 2.23.4 Bosch Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.23.5 Bosch Recent Developments/Updates
- 2.24 KEC Corporation
 - 2.24.1 KEC Corporation Details
 - 2.24.2 KEC Corporation Major Business
 - 2.24.3 KEC Corporation Silicon Carbide Power Chip Product and Services

2.24.4 KEC Corporation Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.24.5 KEC Corporation Recent Developments/Updates

2.25 PANJIT Group

2.25.1 PANJIT Group Details

2.25.2 PANJIT Group Major Business

2.25.3 PANJIT Group Silicon Carbide Power Chip Product and Services

2.25.4 PANJIT Group Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.25.5 PANJIT Group Recent Developments/Updates

2.26 Nexperia

2.26.1 Nexperia Details

2.26.2 Nexperia Major Business

2.26.3 Nexperia Silicon Carbide Power Chip Product and Services

2.26.4 Nexperia Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.26.5 Nexperia Recent Developments/Updates

2.27 Vishay Intertechnology

2.27.1 Vishay Intertechnology Details

2.27.2 Vishay Intertechnology Major Business

2.27.3 Vishay Intertechnology Silicon Carbide Power Chip Product and Services

2.27.4 Vishay Intertechnology Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.27.5 Vishay Intertechnology Recent Developments/Updates

2.28 Zhuzhou CRRC Times Electric

2.28.1 Zhuzhou CRRC Times Electric Details

2.28.2 Zhuzhou CRRC Times Electric Major Business

2.28.3 Zhuzhou CRRC Times Electric Silicon Carbide Power Chip Product and Services

2.28.4 Zhuzhou CRRC Times Electric Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.28.5 Zhuzhou CRRC Times Electric Recent Developments/Updates

2.29 China Resources Microelectronics Limited

2.29.1 China Resources Microelectronics Limited Details

2.29.2 China Resources Microelectronics Limited Major Business

2.29.3 China Resources Microelectronics Limited Silicon Carbide Power Chip Product and Services

2.29.4 China Resources Microelectronics Limited Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

- 2.29.5 China Resources Microelectronics Limited Recent Developments/Updates
- 2.30 StarPower
 - 2.30.1 StarPower Details
 - 2.30.2 StarPower Major Business
 - 2.30.3 StarPower Silicon Carbide Power Chip Product and Services
 - 2.30.4 StarPower Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.30.5 StarPower Recent Developments/Updates
- 2.31 Yangzhou Yangjie Electronic Technology
 - 2.31.1 Yangzhou Yangjie Electronic Technology Details
 - 2.31.2 Yangzhou Yangjie Electronic Technology Major Business
 - 2.31.3 Yangzhou Yangjie Electronic Technology Silicon Carbide Power Chip Product and Services
 - 2.31.4 Yangzhou Yangjie Electronic Technology Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.31.5 Yangzhou Yangjie Electronic Technology Recent Developments/Updates
- 2.32 Guangdong AccoPower Semiconductor
 - 2.32.1 Guangdong AccoPower Semiconductor Details
 - 2.32.2 Guangdong AccoPower Semiconductor Major Business
 - 2.32.3 Guangdong AccoPower Semiconductor Silicon Carbide Power Chip Product and Services
 - 2.32.4 Guangdong AccoPower Semiconductor Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.32.5 Guangdong AccoPower Semiconductor Recent Developments/Updates
- 2.33 Changzhou Galaxy Century Microelectronics
 - 2.33.1 Changzhou Galaxy Century Microelectronics Details
 - 2.33.2 Changzhou Galaxy Century Microelectronics Major Business
 - 2.33.3 Changzhou Galaxy Century Microelectronics Silicon Carbide Power Chip Product and Services
 - 2.33.4 Changzhou Galaxy Century Microelectronics Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.33.5 Changzhou Galaxy Century Microelectronics Recent Developments/Updates
- 2.34 Hangzhou Silan Microelectronics
 - 2.34.1 Hangzhou Silan Microelectronics Details
 - 2.34.2 Hangzhou Silan Microelectronics Major Business
 - 2.34.3 Hangzhou Silan Microelectronics Silicon Carbide Power Chip Product and Services
 - 2.34.4 Hangzhou Silan Microelectronics Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

- 2.34.5 Hangzhou Silan Microelectronics Recent Developments/Updates
- 2.35 Cissoid
 - 2.35.1 Cissoid Details
 - 2.35.2 Cissoid Major Business
 - 2.35.3 Cissoid Silicon Carbide Power Chip Product and Services
 - 2.35.4 Cissoid Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.35.5 Cissoid Recent Developments/Updates
- 2.36 SK powertech
 - 2.36.1 SK powertech Details
 - 2.36.2 SK powertech Major Business
 - 2.36.3 SK powertech Silicon Carbide Power Chip Product and Services
 - 2.36.4 SK powertech Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.36.5 SK powertech Recent Developments/Updates
- 2.37 InventChip Technology
 - 2.37.1 InventChip Technology Details
 - 2.37.2 InventChip Technology Major Business
 - 2.37.3 InventChip Technology Silicon Carbide Power Chip Product and Services
 - 2.37.4 InventChip Technology Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.37.5 InventChip Technology Recent Developments/Updates
- 2.38 Hebei Sinopack Electronic Technology
 - 2.38.1 Hebei Sinopack Electronic Technology Details
 - 2.38.2 Hebei Sinopack Electronic Technology Major Business
 - 2.38.3 Hebei Sinopack Electronic Technology Silicon Carbide Power Chip Product and Services
 - 2.38.4 Hebei Sinopack Electronic Technology Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.38.5 Hebei Sinopack Electronic Technology Recent Developments/Updates
- 2.39 Oriental Semiconductor
 - 2.39.1 Oriental Semiconductor Details
 - 2.39.2 Oriental Semiconductor Major Business
 - 2.39.3 Oriental Semiconductor Silicon Carbide Power Chip Product and Services
 - 2.39.4 Oriental Semiconductor Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.39.5 Oriental Semiconductor Recent Developments/Updates
- 2.40 Jilin Sino-Microelectronics
 - 2.40.1 Jilin Sino-Microelectronics Details

