

Global SiC MOSFET for PFC Circuits Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G7B31BA6DC0DEN.html>

Date: July 2026

Pages: 121

Price: US\$ 4,480.00 (Single User License)

ID: G7B31BA6DC0DEN

Abstracts

The global SiC MOSFET for PFC Circuits market size is expected to reach \$ 772 million by 2032, rising at a market growth of 12.5% CAGR during the forecast period (2026-2032).

SiC MOSFET for PFC Circuits is a silicon carbide power switching device designed for power factor correction circuits in high-density server power architectures, enabling high-speed switching, low-loss current regulation, and efficient front-end energy conversion. Compared with silicon-based switching devices or general rectifier devices, its advantages lie in lower switching loss, higher operating frequency, better thermal performance, higher power density, and stronger suitability for high-load server power supplies. In 2025, production was approximately 60 million units and the average price was USD 5.5 per unit. The industry's capacity utilization rate in 2025 was about 85% and the average gross margin was around 33%. Upstream, the key inputs include SiC MOSFETs and packaging materials, with representative suppliers such as Wolfspeed, Infineon Technologies, and Heraeus providing core silicon carbide power devices and advanced packaging materials. The midstream segment focuses on SiC MOSFET device structure design, wafer processing, chip fabrication, gate control optimization, packaging integration, electrical performance testing, thermal reliability verification, and PFC circuit application matching, which together determine switching efficiency, voltage and current endurance, heat dissipation, reliability, and cost competitiveness. Downstream, SiC MOSFET for PFC Circuits is mainly used in GPU server power supplies, general server power supplies, and storage server power supplies.

SiC MOSFET for PFC Circuits will be increasingly shaped by server power supplies that require higher efficiency, faster switching, and stronger thermal control. In GPU server power supplies, its value is concentrated in reducing switching loss, supporting rapid

load response, and sustaining high-power operation. In general server power supplies, it improves front-end conversion efficiency and system reliability. In storage server power supplies, stable switching behavior and long service life are more important for uninterrupted operation. As power architectures become more compact and high-frequency, competition will focus on device loss, voltage endurance, packaging reliability, gate-control optimization, and application validation. Suppliers with strong device engineering and server power matching capability can build deeper customer stickiness.

This report studies the global SiC MOSFET for PFC Circuits production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for SiC MOSFET for PFC Circuits and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of SiC MOSFET for PFC Circuits that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global SiC MOSFET for PFC Circuits total production and demand, 2021-2032, (K Units)

Global SiC MOSFET for PFC Circuits total production value, 2021-2032, (USD Million)

Global SiC MOSFET for PFC Circuits production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global SiC MOSFET for PFC Circuits consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: SiC MOSFET for PFC Circuits domestic production, consumption, key domestic manufacturers and share

Global SiC MOSFET for PFC Circuits production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global SiC MOSFET for PFC Circuits production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global SiC MOSFET for PFC Circuits production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global SiC MOSFET for PFC Circuits market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Wolfspeed (USA), ROHM (Japan),

Infineon (Germany), onsemi (USA), STMicroelectronics (Switzerland), CRMICRO (China), Global Power Technology (China), Vishay (USA), BASiC (China), Microchip (USA), etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World SiC MOSFET for PFC Circuits market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global SiC MOSFET for PFC Circuits Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global SiC MOSFET for PFC Circuits Market, Segmentation by Type:

600V

650V

1200V

Others

Global SiC MOSFET for PFC Circuits Market, Segmentation by Package:

TO-220

TO-247

Others

Global SiC MOSFET for PFC Circuits Market, Segmentation by Current:

Current

Contents

1 SUPPLY SUMMARY

- 1.1 SiC MOSFET for PFC Circuits Introduction
- 1.2 World SiC MOSFET for PFC Circuits Supply & Forecast
 - 1.2.1 World SiC MOSFET for PFC Circuits Production Value (2021 & 2025 & 2032)
 - 1.2.2 World SiC MOSFET for PFC Circuits Production (2021-2032)
 - 1.2.3 World SiC MOSFET for PFC Circuits Pricing Trends (2021-2032)
- 1.3 World SiC MOSFET for PFC Circuits Production by Region (Based on Production Site)
 - 1.3.1 World SiC MOSFET for PFC Circuits Production Value by Region (2021-2032)
 - 1.3.2 World SiC MOSFET for PFC Circuits Production by Region (2021-2032)
 - 1.3.3 World SiC MOSFET for PFC Circuits Average Price by Region (2021-2032)
 - 1.3.4 North America SiC MOSFET for PFC Circuits Production (2021-2032)
 - 1.3.5 Europe SiC MOSFET for PFC Circuits Production (2021-2032)
 - 1.3.6 China SiC MOSFET for PFC Circuits Production (2021-2032)
 - 1.3.7 Japan SiC MOSFET for PFC Circuits Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 SiC MOSFET for PFC Circuits Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 SiC MOSFET for PFC Circuits Major Market Trends

