

Global SiC MOSFETs Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global SiC MOSFETs market size will reach 1,044.31 Million USD in 2025 and is projected to reach 6,698.93 Million USD by 2032, with a CAGR of 30.41% (2025-2032). Notably, the China SiC MOSFETs market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

SiC MOSFETs, or Silicon Carbide Metal-Oxide-Semiconductor Field-Effect Transistors, represent a cutting-edge class of power semiconductor devices utilized in a diverse array of high-performance electronic systems. These transistors leverage silicon carbide as their semiconductor material, offering superior electrical and thermal properties compared to traditional silicon-based MOSFETs. SiC MOSFETs exhibit characteristics such as lower on-resistance, higher breakdown voltage, faster switching speeds, and improved thermal conductivity, enabling them to operate efficiently at higher temperatures and handle higher voltage and current levels. Due to these advantages, SiC MOSFETs find application in various industries including automotive, renewable energy, industrial power supplies, and aerospace, where they contribute to enhanced energy efficiency, power density, and system reliability.

The major global manufacturers of SiC MOSFETs include Wolfspeed, Infineon Technologies, STMicroelectronics, ROHM, Microchip, ON Semiconductor, Littelfuse, GeneSiC Semiconductor, Mitsubishi Electric, BASiC Semiconductor, etc. The global

players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of SiC MOSFETs. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global SiC MOSFETs market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the SiC MOSFETs market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of SiC MOSFETs industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of SiC MOSFETs Include:

Wolfspeed

Infineon Technologies

STMicroelectronics

ROHM

Microchip

ON Semiconductor

Littelfuse

GeneSiC Semiconductor

Mitsubishi Electric

BASiC Semiconductor

SiC MOSFETs Product Segment Include:

1200V

1700V

650V

Others

SiC MOSFETs Product Application Include:

Automotive

Industrial

PV

Others

Chapter Scope

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

Chapter 2: Global SiC MOSFETs Industry PESTEL Analysis

Chapter 3: Global SiC MOSFETs Industry Porter's Five Forces Analysis

Chapter 4: Global SiC MOSFETs Major Regional Market Size (Revenue, Sales, Price) and Forecast Analysis

Chapter 5: Global SiC MOSFETs Market Size and Forecast by Type and Application Analysis

Chapter 6: North America SiC MOSFETs Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 7: Europe SiC MOSFETs Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 8: China SiC MOSFETs Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 9: APAC (Excl. China) SiC MOSFETs Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 10: Latin America SiC MOSFETs Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 11: Middle East and Africa SiC MOSFETs Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 12: Global SiC MOSFETs Competitive Analysis of Key Manufacturers (Sales, Revenue, Market Share, Price, Regional Distribution and Industry Concentration)

Chapter 13: Key Company Profiles (Product Portfolio, Sales, Revenue, Price and Gross Margin)

Chapter 14: Industrial Chain Analysis, Include Raw Material Suppliers, Distributors and Customers

Chapter 15: Research Findings and Conclusion

Chapter 16: Methodology and Data Sources

Contents

1 SiC MOSFETS MARKET OVERVIEW

- 1.1 Product Definition and Statistical Scope
- 1.2 SiC MOSFETs Product by Type
 - 1.2.1 1200V
 - 1.2.2 1700V
 - 1.2.3 650V
 - 1.2.4 Others
- 1.3 SiC MOSFETs Product by Application
 - 1.3.1 Automotive
 - 1.3.2 Industrial
 - 1.3.3 PV
 - 1.3.4 Others
- 1.4 Global SiC MOSFETs Market Revenue and Sales Analysis
 - 1.4.1 Global SiC MOSFETs Revenue Market Size Analysis (2020-2032)
 - 1.4.2 Global SiC MOSFETs Sales Market Size Analysis (2020-2032)
 - 1.4.3 Global SiC MOSFETs Market Sales Price Trend Analysis (2020-2032)
- 1.5 SiC MOSFETs Industry Trends and Innovation
 - 1.5.1 SiC MOSFETs Industry Trends and Innovation
 - 1.5.2 SiC MOSFETs Market Drivers and Challenges