- 2.40.2 Jilin Sino-Microelectronics Major Business
- 2.40.3 Jilin Sino-Microelectronics Silicon Carbide Power Chip Product and Services
- 2.40.4 Jilin Sino-Microelectronics Silicon Carbide Power Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.40.5 Jilin Sino-Microelectronics Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: SILICON CARBIDE POWER CHIP BY MANUFACTURER

- 3.1 Global Silicon Carbide Power Chip Sales Quantity by Manufacturer (2020-2025)
- 3.2 Global Silicon Carbide Power Chip Revenue by Manufacturer (2020-2025)
- 3.3 Global Silicon Carbide Power Chip Average Price by Manufacturer (2020-2025)
- 3.4 Market Share Analysis (2024)
 - 3.4.1 Producer Shipments of Silicon Carbide Power Chip by Manufacturer Revenue (\$MM) and Market Share (%): 2024
 - 3.4.2 Top 3 Silicon Carbide Power Chip Manufacturer Market Share in 2024
 - 3.4.3 Top 6 Silicon Carbide Power Chip Manufacturer Market Share in 2024
- 3.5 Silicon Carbide Power Chip Market: Overall Company Footprint Analysis
 - 3.5.1 Silicon Carbide Power Chip Market: Region Footprint
 - 3.5.2 Silicon Carbide Power Chip Market: Company Product Type Footprint
 - 3.5.3 Silicon Carbide Power Chip Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Silicon Carbide Power Chip Market Size by Region
 - 4.1.1 Global Silicon Carbide Power Chip Sales Quantity by Region (2020-2031)
 - 4.1.2 Global Silicon Carbide Power Chip Consumption Value by Region (2020-2031)
 - 4.1.3 Global Silicon Carbide Power Chip Average Price by Region (2020-2031)
- 4.2 North America Silicon Carbide Power Chip Consumption Value (2020-2031)
- 4.3 Europe Silicon Carbide Power Chip Consumption Value (2020-2031)
- 4.4 Asia-Pacific Silicon Carbide Power Chip Consumption Value (2020-2031)
- 4.5 South America Silicon Carbide Power Chip Consumption Value (2020-2031)
- 4.6 Middle East & Africa Silicon Carbide Power Chip Consumption Value (2020-2031)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Silicon Carbide Power Chip Sales Quantity by Type (2020-2031)

5.2 Global Silicon Carbide Power Chip Consumption Value by Type (2020-2031)

5.3 Global Silicon Carbide Power Chip Average Price by Type (2020-2031)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Silicon Carbide Power Chip Sales Quantity by Application (2020-2031)