2 DEMAND SUMMARY

- 2.1 World SiC MOSFET for PFC Circuits Demand (2021-2032)
- 2.2 World SiC MOSFET for PFC Circuits Consumption by Region
 - 2.2.1 World SiC MOSFET for PFC Circuits Consumption by Region (2021-2026)
 - 2.2.2 World SiC MOSFET for PFC Circuits Consumption Forecast by Region (2027-2032)
- 2.3 United States SiC MOSFET for PFC Circuits Consumption (2021-2032)
- 2.4 China SiC MOSFET for PFC Circuits Consumption (2021-2032)
- 2.5 Europe SiC MOSFET for PFC Circuits Consumption (2021-2032)
- 2.6 Japan SiC MOSFET for PFC Circuits Consumption (2021-2032)
- 2.7 South Korea SiC MOSFET for PFC Circuits Consumption (2021-2032)
- 2.8 ASEAN SiC MOSFET for PFC Circuits Consumption (2021-2032)
- 2.9 India SiC MOSFET for PFC Circuits Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World SiC MOSFET for PFC Circuits Production Value by Manufacturer (2021-2026)
- 3.2 World SiC MOSFET for PFC Circuits Production by Manufacturer (2021-2026)
- 3.3 World SiC MOSFET for PFC Circuits Average Price by Manufacturer (2021-2026)
- 3.4 SiC MOSFET for PFC Circuits Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global SiC MOSFET for PFC Circuits Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for SiC MOSFET for PFC Circuits in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for SiC MOSFET for PFC Circuits in 2025
- 3.6 SiC MOSFET for PFC Circuits Market: Overall Company Footprint Analysis
 - 3.6.1 SiC MOSFET for PFC Circuits Market: Region Footprint
 - 3.6.2 SiC MOSFET for PFC Circuits Market: Company Product Type Footprint
 - 3.6.3 SiC MOSFET for PFC Circuits Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: SiC MOSFET for PFC Circuits Production Value Comparison
 - 4.1.1 United States VS China: SiC MOSFET for PFC Circuits Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: SiC MOSFET for PFC Circuits Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: SiC MOSFET for PFC Circuits Production Comparison
 - 4.2.1 United States VS China: SiC MOSFET for PFC Circuits Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: SiC MOSFET for PFC Circuits Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: SiC MOSFET for PFC Circuits Consumption Comparison
 - 4.3.1 United States VS China: SiC MOSFET for PFC Circuits Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: SiC MOSFET for PFC Circuits Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based SiC MOSFET for PFC Circuits Manufacturers and Market Share, 2021-2026

4.4.1 United States Based SiC MOSFET for PFC Circuits Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers SiC MOSFET for PFC Circuits Production Value (2021-2026)

4.4.3 United States Based Manufacturers SiC MOSFET for PFC Circuits Production (2021-2026)

4.5 China Based SiC MOSFET for PFC Circuits Manufacturers and Market Share

4.5.1 China Based SiC MOSFET for PFC Circuits Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers SiC MOSFET for PFC Circuits Production Value (2021-2026)

4.5.3 China Based Manufacturers SiC MOSFET for PFC Circuits Production (2021-2026)

4.6 Rest of World Based SiC MOSFET for PFC Circuits Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based SiC MOSFET for PFC Circuits Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers SiC MOSFET for PFC Circuits Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers SiC MOSFET for PFC Circuits Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World SiC MOSFET for PFC Circuits Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 600V

5.2.2 650V

5.2.3 1200V

5.2.4 Others

5.3 Market Segment by Type

5.3.1 World SiC MOSFET for PFC Circuits Production by Type (2021-2032)

5.3.2 World SiC MOSFET for PFC Circuits Production Value by Type (2021-2032)

5.3.3 World SiC MOSFET for PFC Circuits Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY PACKAGE

6.1 World SiC MOSFET for PFC Circuits Market Size Overview by Package: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Package

6.2.1 TO-220

6.2.2 TO-247

6.2.3 Others

6.3 Market Segment by Package

6.3.1 World SiC MOSFET for PFC Circuits Production by Package (2021-2032)

6.3.2 World SiC MOSFET for PFC Circuits Production Value by Package (2021-2032)

6.3.3 World SiC MOSFET for PFC Circuits Average Price by Package (2021-2032)

7 MARKET ANALYSIS BY CURRENT

7.1 World SiC MOSFET for PFC Circuits Market Size Overview by Current: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Current