2 SiC MOSFETS MARKET PESTEL ANALYSIS

- 2.1 Political Factors Analysis
- 2.2 Economic Factors Analysis
- 2.3 Social Factors Analysis
- 2.4 Technological Factors Analysis
- 2.5 Environmental Factors Analysis
- 2.6 Legal Factors Analysis

3 SiC MOSFETS MARKET PORTER'S FIVE FORCES ANALYSIS

- 3.1 Competitive Rivalry
- 3.2 Threat of New Entrants
- 3.3 Bargaining Power of Suppliers
- 3.4 Bargaining Power of Buyers
- 3.5 Threat of Substitutes

4 GLOBAL SiC MOSFETS MARKET ANALYSIS BY REGIONS

- 4.1 Global SiC MOSFETs Overall Market: 2024 VS 2025 VS 2032
- 4.2 Global SiC MOSFETs Revenue and Forecast Analysis (2020-2032)
 - 4.2.1 Global SiC MOSFETs Revenue and Market Share by Region (2020-2025)
 - 4.2.2 Global SiC MOSFETs Revenue and Market Share Forecast by Region (2026-2032)
- 4.3 Global SiC MOSFETs Sales and Forecast Analysis (2020-2032)
 - 4.3.1 Global SiC MOSFETs Sales and Market Share by Region (2020-2025)
 - 4.3.2 Global SiC MOSFETs Sales and Market Share Forecast by Region (2026-2032)
- 4.4 Global SiC MOSFETs Sales Price Trend Analysis (2020-2032)

5 GLOBAL SiC MOSFETS MARKET SIZE BY TYPE AND APPLICATION

- 5.1 Global SiC MOSFETs Market Size by Type
 - 5.1.1 Global SiC MOSFETs Revenue and Forecast Analysis by Type (2020-2032)
 - 5.1.2 Global SiC MOSFETs Sales and Forecast Analysis by Type (2020-2032)
- 5.2 Global SiC MOSFETs Market Size by Application
 - 5.2.1 Global SiC MOSFETs Revenue and Forecast Analysis by Application (2020-2032)
 - 5.2.2 Global SiC MOSFETs Sales and Forecast Analysis by Application (2020-2032)

6 NORTH AMERICA

- 6.1 North America SiC MOSFETs Market Size and Growth Rate Analysis (2020-2032)
- 6.2 North America Key Manufacturers Analysis
- 6.3 North America SiC MOSFETs Market Size by Type
 - 6.3.1 North America SiC MOSFETs Sales by Type (2020-2032)
 - 6.3.2 North America SiC MOSFETs Revenue by Type (2020-2032)
- 6.4 North America SiC MOSFETs Market Size by Application
 - 6.4.1 North America SiC MOSFETs Sales by Application (2020-2032)
 - 6.4.2 North America SiC MOSFETs Revenue by Application (2020-2032)
- 6.5 North America SiC MOSFETs Market Size by Country
 - 6.5.1 US
 - 6.5.2 Canada

7 EUROPE

- 7.1 Europe SiC MOSFETs Market Size and Growth Rate Analysis (2020-2032)
- 7.2 Europe Key Manufacturers Analysis
- 7.3 Europe SiC MOSFETs Market Size by Type
 - 7.3.1 Europe SiC MOSFETs Sales by Type (2020-2032)
 - 7.3.2 Europe SiC MOSFETs Revenue by Type (2020-2032)
- 7.4 Europe SiC MOSFETs Market Size by Application
 - 7.4.1 Europe SiC MOSFETs Sales by Application (2020-2032)
 - 7.4.2 Europe SiC MOSFETs Revenue by Application (2020-2032)
- 7.5 Europe SiC MOSFETs Market Size by Country
 - 7.5.1 Germany
 - 7.5.2 France
 - 7.5.3 United Kingdom
 - 7.5.4 Italy
 - 7.5.5 Spain
 - 7.5.6 Benelux

8 CHINA

- 8.1 China SiC MOSFETs Market Size and Growth Rate Analysis (2020-2032)
- 8.2 China Key Manufacturers Analysis
- 8.3 China SiC MOSFETs Market Size by Type
 - 8.3.1 China SiC MOSFETs Sales by Type (2020-2032)
 - 8.3.2 China SiC MOSFETs Revenue by Type (2020-2032)
- 8.4 China SiC MOSFETs Market Size by Application
 - 8.4.1 China SiC MOSFETs Sales by Application (2020-2032)
 - 8.4.2 China SiC MOSFETs Revenue by Application (2020-2032)