6.2 Global Silicon Carbide Power Chip Consumption Value by Application (2020-2031)

6.3 Global Silicon Carbide Power Chip Average Price by Application (2020-2031)

7 NORTH AMERICA

7.1 North America Silicon Carbide Power Chip Sales Quantity by Type (2020-2031)

7.2 North America Silicon Carbide Power Chip Sales Quantity by Application (2020-2031)

7.3 North America Silicon Carbide Power Chip Market Size by Country

7.3.1 North America Silicon Carbide Power Chip Sales Quantity by Country (2020-2031)

7.3.2 North America Silicon Carbide Power Chip Consumption Value by Country (2020-2031)

7.3.3 United States Market Size and Forecast (2020-2031)

7.3.4 Canada Market Size and Forecast (2020-2031)

7.3.5 Mexico Market Size and Forecast (2020-2031)

8 EUROPE

8.1 Europe Silicon Carbide Power Chip Sales Quantity by Type (2020-2031)

8.2 Europe Silicon Carbide Power Chip Sales Quantity by Application (2020-2031)

8.3 Europe Silicon Carbide Power Chip Market Size by Country

8.3.1 Europe Silicon Carbide Power Chip Sales Quantity by Country (2020-2031)

8.3.2 Europe Silicon Carbide Power Chip Consumption Value by Country (2020-2031)

8.3.3 Germany Market Size and Forecast (2020-2031)

8.3.4 France Market Size and Forecast (2020-2031)

8.3.5 United Kingdom Market Size and Forecast (2020-2031)

8.3.6 Russia Market Size and Forecast (2020-2031)

8.3.7 Italy Market Size and Forecast (2020-2031)

9 ASIA-PACIFIC

9.1 Asia-Pacific Silicon Carbide Power Chip Sales Quantity by Type (2020-2031)

9.2 Asia-Pacific Silicon Carbide Power Chip Sales Quantity by Application (2020-2031)

9.3 Asia-Pacific Silicon Carbide Power Chip Market Size by Region

9.3.1 Asia-Pacific Silicon Carbide Power Chip Sales Quantity by Region (2020-2031)

9.3.2 Asia-Pacific Silicon Carbide Power Chip Consumption Value by Region
(2020-2031)

9.3.3 China Market Size and Forecast (2020-2031)

9.3.4 Japan Market Size and Forecast (2020-2031)

9.3.5 South Korea Market Size and Forecast (2020-2031)

9.3.6 India Market Size and Forecast (2020-2031)

9.3.7 Southeast Asia Market Size and Forecast (2020-2031)

9.3.8 Australia Market Size and Forecast (2020-2031)

10 SOUTH AMERICA

10.1 South America Silicon Carbide Power Chip Sales Quantity by Type (2020-2031)

10.2 South America Silicon Carbide Power Chip Sales Quantity by Application
(2020-2031)

10.3 South America Silicon Carbide Power Chip Market Size by Country

10.3.1 South America Silicon Carbide Power Chip Sales Quantity by Country
(2020-2031)

10.3.2 South America Silicon Carbide Power Chip Consumption Value by Country
(2020-2031)

10.3.3 Brazil Market Size and Forecast (2020-2031)

10.3.4 Argentina Market Size and Forecast (2020-2031)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Silicon Carbide Power Chip Sales Quantity by Type
(2020-2031)

11.2 Middle East & Africa Silicon Carbide Power Chip Sales Quantity by Application
(2020-2031)

11.3 Middle East & Africa Silicon Carbide Power Chip Market Size by Country

11.3.1 Middle East & Africa Silicon Carbide Power Chip Sales Quantity by Country
(2020-2031)

11.3.2 Middle East & Africa Silicon Carbide Power Chip Consumption Value by
Country (2020-2031)

11.3.3 Turkey Market Size and Forecast (2020-2031)

11.3.4 Egypt Market Size and Forecast (2020-2031)

11.3.5 Saudi Arabia Market Size and Forecast (2020-2031)

11.3.6 South Africa Market Size and Forecast (2020-2031)

12 MARKET DYNAMICS

- 12.1 Silicon Carbide Power Chip Market Drivers
- 12.2 Silicon Carbide Power Chip Market Restraints
- 12.3 Silicon Carbide Power Chip Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Silicon Carbide Power Chip and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Silicon Carbide Power Chip
- 13.3 Silicon Carbide Power Chip Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Silicon Carbide Power Chip Typical Distributors
- 14.3 Silicon Carbide Power Chip Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Silicon Carbide Power Chip Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global Silicon Carbide Power Chip Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. STMicroelectronics Basic Information, Manufacturing Base and Competitors

Table 4. STMicroelectronics Major Business

Table 5. STMicroelectronics Silicon Carbide Power Chip Product and Services

Table 6. STMicroelectronics Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 7. STMicroelectronics Recent Developments/Updates

Table 8. Infineon Basic Information, Manufacturing Base and Competitors

Table 9. Infineon Major Business

Table 10. Infineon Silicon Carbide Power Chip Product and Services

Table 11. Infineon Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 12. Infineon Recent Developments/Updates

Table 13. Wolfspeed Basic Information, Manufacturing Base and Competitors

Table 14. Wolfspeed Major Business

Table 15. Wolfspeed Silicon Carbide Power Chip Product and Services

Table 16. Wolfspeed Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 17. Wolfspeed Recent Developments/Updates

Table 18. Rohm Basic Information, Manufacturing Base and Competitors

Table 19. Rohm Major Business

Table 20. Rohm Silicon Carbide Power Chip Product and Services

Table 21. Rohm Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 22. Rohm Recent Developments/Updates

Table 23. onsemi Basic Information, Manufacturing Base and Competitors

Table 24. onsemi Major Business

Table 25. onsemi Silicon Carbide Power Chip Product and Services

Table 26. onsemi Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 27. onsemi Recent Developments/Updates

Table 28. BYD Semiconductor Basic Information, Manufacturing Base and Competitors

Table 29. BYD Semiconductor Major Business

Table 30. BYD Semiconductor Silicon Carbide Power Chip Product and Services

Table 31. BYD Semiconductor Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 32. BYD Semiconductor Recent Developments/Updates

Table 33. Microchip (Microsemi) Basic Information, Manufacturing Base and Competitors

Table 34. Microchip (Microsemi) Major Business

Table 35. Microchip (Microsemi) Silicon Carbide Power Chip Product and Services

Table 36. Microchip (Microsemi) Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 37. Microchip (Microsemi) Recent Developments/Updates

Table 38. Mitsubishi Electric (Vincotech) Basic Information, Manufacturing Base and Competitors

Table 39. Mitsubishi Electric (Vincotech) Major Business

Table 40. Mitsubishi Electric (Vincotech) Silicon Carbide Power Chip Product and Services

Table 41. Mitsubishi Electric (Vincotech) Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 42. Mitsubishi Electric (Vincotech) Recent Developments/Updates

Table 43. Semikron Danfoss Basic Information, Manufacturing Base and Competitors

Table 44. Semikron Danfoss Major Business

Table 45. Semikron Danfoss Silicon Carbide Power Chip Product and Services

Table 46. Semikron Danfoss Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 47. Semikron Danfoss Recent Developments/Updates

Table 48. Fuji Electric Basic Information, Manufacturing Base and Competitors

Table 49. Fuji Electric Major Business

Table 50. Fuji Electric Silicon Carbide Power Chip Product and Services

Table 51. Fuji Electric Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 52. Fuji Electric Recent Developments/Updates

Table 53. Navitas (GeneSiC) Basic Information, Manufacturing Base and Competitors

Table 54. Navitas (GeneSiC) Major Business

Table 55. Navitas (GeneSiC) Silicon Carbide Power Chip Product and Services

Table 56. Navitas (GeneSiC) Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 57. Navitas (GeneSiC) Recent Developments/Updates

Table 58. Toshiba Basic Information, Manufacturing Base and Competitors

Table 59. Toshiba Major Business

Table 60. Toshiba Silicon Carbide Power Chip Product and Services

Table 61. Toshiba Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 62. Toshiba Recent Developments/Updates

Table 63. Qorvo (UnitedSiC) Basic Information, Manufacturing Base and Competitors

Table 64. Qorvo (UnitedSiC) Major Business

Table 65. Qorvo (UnitedSiC) Silicon Carbide Power Chip Product and Services

Table 66. Qorvo (UnitedSiC) Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 67. Qorvo (UnitedSiC) Recent Developments/Updates

Table 68. San'an Optoelectronics Basic Information, Manufacturing Base and Competitors

Table 69. San'an Optoelectronics Major Business

Table 70. San'an Optoelectronics Silicon Carbide Power Chip Product and Services

Table 71. San'an Optoelectronics Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 72. San'an Optoelectronics Recent Developments/Updates

Table 73. Littelfuse (IXYS) Basic Information, Manufacturing Base and Competitors

Table 74. Littelfuse (IXYS) Major Business

Table 75. Littelfuse (IXYS) Silicon Carbide Power Chip Product and Services

Table 76. Littelfuse (IXYS) Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 77. Littelfuse (IXYS) Recent Developments/Updates

Table 78. CETC 55 Basic Information, Manufacturing Base and Competitors

Table 79. CETC 55 Major Business

Table 80. CETC 55 Silicon Carbide Power Chip Product and Services

Table 81. CETC 55 Silicon Carbide Power Chip Sales Quantity (Million Units), Average

Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 82. CETC 55 Recent Developments/Updates

Table 83. WeEn Semiconductors Basic Information, Manufacturing Base and Competitors

Table 84. WeEn Semiconductors Major Business

Table 85. WeEn Semiconductors Silicon Carbide Power Chip Product and Services

Table 86. WeEn Semiconductors Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 87. WeEn Semiconductors Recent Developments/Updates

Table 88. BASiC Semiconductor Basic Information, Manufacturing Base and Competitors

Table 89. BASiC Semiconductor Major Business

Table 90. BASiC Semiconductor Silicon Carbide Power Chip Product and Services

Table 91. BASiC Semiconductor Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 92. BASiC Semiconductor Recent Developments/Updates

Table 93. SemiQ Basic Information, Manufacturing Base and Competitors

Table 94. SemiQ Major Business

Table 95. SemiQ Silicon Carbide Power Chip Product and Services

Table 96. SemiQ Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 97. SemiQ Recent Developments/Updates

Table 98. Diodes Incorporated Basic Information, Manufacturing Base and Competitors

Table 99. Diodes Incorporated Major Business

Table 100. Diodes Incorporated Silicon Carbide Power Chip Product and Services

Table 101. Diodes Incorporated Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 102. Diodes Incorporated Recent Developments/Updates

Table 103. SanRex Basic Information, Manufacturing Base and Competitors

Table 104. SanRex Major Business

Table 105. SanRex Silicon Carbide Power Chip Product and Services

Table 106. SanRex Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 107. SanRex Recent Developments/Updates

Table 108. Alpha & Omega Semiconductor Basic Information, Manufacturing Base and Competitors

Table 109. Alpha & Omega Semiconductor Major Business

Table 110. Alpha & Omega Semiconductor Silicon Carbide Power Chip Product and Services

Table 111. Alpha & Omega Semiconductor Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 112. Alpha & Omega Semiconductor Recent Developments/Updates

Table 113. Bosch Basic Information, Manufacturing Base and Competitors

Table 114. Bosch Major Business

Table 115. Bosch Silicon Carbide Power Chip Product and Services

Table 116. Bosch Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 117. Bosch Recent Developments/Updates

Table 118. KEC Corporation Basic Information, Manufacturing Base and Competitors

Table 119. KEC Corporation Major Business

Table 120. KEC Corporation Silicon Carbide Power Chip Product and Services

Table 121. KEC Corporation Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 122. KEC Corporation Recent Developments/Updates

Table 123. PANJIT Group Basic Information, Manufacturing Base and Competitors

Table 124. PANJIT Group Major Business

Table 125. PANJIT Group Silicon Carbide Power Chip Product and Services

Table 126. PANJIT Group Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 127. PANJIT Group Recent Developments/Updates

Table 128. Nexperia Basic Information, Manufacturing Base and Competitors

Table 129. Nexperia Major Business

Table 130. Nexperia Silicon Carbide Power Chip Product and Services

Table 131. Nexperia Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 132. Nexperia Recent Developments/Updates