9 APAC (EXCL. CHINA)

- 9.1 APAC (excl. China) SiC MOSFETs Market Size and Growth Rate Analysis (2020-2032)
- 9.2 APAC (excl. China) Key Manufacturers Analysis
- 9.3 APAC (excl. China) SiC MOSFETs Market Size by Type
 - 9.3.1 APAC (excl. China) SiC MOSFETs Sales by Type (2020-2032)
 - 9.3.2 APAC (excl. China) SiC MOSFETs Revenue by Type (2020-2032)
- 9.4 APAC (excl. China) SiC MOSFETs Market Size by Application
 - 9.4.1 APAC (excl. China) SiC MOSFETs Sales by Application (2020-2032)
 - 9.4.2 APAC (excl. China) SiC MOSFETs Revenue by Application (2020-2032)
- 9.5 APAC (excl. China) SiC MOSFETs Market Size by Country

- 9.5.1 Japan
- 9.5.2 South Korea
- 9.5.3 India
- 9.5.4 Australia
- 9.5.5 Southeast Asia

10 LATIN AMERICA

- 10.1 Latin America SiC MOSFETs Market Size and Growth Rate Analysis (2020-2032)
- 10.2 Latin America Key Manufacturers Analysis
- 10.3 Latin America SiC MOSFETs Market Size by Type
 - 10.3.1 Latin America SiC MOSFETs Sales by Type (2020-2032)
 - 10.3.2 Latin America SiC MOSFETs Revenue by Type (2020-2032)
- 10.4 Latin America SiC MOSFETs Market Size by Application
 - 10.4.1 Latin America SiC MOSFETs Sales by Application (2020-2032)
 - 10.4.2 Latin America SiC MOSFETs Revenue by Application (2020-2032)
- 10.5 Latin America SiC MOSFETs Market Size by Country
- 10.6 Latin America SiC MOSFETs Market Size by Country
 - 10.6.1 Mexico
 - 10.6.2 Brazil

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa SiC MOSFETs Market Size and Growth Rate Analysis (2020-2032)
- 11.2 Middle East & Africa Key Manufacturers Analysis
- 11.3 Middle East & Africa SiC MOSFETs Market Size by Type
 - 11.3.1 Middle East & Africa SiC MOSFETs Sales by Type (2020-2032)
 - 11.3.2 Middle East & Africa SiC MOSFETs Revenue by Type (2020-2032)
- 11.4 Middle East & Africa SiC MOSFETs Market Size by Application
 - 11.4.1 Middle East & Africa SiC MOSFETs Sales by Application (2020-2032)
 - 11.4.2 Middle East & Africa SiC MOSFETs Revenue by Application (2020-2032)
- 11.5 Middle East SiC MOSFETs Market Size by Country
 - 11.5.1 Saudi Arabia
 - 11.5.2 South Africa

12 COMPETITION BY MANUFACTURERS

- 12.1 Global SiC MOSFETs Market Sales, Revenue and Price by Key Manufacturers

(2021-2025)

12.1.1 Global SiC MOSFETs Market Sales by Key Manufacturers (2021-2025)

12.1.2 Global SiC MOSFETs Market Revenue by Key Manufacturers (2021-2025)

12.1.3 Global SiC MOSFETs Average Sales Price by Manufacturers (2021-2025)

12.2 SiC MOSFETs Competitive Landscape Analysis and Market Dynamic

12.2.1 SiC MOSFETs Competitive Landscape Analysis

12.2.2 Global Key Manufacturers Headquarter Location and Key Area Sales

12.2.3 Market Dynamic

13 KEY COMPANIES ANALYSIS

13.1 Wolfspeed

13.1.1 Wolfspeed Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.1.2 Wolfspeed SiC MOSFETs Product Portfolio

13.1.3 Wolfspeed SiC MOSFETs Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.2 Infineon Technologies

13.2.1 Infineon Technologies Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.2.2 Infineon Technologies SiC MOSFETs Product Portfolio