Table 133. Vishay Intertechnology Basic Information, Manufacturing Base and Competitors

Table 134. Vishay Intertechnology Major Business

Table 135. Vishay Intertechnology Silicon Carbide Power Chip Product and Services

Table 136. Vishay Intertechnology Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market

Share (2020-2025)

Table 137. Vishay Intertechnology Recent Developments/Updates

Table 138. Zhuzhou CRRC Times Electric Basic Information, Manufacturing Base and Competitors

Table 139. Zhuzhou CRRC Times Electric Major Business

Table 140. Zhuzhou CRRC Times Electric Silicon Carbide Power Chip Product and Services

Table 141. Zhuzhou CRRC Times Electric Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 142. Zhuzhou CRRC Times Electric Recent Developments/Updates

Table 143. China Resources Microelectronics Limited Basic Information, Manufacturing Base and Competitors

Table 144. China Resources Microelectronics Limited Major Business

Table 145. China Resources Microelectronics Limited Silicon Carbide Power Chip Product and Services

Table 146. China Resources Microelectronics Limited Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 147. China Resources Microelectronics Limited Recent Developments/Updates

Table 148. StarPower Basic Information, Manufacturing Base and Competitors

Table 149. StarPower Major Business

Table 150. StarPower Silicon Carbide Power Chip Product and Services

Table 151. StarPower Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 152. StarPower Recent Developments/Updates

Table 153. Yangzhou Yangjie Electronic Technology Basic Information, Manufacturing Base and Competitors

Table 154. Yangzhou Yangjie Electronic Technology Major Business

Table 155. Yangzhou Yangjie Electronic Technology Silicon Carbide Power Chip Product and Services

Table 156. Yangzhou Yangjie Electronic Technology Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 157. Yangzhou Yangjie Electronic Technology Recent Developments/Updates

Table 158. Guangdong AccoPower Semiconductor Basic Information, Manufacturing Base and Competitors

Table 159. Guangdong AccoPower Semiconductor Major Business

Table 160. Guangdong AccoPower Semiconductor Silicon Carbide Power Chip Product and Services

Table 161. Guangdong AccoPower Semiconductor Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 162. Guangdong AccoPower Semiconductor Recent Developments/Updates

Table 163. Changzhou Galaxy Century Microelectronics Basic Information, Manufacturing Base and Competitors

Table 164. Changzhou Galaxy Century Microelectronics Major Business

Table 165. Changzhou Galaxy Century Microelectronics Silicon Carbide Power Chip Product and Services

Table 166. Changzhou Galaxy Century Microelectronics Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 167. Changzhou Galaxy Century Microelectronics Recent Developments/Updates

Table 168. Hangzhou Silan Microelectronics Basic Information, Manufacturing Base and Competitors

Table 169. Hangzhou Silan Microelectronics Major Business

Table 170. Hangzhou Silan Microelectronics Silicon Carbide Power Chip Product and Services

Table 171. Hangzhou Silan Microelectronics Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 172. Hangzhou Silan Microelectronics Recent Developments/Updates

Table 173. Cissoid Basic Information, Manufacturing Base and Competitors

Table 174. Cissoid Major Business

Table 175. Cissoid Silicon Carbide Power Chip Product and Services

Table 176. Cissoid Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 177. Cissoid Recent Developments/Updates

Table 178. SK powertech Basic Information, Manufacturing Base and Competitors

Table 179. SK powertech Major Business

Table 180. SK powertech Silicon Carbide Power Chip Product and Services

Table 181. SK powertech Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 182. SK powertech Recent Developments/Updates

Table 183. InventChip Technology Basic Information, Manufacturing Base and Competitors

Table 184. InventChip Technology Major Business

Table 185. InventChip Technology Silicon Carbide Power Chip Product and Services

Table 186. InventChip Technology Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 187. InventChip Technology Recent Developments/Updates

Table 188. Hebei Sinopack Electronic Technology Basic Information, Manufacturing Base and Competitors

Table 189. Hebei Sinopack Electronic Technology Major Business

Table 190. Hebei Sinopack Electronic Technology Silicon Carbide Power Chip Product and Services

Table 191. Hebei Sinopack Electronic Technology Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 192. Hebei Sinopack Electronic Technology Recent Developments/Updates

Table 193. Oriental Semiconductor Basic Information, Manufacturing Base and Competitors

Table 194. Oriental Semiconductor Major Business

Table 195. Oriental Semiconductor Silicon Carbide Power Chip Product and Services

Table 196. Oriental Semiconductor Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 197. Oriental Semiconductor Recent Developments/Updates

Table 198. Jilin Sino-Microelectronics Basic Information, Manufacturing Base and Competitors

Table 199. Jilin Sino-Microelectronics Major Business

Table 200. Jilin Sino-Microelectronics Silicon Carbide Power Chip Product and Services

Table 201. Jilin Sino-Microelectronics Silicon Carbide Power Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 202. Jilin Sino-Microelectronics Recent Developments/Updates

Table 203. Global Silicon Carbide Power Chip Sales Quantity by Manufacturer (2020-2025) & (Million Units)

Table 204. Global Silicon Carbide Power Chip Revenue by Manufacturer (2020-2025) & (USD Million)