13.2.3 Infineon Technologies SiC MOSFETs Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.3 STMicroelectronics

13.3.1 STMicroelectronics Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.3.2 STMicroelectronics SiC MOSFETs Product Portfolio

13.3.3 STMicroelectronics SiC MOSFETs Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.4 ROHM

13.4.1 ROHM Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.4.2 ROHM SiC MOSFETs Product Portfolio

13.4.3 ROHM SiC MOSFETs Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.5 Microchip

13.5.1 Microchip Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.5.2 Microchip SiC MOSFETs Product Portfolio

13.5.3 Microchip SiC MOSFETs Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.6 ON Semiconductor

13.6.1 ON Semiconductor Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.6.2 ON Semiconductor SiC MOSFETs Product Portfolio

13.6.3 ON Semiconductor SiC MOSFETs Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.7 Littelfuse

13.7.1 Littelfuse Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.7.2 Littelfuse SiC MOSFETs Product Portfolio

13.7.3 Littelfuse SiC MOSFETs Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.8 GeneSiC Semiconductor

13.8.1 GeneSiC Semiconductor Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.8.2 GeneSiC Semiconductor SiC MOSFETs Product Portfolio

13.8.3 GeneSiC Semiconductor SiC MOSFETs Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.9 Mitsubishi Electric

13.9.1 Mitsubishi Electric Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.9.2 Mitsubishi Electric SiC MOSFETs Product Portfolio

13.9.3 Mitsubishi Electric SiC MOSFETs Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.10 BASiC Semiconductor

13.10.1 BASiC Semiconductor Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.10.2 BASiC Semiconductor SiC MOSFETs Product Portfolio

13.10.3 BASiC Semiconductor SiC MOSFETs Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

14 INDUSTRY CHAIN ANALYSIS

14.1 SiC MOSFETs Industry Chain Analysis

14.2 SiC MOSFETs Industry Raw Material and Suppliers Analysis

14.2.1 SiC MOSFETs Key Raw Material Supply Analysis

14.2.2 Raw Material Suppliers and Contact Information

14.3 SiC MOSFETs Typical Downstream Customers

14.4 SiC MOSFETs Sales Channel Analysis

15 RESEARCH FINDINGS AND CONCLUSION

16 METHODOLOGY AND DATA SOURCE

16.1 Methodology/Research Approach

16.2 Research Scope

16.3 Benchmarks and Assumptions

16.4 Data Source

16.4.1 Primary Sources

16.4.2 Secondary Sources

16.5 Data Cross Validation

16.6 Disclaimer

List Of Tables

LIST OF TABLES

Table 1: Global SiC MOSFETs Market Size Growth Rate by Type, 2024 VS 2025 VS 2032 (US\$ Million)

Table 2: Global SiC MOSFETs Market Size Growth Rate by Application, 2024 VS 2025 VS 2032 (US\$ Million)

Table 3: SiC MOSFETs Industry Development Status

Table 4: SiC MOSFETs Industry Development Trends

Table 5: Global SiC MOSFETs Market Size by Region in US\$ Million: 2024 VS 2025 VS 2032

Table 6: Global SiC MOSFETs Revenue by Region (2020-2025) & (US\$ Million)

Table 7: Global SiC MOSFETs Revenue Market Share by Region (2020-2025)

Table 8: Global SiC MOSFETs Revenue Forecast by Region (2026-2032) & (US\$ Million)

Table 9: Global SiC MOSFETs Revenue Market Share Forecast by Region (2026-2032)

Table 10: Global SiC MOSFETs Sales by Region (2020-2025) & (K Unit)

Table 11: Global SiC MOSFETs Sales Market Share by Region (2020-2025)

Table 12: Global SiC MOSFETs Sales Forecast by Region (2026-2032) & (K Unit)

Table 13: Global SiC MOSFETs Sales Market Share Forecast by Region (2026-2032)

Table 14: Global SiC MOSFETs Revenue Analysis by Type (2020-2025) & (US\$ Million)

Table 15: Global SiC MOSFETs Revenue Analysis Forecast by Type (2026-2032) & (US\$ Million)

Table 16: Global SiC MOSFETs Sales Analysis by Type (2020-2025) & (K Unit)

Table 17: Global SiC MOSFETs Sales Analysis Forecast by Type (2026-2032) & (K Unit)