Table 205. Global Silicon Carbide Power Chip Average Price by Manufacturer (2020-2025) & (US\$/Unit)

Table 206. Market Position of Manufacturers in Silicon Carbide Power Chip, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024

Table 207. Head Office and Silicon Carbide Power Chip Production Site of Key Manufacturer

Table 208. Silicon Carbide Power Chip Market: Company Product Type Footprint

Table 209. Silicon Carbide Power Chip Market: Company Product Application Footprint

Table 210. Silicon Carbide Power Chip New Market Entrants and Barriers to Market Entry

Table 211. Silicon Carbide Power Chip Mergers, Acquisition, Agreements, and Collaborations

Table 212. Global Silicon Carbide Power Chip Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR

Table 213. Global Silicon Carbide Power Chip Sales Quantity by Region (2020-2025) & (Million Units)

Table 214. Global Silicon Carbide Power Chip Sales Quantity by Region (2026-2031) & (Million Units)

Table 215. Global Silicon Carbide Power Chip Consumption Value by Region (2020-2025) & (USD Million)

Table 216. Global Silicon Carbide Power Chip Consumption Value by Region (2026-2031) & (USD Million)

Table 217. Global Silicon Carbide Power Chip Average Price by Region (2020-2025) & (US\$/Unit)

Table 218. Global Silicon Carbide Power Chip Average Price by Region (2026-2031) & (US\$/Unit)

Table 219. Global Silicon Carbide Power Chip Sales Quantity by Type (2020-2025) & (Million Units)

Table 220. Global Silicon Carbide Power Chip Sales Quantity by Type (2026-2031) & (Million Units)

Table 221. Global Silicon Carbide Power Chip Consumption Value by Type (2020-2025) & (USD Million)

Table 222. Global Silicon Carbide Power Chip Consumption Value by Type (2026-2031) & (USD Million)

Table 223. Global Silicon Carbide Power Chip Average Price by Type (2020-2025) & (US\$/Unit)

Table 224. Global Silicon Carbide Power Chip Average Price by Type (2026-2031) & (US\$/Unit)

Table 225. Global Silicon Carbide Power Chip Sales Quantity by Application (2020-2025) & (Million Units)

Table 226. Global Silicon Carbide Power Chip Sales Quantity by Application (2026-2031) & (Million Units)

Table 227. Global Silicon Carbide Power Chip Consumption Value by Application

(2020-2025) & (USD Million)

Table 228. Global Silicon Carbide Power Chip Consumption Value by Application

(2026-2031) & (USD Million)

Table 229. Global Silicon Carbide Power Chip Average Price by Application

(2020-2025) & (US\$/Unit)

Table 230. Global Silicon Carbide Power Chip Average Price by Application

(2026-2031) & (US\$/Unit)

Table 231. North America Silicon Carbide Power Chip Sales Quantity by Type

(2020-2025) & (Million Units)

Table 232. North America Silicon Carbide Power Chip Sales Quantity by Type

(2026-2031) & (Million Units)

Table 233. North America Silicon Carbide Power Chip Sales Quantity by Application

(2020-2025) & (Million Units)

Table 234. North America Silicon Carbide Power Chip Sales Quantity by Application

(2026-2031) & (Million Units)

Table 235. North America Silicon Carbide Power Chip Sales Quantity by Country

(2020-2025) & (Million Units)

Table 236. North America Silicon Carbide Power Chip Sales Quantity by Country

(2026-2031) & (Million Units)

Table 237. North America Silicon Carbide Power Chip Consumption Value by Country

(2020-2025) & (USD Million)

Table 238. North America Silicon Carbide Power Chip Consumption Value by Country

(2026-2031) & (USD Million)

Table 239. Europe Silicon Carbide Power Chip Sales Quantity by Type (2020-2025) & (Million Units)

Table 240. Europe Silicon Carbide Power Chip Sales Quantity by Type (2026-2031) & (Million Units)

Table 241. Europe Silicon Carbide Power Chip Sales Quantity by Application (2020-2025) & (Million Units)

Table 242. Europe Silicon Carbide Power Chip Sales Quantity by Application (2026-2031) & (Million Units)

Table 243. Europe Silicon Carbide Power Chip Sales Quantity by Country (2020-2025) & (Million Units)

Table 244. Europe Silicon Carbide Power Chip Sales Quantity by Country (2026-2031) & (Million Units)

Table 245. Europe Silicon Carbide Power Chip Consumption Value by Country (2020-2025) & (USD Million)

Table 246. Europe Silicon Carbide Power Chip Consumption Value by Country (2026-2031) & (USD Million)

Table 247. Asia-Pacific Silicon Carbide Power Chip Sales Quantity by Type
(2020-2025) & (Million Units)

Table 248. Asia-Pacific Silicon Carbide Power Chip Sales Quantity by Type
(2026-2031) & (Million Units)

Table 249. Asia-Pacific Silicon Carbide Power Chip Sales Quantity by Application
(2020-2025) & (Million Units)

Table 250. Asia-Pacific Silicon Carbide Power Chip Sales Quantity by Application
(2026-2031) & (Million Units)

Table 251. Asia-Pacific Silicon Carbide Power Chip Sales Quantity by Region
(2020-2025) & (Million Units)

Table 252. Asia-Pacific Silicon Carbide Power Chip Sales Quantity by Region
(2026-2031) & (Million Units)

Table 253. Asia-Pacific Silicon Carbide Power Chip Consumption Value by Region
(2020-2025) & (USD Million)

Table 254. Asia-Pacific Silicon Carbide Power Chip Consumption Value by Region
(2026-2031) & (USD Million)

Table 255. South America Silicon Carbide Power Chip Sales Quantity by Type
(2020-2025) & (Million Units)

Table 256. South America Silicon Carbide Power Chip Sales Quantity by Type
(2026-2031) & (Million Units)

Table 257. South America Silicon Carbide Power Chip Sales Quantity by Application
(2020-2025) & (Million Units)

Table 258. South America Silicon Carbide Power Chip Sales Quantity by Application
(2026-2031) & (Million Units)

Table 259. South America Silicon Carbide Power Chip Sales Quantity by Country
(2020-2025) & (Million Units)

Table 260. South America Silicon Carbide Power Chip Sales Quantity by Country
(2026-2031) & (Million Units)

Table 261. South America Silicon Carbide Power Chip Consumption Value by Country
(2020-2025) & (USD Million)

Table 262. South America Silicon Carbide Power Chip Consumption Value by Country
(2026-2031) & (USD Million)

Table 263. Middle East & Africa Silicon Carbide Power Chip Sales Quantity by Type
(2020-2025) & (Million Units)

Table 264. Middle East & Africa Silicon Carbide Power Chip Sales Quantity by Type
(2026-2031) & (Million Units)

Table 265. Middle East & Africa Silicon Carbide Power Chip Sales Quantity by
Application (2020-2025) & (Million Units)

Table 266. Middle East & Africa Silicon Carbide Power Chip Sales Quantity by

Application (2026-2031) & (Million Units)

Table 267. Middle East & Africa Silicon Carbide Power Chip Sales Quantity by Country (2020-2025) & (Million Units)

Table 268. Middle East & Africa Silicon Carbide Power Chip Sales Quantity by Country (2026-2031) & (Million Units)

Table 269. Middle East & Africa Silicon Carbide Power Chip Consumption Value by Country (2020-2025) & (USD Million)

Table 270. Middle East & Africa Silicon Carbide Power Chip Consumption Value by Country (2026-2031) & (USD Million)

Table 271. Silicon Carbide Power Chip Raw Material

Table 272. Key Manufacturers of Silicon Carbide Power Chip Raw Materials

Table 273. Silicon Carbide Power Chip Typical Distributors

Table 274. Silicon Carbide Power Chip Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Silicon Carbide Power Chip Picture

Figure 2. Global Silicon Carbide Power Chip Revenue by Type, (USD Million), 2020 & 2024 & 2031

Figure 3. Global Silicon Carbide Power Chip Revenue Market Share by Type in 2024

Figure 4. SiC MOSFET Modules Examples

Figure 5. SiC MOSFET Discretes Examples

Figure 6. SiC Diode/SBD Examples

Figure 7. Global Silicon Carbide Power Chip Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Figure 8. Global Silicon Carbide Power Chip Revenue Market Share by Application in 2024

Figure 9. Automotive & EV/HEV Examples

Figure 10. EV Charging Examples

Figure 11. Industrial Motor/Drive Examples

Figure 12. PV, Energy Storage, Wind Power Examples

Figure 13. UPS, Data Center & Server Examples

Figure 14. Rail Transport Examples

Figure 15. Others Examples

Figure 16. Global Silicon Carbide Power Chip Consumption Value, (USD Million): 2020 & 2024 & 2031

Figure 17. Global Silicon Carbide Power Chip Consumption Value and Forecast (2020-2031) & (USD Million)

Figure 18. Global Silicon Carbide Power Chip Sales Quantity (2020-2031) & (Million Units)

Figure 19. Global Silicon Carbide Power Chip Price (2020-2031) & (US\$/Unit)

Figure 20. Global Silicon Carbide Power Chip Sales Quantity Market Share by Manufacturer in 2024

Figure 21. Global Silicon Carbide Power Chip Revenue Market Share by Manufacturer in 2024

Figure 22. Producer Shipments of Silicon Carbide Power Chip by Manufacturer Sales (\$MM) and Market Share (%): 2024

Figure 23. Top 3 Silicon Carbide Power Chip Manufacturer (Revenue) Market Share in 2024

Figure 24. Top 6 Silicon Carbide Power Chip Manufacturer (Revenue) Market Share in 2024

Figure 25. Global Silicon Carbide Power Chip Sales Quantity Market Share by Region (2020-2031)

Figure 26. Global Silicon Carbide Power Chip Consumption Value Market Share by Region (2020-2031)

Figure 27. North America Silicon Carbide Power Chip Consumption Value (2020-2031) & (USD Million)

Figure 28. Europe Silicon Carbide Power Chip Consumption Value (2020-2031) & (USD Million)

Figure 29. Asia-Pacific Silicon Carbide Power Chip Consumption Value (2020-2031) & (USD Million)

Figure 30. South America Silicon Carbide Power Chip Consumption Value (2020-2031) & (USD Million)

Figure 31. Middle East & Africa Silicon Carbide Power Chip Consumption Value (2020-2031) & (USD Million)

Figure 32. Global Silicon Carbide Power Chip Sales Quantity Market Share by Type (2020-2031)