Table 18: Global SiC MOSFETs Revenue Analysis by Application (2020-2025) & (US\$ Million)

Table 19: Global SiC MOSFETs Revenue Analysis Forecast by Application (2026-2032) & (US\$ Million)

Table 20: Global SiC MOSFETs Sales Analysis by Application (2020-2025) & (K Unit)

Table 21: Global SiC MOSFETs Sales Analysis Forecast by Application (2026-2032) & (K Unit)

Table 22: Key SiC MOSFETs Players in North America

Table 23: North America SiC MOSFETs Sales by Type (2020-2025) & (K Unit)

Table 24: North America SiC MOSFETs Sales by Type (2026-2032) & (K Unit)

Table 25: North America SiC MOSFETs Revenue by Type (2020-2025) & (US\$ Million)

Table 26: North America SiC MOSFETs Revenue by Type (2026-2032) & (US\$ Million)

Table 27: North America SiC MOSFETs Sales by Application (2020-2025) & (K Unit)

Table 28: North America SiC MOSFETs Sales by Application (2026-2032) & (K Unit)

Table 29: North America SiC MOSFETs Revenue by Application (2020-2025) & (US\$ Million)

Table 30: North America SiC MOSFETs Revenue by Application (2026-2032) & (US\$ Million)

Table 31: North America SiC MOSFETs Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 32: North America SiC MOSFETs Revenue Market Size by Country (2026-2032) & (US\$ Million)

Table 33: North America SiC MOSFETs Sales Market Size by Country (2020-2025) & (K Unit)

Table 34: North America SiC MOSFETs Sales Market Size by Country (2026-2032) & (K Unit)

Table 35: Key SiC MOSFETs Players in Europe

Table 36: Europe SiC MOSFETs Sales by Type (2020-2025) & (K Unit)

Table 37: Europe SiC MOSFETs Sales by Type (2026-2032) & (K Unit)

Table 38: Europe SiC MOSFETs Revenue by Type (2020-2025) & (US\$ Million)

Table 39: Europe SiC MOSFETs Revenue by Type (2026-2032) & (US\$ Million)

Table 40: Europe SiC MOSFETs Sales by Application (2020-2025) & (K Unit)

Table 41: Europe SiC MOSFETs Sales by Application (2026-2032) & (K Unit)

Table 42: Europe SiC MOSFETs Revenue by Application (2020-2025) & (US\$ Million)

Table 43: Europe SiC MOSFETs Revenue by Application (2026-2032) & (US\$ Million)

Table 44: Europe SiC MOSFETs Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 45: Europe SiC MOSFETs Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 46: Europe SiC MOSFETs Sales Market Size by Country (2020-2025) & (K Unit)

Table 47: Europe SiC MOSFETs Sales Market Size Forecast by Country (2026-2032) & (K Unit)

Table 48: Key SiC MOSFETs Players in China

Table 49: China SiC MOSFETs Sales by Type (2020-2025) & (K Unit)

Table 50: China SiC MOSFETs Sales by Type (2026-2032) & (K Unit)

Table 51: China SiC MOSFETs Revenue by Type (2020-2025) & (US\$ Million)

Table 52: China SiC MOSFETs Revenue by Type (2026-2032) & (US\$ Million)

Table 53: China SiC MOSFETs Sales by Application (2020-2025) & (K Unit)

Table 54: China SiC MOSFETs Sales by Application (2026-2032) & (K Unit)

Table 55: China SiC MOSFETs Revenue by Application (2020-2025) & (US\$ Million)

Table 56: China SiC MOSFETs Revenue by Application (2026-2032) & (US\$ Million)

Table 57: Key SiC MOSFETs Players in APAC (excl. China)

Table 58: APAC (excl. China) SiC MOSFETs Sales by Type (2020-2025) & (K Unit)

Table 59: APAC (excl. China) SiC MOSFETs Sales by Type (2026-2032) & (K Unit)

Table 60: APAC (excl. China) SiC MOSFETs Revenue by Type (2020-2025) & (US\$ Million)

Table 61: APAC (excl. China) SiC MOSFETs Revenue by Type (2026-2032) & (US\$ Million)

Table 62: APAC (excl. China) SiC MOSFETs Sales by Application (2020-2025) & (K Unit)

Table 63: APAC (excl. China) SiC MOSFETs Sales by Application (2026-2032) & (K Unit)

Table 64: APAC (excl. China) SiC MOSFETs Revenue by Application (2020-2025) & (US\$ Million)

Table 65: APAC (excl. China) SiC MOSFETs Revenue by Application (2026-2032) & (US\$ Million)

Table 66: APAC (excl. China) SiC MOSFETs Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 67: APAC (excl. China) SiC MOSFETs Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 68: APAC (excl. China) SiC MOSFETs Sales Market Size by Country (2020-2025) & (K Unit)

Table 69: APAC (excl. China) SiC MOSFETs Sales Market Size Forecast by Country (2026-2032) & (K Unit)

Table 70: Key SiC MOSFETs Players in Latin America

Table 71: Latin America SiC MOSFETs Sales by Type (2020-2025) & (K Unit)

Table 72: Latin America SiC MOSFETs Sales by Type (2026-2032) & (K Unit)

Table 73: Latin America SiC MOSFETs Revenue by Type (2020-2025) & (US\$ Million)

Table 74: Latin America SiC MOSFETs Revenue by Type (2026-2032) & (US\$ Million)

Table 75: Latin America SiC MOSFETs Sales by Application (2020-2025) & (K Unit)

Table 76: Latin America SiC MOSFETs Sales by Application (2026-2032) & (K Unit)

Table 77: Latin America SiC MOSFETs Revenue by Application (2020-2025) & (US\$ Million)

Table 78: Latin America SiC MOSFETs Revenue by Application (2026-2032) & (US\$ Million)

Table 79: Latin America SiC MOSFETs Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 80: Latin America SiC MOSFETs Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 81: Latin America SiC MOSFETs Sales Market Size by Country (2020-2025) & (K Unit)

Unit)

Table 82: Latin America SiC MOSFETs Sales Market Size Forecast by Country (2026-2032) & (K Unit)

Table 83: Key SiC MOSFETs Players in Middle East & Africa

Table 84: Middle East & Africa SiC MOSFETs Sales by Type (2020-2025) & (K Unit)

Table 85: Middle East & Africa SiC MOSFETs Sales by Type (2026-2032) & (K Unit)

Table 86: Middle East & Africa SiC MOSFETs Revenue by Type (2020-2025) & (US\$ Million)

Table 87: Middle East & Africa SiC MOSFETs Revenue by Type (2026-2032) & (US\$ Million)

Table 88: Middle East & Africa SiC MOSFETs Sales by Application (2020-2025) & (K Unit)

Table 89: Middle East & Africa SiC MOSFETs Sales by Application (2026-2032) & (K Unit)

Table 90: Middle East & Africa SiC MOSFETs Revenue by Application (2020-2025) & (US\$ Million)

Table 91: Middle East & Africa SiC MOSFETs Revenue by Application (2026-2032) & (US\$ Million)

Table 92: Middle East & Africa SiC MOSFETs Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 93: Middle East & Africa SiC MOSFETs Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 94: Middle East & Africa SiC MOSFETs Sales Market Size by Country (2020-2025) & (K Unit)

Table 95: Middle East & Africa SiC MOSFETs Sales Market Size Forecast by Country (2026-2032) & (K Unit)

Table 96: Global SiC MOSFETs Market Sales by Key Manufacturers (2021-2025) & (K Unit)

Table 97: Global SiC MOSFETs Sales Market Share by Key Manufacturers (2021-2025)

Table 98: Global SiC MOSFETs Market Revenue by Key Manufacturers (2021-2025) & (US\$ Million)

Table 99: Global SiC MOSFETs Revenue Market Share by Key Manufacturers (2021-2025)

Table 100: Global Average Sales Price by Manufacturers (2021-2025) & (USD/Unit)

Table 101: Global Key Manufacturers Headquarter Location and Key Area Sales

Table 102: Market Mergers & Acquisitions, Expansion

Table 103: Wolfspeed Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 104: Wolfspeed SiC MOSFETs Product Portfolio

Table 105: Wolfspeed SiC MOSFETs Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 106: Infineon Technologies Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 107: Infineon Technologies SiC MOSFETs Product Portfolio