Figure 33. Global Silicon Carbide Power Chip Consumption Value Market Share by Type (2020-2031)

Figure 34. Global Silicon Carbide Power Chip Average Price by Type (2020-2031) & (US\$/Unit)

Figure 35. Global Silicon Carbide Power Chip Sales Quantity Market Share by Application (2020-2031)

Figure 36. Global Silicon Carbide Power Chip Revenue Market Share by Application (2020-2031)

Figure 37. Global Silicon Carbide Power Chip Average Price by Application (2020-2031) & (US\$/Unit)

Figure 38. North America Silicon Carbide Power Chip Sales Quantity Market Share by Type (2020-2031)

Figure 39. North America Silicon Carbide Power Chip Sales Quantity Market Share by Application (2020-2031)

Figure 40. North America Silicon Carbide Power Chip Sales Quantity Market Share by Country (2020-2031)

Figure 41. North America Silicon Carbide Power Chip Consumption Value Market Share by Country (2020-2031)

Figure 42. United States Silicon Carbide Power Chip Consumption Value (2020-2031) & (USD Million)

Figure 43. Canada Silicon Carbide Power Chip Consumption Value (2020-2031) & (USD Million)

Figure 44. Mexico Silicon Carbide Power Chip Consumption Value (2020-2031) & (USD

Million)

Figure 45. Europe Silicon Carbide Power Chip Sales Quantity Market Share by Type (2020-2031)

Figure 46. Europe Silicon Carbide Power Chip Sales Quantity Market Share by Application (2020-2031)

Figure 47. Europe Silicon Carbide Power Chip Sales Quantity Market Share by Country (2020-2031)

Figure 48. Europe Silicon Carbide Power Chip Consumption Value Market Share by Country (2020-2031)

Figure 49. Germany Silicon Carbide Power Chip Consumption Value (2020-2031) & (USD Million)

Figure 50. France Silicon Carbide Power Chip Consumption Value (2020-2031) & (USD Million)

Figure 51. United Kingdom Silicon Carbide Power Chip Consumption Value (2020-2031) & (USD Million)

Figure 52. Russia Silicon Carbide Power Chip Consumption Value (2020-2031) & (USD Million)

Figure 53. Italy Silicon Carbide Power Chip Consumption Value (2020-2031) & (USD Million)

Figure 54. Asia-Pacific Silicon Carbide Power Chip Sales Quantity Market Share by Type (2020-2031)

Figure 55. Asia-Pacific Silicon Carbide Power Chip Sales Quantity Market Share by Application (2020-2031)

Figure 56. Asia-Pacific Silicon Carbide Power Chip Sales Quantity Market Share by Region (2020-2031)

Figure 57. Asia-Pacific Silicon Carbide Power Chip Consumption Value Market Share by Region (2020-2031)

Figure 58. China Silicon Carbide Power Chip Consumption Value (2020-2031) & (USD Million)

Figure 59. Japan Silicon Carbide Power Chip Consumption Value (2020-2031) & (USD Million)

Figure 60. South Korea Silicon Carbide Power Chip Consumption Value (2020-2031) & (USD Million)

Figure 61. India Silicon Carbide Power Chip Consumption Value (2020-2031) & (USD Million)

Figure 62. Southeast Asia Silicon Carbide Power Chip Consumption Value (2020-2031) & (USD Million)

Figure 63. Australia Silicon Carbide Power Chip Consumption Value (2020-2031) & (USD Million)

Figure 64. South America Silicon Carbide Power Chip Sales Quantity Market Share by Type (2020-2031)

Figure 65. South America Silicon Carbide Power Chip Sales Quantity Market Share by Application (2020-2031)

Figure 66. South America Silicon Carbide Power Chip Sales Quantity Market Share by Country (2020-2031)

Figure 67. South America Silicon Carbide Power Chip Consumption Value Market Share by Country (2020-2031)

Figure 68. Brazil Silicon Carbide Power Chip Consumption Value (2020-2031) & (USD Million)

Figure 69. Argentina Silicon Carbide Power Chip Consumption Value (2020-2031) & (USD Million)

Figure 70. Middle East & Africa Silicon Carbide Power Chip Sales Quantity Market Share by Type (2020-2031)

Figure 71. Middle East & Africa Silicon Carbide Power Chip Sales Quantity Market Share by Application (2020-2031)

Figure 72. Middle East & Africa Silicon Carbide Power Chip Sales Quantity Market Share by Country (2020-2031)

Figure 73. Middle East & Africa Silicon Carbide Power Chip Consumption Value Market Share by Country (2020-2031)

Figure 74. Turkey Silicon Carbide Power Chip Consumption Value (2020-2031) & (USD Million)

Figure 75. Egypt Silicon Carbide Power Chip Consumption Value (2020-2031) & (USD Million)

Figure 76. Saudi Arabia Silicon Carbide Power Chip Consumption Value (2020-2031) & (USD Million)

Figure 77. South Africa Silicon Carbide Power Chip Consumption Value (2020-2031) & (USD Million)

Figure 78. Silicon Carbide Power Chip Market Drivers

Figure 79. Silicon Carbide Power Chip Market Restraints

Figure 80. Silicon Carbide Power Chip Market Trends

Figure 81. Porters Fiv

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