Table 108: Infineon Technologies SiC MOSFETs Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 109: STMicroelectronics Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 110: STMicroelectronics SiC MOSFETs Product Portfolio

Table 111: STMicroelectronics SiC MOSFETs Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 112: ROHM Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 113: ROHM SiC MOSFETs Product Portfolio

Table 114: ROHM SiC MOSFETs Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 115: Microchip Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 116: Microchip SiC MOSFETs Product Portfolio

Table 117: Microchip SiC MOSFETs Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 118: ON Semiconductor Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 119: ON Semiconductor SiC MOSFETs Product Portfolio

Table 120: ON Semiconductor SiC MOSFETs Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 121: Littelfuse Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 122: Littelfuse SiC MOSFETs Product Portfolio

Table 123: Littelfuse SiC MOSFETs Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 124: GeneSiC Semiconductor Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 125: GeneSiC Semiconductor SiC MOSFETs Product Portfolio

Table 126: GeneSiC Semiconductor SiC MOSFETs Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 127: Mitsubishi Electric Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 128: Mitsubishi Electric SiC MOSFETs Product Portfolio

Table 129: Mitsubishi Electric SiC MOSFETs Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 130: BASiC Semiconductor Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 131: BASiC Semiconductor SiC MOSFETs Product Portfolio

Table 132: BASiC Semiconductor SiC MOSFETs Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 133: Upstream Key Raw Material Price List

Table 134: SiC MOSFETs Raw Material Suppliers and Contact Information

Table 135: SiC MOSFETs Typical Customer List

Table 136: SiC MOSFETs Distributors List

List Of Figures

LIST OF FIGURES

Figure 1: SiC MOSFETs Product Pictures

Figure 2: 1200V Picture Scope

Figure 3: 1700V Picture Scope

Figure 4: 650V Picture Scope

Figure 5: Others Picture Scope

Figure 6: Automotive Picture Scope

Figure 7: Industrial Picture Scope

Figure 8: PV Picture Scope

Figure 9: Others Picture Scope

Figure 10: Global SiC MOSFETs Market Size Analysis: 2024 VS 2025 VS 2032 (US\$ Million)

Figure 11: Global SiC MOSFETs Market Revenue and Growth Rate Analysis: (2020-2032) & (US\$ Million)

Figure 12: Global SiC MOSFETs Market Sales and Growth Rate Analysis (2020-2032) & (K Unit)

Figure 13: Global SiC MOSFETs Market Price Trend Analysis (2020-2032) & (USD/Unit)

Figure 14: Global SiC MOSFETs Market Size by Region (2020-2032) & (US\$ Million)

Figure 15: Global SiC MOSFETs Market Share Scenario by Region in Percentage: 2025 Versus 2032

Figure 16: Global SiC MOSFETs Sales Price by Region (2020-2032) & (K Unit)

Figure 17: North America SiC MOSFETs Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 18: North America SiC MOSFETs Revenue Market Share by Players in 2024

Figure 19: North America SiC MOSFETs Sales Market Share by Type (2020-2032)

Figure 20: North America SiC MOSFETs Revenue Market Share by Type (2020-2032)

Figure 21: North America SiC MOSFETs Sales Market Share by Application (2020-2032)

Figure 22: North America SiC MOSFETs Revenue Market Share by Application (2020-2032)

Figure 23: US SiC MOSFETs Revenue (2020-2032) & (US\$ Million)

Figure 24: Canada SiC MOSFETs Revenue (2020-2032) & (US\$ Million)

Figure 25: Europe SiC MOSFETs Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 26: Europe SiC MOSFETs Revenue Market Share by Players in 2024

Figure 27: Europe SiC MOSFETs Sales Market Share by Type (2020-2032)

- Figure 28:Europe SiC MOSFETs Revenue Market Share by Type (2020-2032)
- Figure 29:Europe SiC MOSFETs Sales Market Share by Application (2020-2032)
- Figure 30:Europe SiC MOSFETs Revenue Market Share by Application (2020-2032)
- Figure 31:Germany SiC MOSFETs Revenue (2020-2032) & (US\$ Million)
- Figure 32:France SiC MOSFETs Revenue (2020-2032) & (US\$ Million)
- Figure 33:United Kingdom SiC MOSFETs Revenue (2020-2032) & (US\$ Million)
- Figure 34:Italy SiC MOSFETs Revenue (2020-2032) & (US\$ Million)
- Figure 35:Spain SiC MOSFETs Revenue (2020-2032) & (US\$ Million)
- Figure 36:Benelux SiC MOSFETs Revenue (2020-2032) & (US\$ Million)
- Figure 37:China SiC MOSFETs Market Size and Growth Rate (2020-2032) & (US\$ Million)
- Figure 38:China SiC MOSFETs Revenue Market Share by Players in 2024
- Figure 39:China SiC MOSFETs Sales Market Share by Type (2020-2032)
- Figure 40:China SiC MOSFETs Revenue Market Share by Type (2020-2032)
- Figure 41:China SiC MOSFETs Sales Market Share by Application (2020-2032)
- Figure 42:China SiC MOSFETs Revenue Market Share by Application (2020-2032)
- Figure 43:APAC (excl. China) SiC MOSFETs Market Size and Growth Rate (2020-2032) & (US\$ Million)
- Figure 44:APAC (excl. China) SiC MOSFETs Revenue Market Share by Players in 2024
- Figure 45:APAC (excl. China) SiC MOSFETs Sales Market Share by Type (2020-2032)
- Figure 46:APAC (excl. China) SiC MOSFETs Revenue Market Share by Type (2020-2032)
- Figure 47:APAC (excl. China) SiC MOSFETs Sales Market Share by Application (2020-2032)
- Figure 48:APAC (excl. China) SiC MOSFETs Revenue Market Share by Application (2020-2032)
- Figure 49:Japan SiC MOSFETs Revenue (2020-2032) & (US\$ Million)
- Figure 50:South Korea SiC MOSFETs Revenue (2020-2032) & (US\$ Million)
- Figure 51:India SiC MOSFETs Revenue (2020-2032) & (US\$ Million)
- Figure 52:Australia SiC MOSFETs Revenue (2020-2032) & (US\$ Million)
- Figure 53:Southeast Asia SiC MOSFETs Revenue (2020-2032) & (US\$ Million)
- Figure 54:Latin America SiC MOSFETs Market Size and Growth Rate (2020-2032) & (US\$ Million)
- Figure 55:Latin America SiC MOSFETs Revenue Market Share by Players in 2024
- Figure 56:Latin America SiC MOSFETs Sales Market Share by Type (2020-2032)
- Figure 57:Latin America SiC MOSFETs Revenue Market Share by Type (2020-2032)
- Figure 58:Latin America SiC MOSFETs Sales Market Share by Application (2020-2032)
- Figure 59:Latin America SiC MOSFETs Revenue Market Share by Application

(2020-2032)

Figure 60:Mexico SiC MOSFETs Revenue (2020-2032) & (US\$ Million)

Figure 61:Brazil SiC MOSFETs Revenue (2020-2032) & (US\$ Million)

Figure 62:Middle East & Africa SiC MOSFETs Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 63:Middle East & Africa SiC MOSFETs Revenue Market Share by Players in 2024

Figure 64:Middle East & Africa SiC MOSFETs Sales Market Share by Type (2020-2032)

Figure 65:Middle East & Africa SiC MOSFETs Revenue Market Share by Type (2020-2032)

Figure 66:Middle East & Africa SiC MOSFETs Sales Market Share by Application (2020-2032)

Figure 67:Middle East & Africa SiC MOSFETs Revenue Market Share by Application (2020-2032)

Figure 68:Saudi Arabia SiC MOSFETs Revenue (2020-2032) & (US\$ Million)

Figure 69:South Africa SiC MOSFETs Revenue (2020-2032) & (US\$ Million)

Figure 70:Global SiC MOSFETs Sales Market Share by Key Manufacturers in 2024

Figure 71:Global SiC MOSFETs Revenue Market Share by Key Manufacturers in 2024

Figure 72:Global SiC MOSFETs Industry Competition Landscape

Figure 73:SiC MOSFETs Industry Chain Analysis

Figure 74:Bottom-Up and Top-Down Research Methods

Figure 75:Key Interview Objectives

Figure 76:Data Cross Validation

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