7.2.1 Current

List Of Tables

LIST OF TABLES

- Table 1. World SiC MOSFET for PFC Circuits Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World SiC MOSFET for PFC Circuits Production Value by Region (2021-2026) & (USD Million)
- Table 3. World SiC MOSFET for PFC Circuits Production Value by Region (2027-2032) & (USD Million)
- Table 4. World SiC MOSFET for PFC Circuits Production Value Market Share by Region (2021-2026)
- Table 5. World SiC MOSFET for PFC Circuits Production Value Market Share by Region (2027-2032)
- Table 6. World SiC MOSFET for PFC Circuits Production by Region (2021-2026) & (K Units)
- Table 7. World SiC MOSFET for PFC Circuits Production by Region (2027-2032) & (K Units)
- Table 8. World SiC MOSFET for PFC Circuits Production Market Share by Region (2021-2026)
- Table 9. World SiC MOSFET for PFC Circuits Production Market Share by Region (2027-2032)
- Table 10. World SiC MOSFET for PFC Circuits Average Price by Region (2021-2026) & (US\$/Unit)
- Table 11. World SiC MOSFET for PFC Circuits Average Price by Region (2027-2032) & (US\$/Unit)
- Table 12. SiC MOSFET for PFC Circuits Major Market Trends
- Table 13. World SiC MOSFET for PFC Circuits Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
- Table 14. World SiC MOSFET for PFC Circuits Consumption by Region (2021-2026) & (K Units)
- Table 15. World SiC MOSFET for PFC Circuits Consumption Forecast by Region (2027-2032) & (K Units)
- Table 16. World SiC MOSFET for PFC Circuits Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key SiC MOSFET for PFC Circuits Producers in 2025
- Table 18. World SiC MOSFET for PFC Circuits Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key SiC MOSFET for PFC Circuits Producers in 2025

Table 20. World SiC MOSFET for PFC Circuits Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global SiC MOSFET for PFC Circuits Company Evaluation Quadrant

Table 22. World SiC MOSFET for PFC Circuits Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and SiC MOSFET for PFC Circuits Production Site of Key Manufacturer

Table 24. SiC MOSFET for PFC Circuits Market: Company Product Type Footprint

Table 25. SiC MOSFET for PFC Circuits Market: Company Product Application Footprint

Table 26. SiC MOSFET for PFC Circuits Competitive Factors

Table 27. SiC MOSFET for PFC Circuits New Entrant and Capacity Expansion Plans

Table 28. SiC MOSFET for PFC Circuits Mergers & Acquisitions Activity

Table 29. United States VS China SiC MOSFET for PFC Circuits Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China SiC MOSFET for PFC Circuits Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China SiC MOSFET for PFC Circuits Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based SiC MOSFET for PFC Circuits Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers SiC MOSFET for PFC Circuits Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers SiC MOSFET for PFC Circuits Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers SiC MOSFET for PFC Circuits Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers SiC MOSFET for PFC Circuits Production Market Share (2021-2026)

Table 37. China Based SiC MOSFET for PFC Circuits Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers SiC MOSFET for PFC Circuits Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers SiC MOSFET for PFC Circuits Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers SiC MOSFET for PFC Circuits Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers SiC MOSFET for PFC Circuits Production Market Share (2021-2026)

Table 42. Rest of World Based SiC MOSFET for PFC Circuits Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers SiC MOSFET for PFC Circuits Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers SiC MOSFET for PFC Circuits Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers SiC MOSFET for PFC Circuits Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers SiC MOSFET for PFC Circuits Production Market Share (2021-2026)

Table 47. World SiC MOSFET for PFC Circuits Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World SiC MOSFET for PFC Circuits Production by Type (2021-2026) & (K Units)

Table 49. World SiC MOSFET for PFC Circuits Production by Type (2027-2032) & (K Units)

Table 50. World SiC MOSFET for PFC Circuits Production Value by Type (2021-2026) & (USD Million)

Table 51. World SiC MOSFET for PFC Circuits Production Value by Type (2027-2032) & (USD Million)

Table 52. World SiC MOSFET for PFC Circuits Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World SiC MOSFET for PFC Circuits Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World SiC MOSFET for PFC Circuits Production Value by Package, (USD Million), 2021 & 2025 & 2032

Table 55. World SiC MOSFET for PFC Circuits Production by Package (2021-2026) & (K Units)

Table 56. World SiC MOSFET for PFC Circuits Production by Package (2027-2032) & (K Units)

Table 57. World SiC MOSFET for PFC Circuits Production Value by Package (2021-2026) & (USD Million)

Table 58. World SiC MOSFET for PFC Circuits Production Value by Package (2027-2032) & (USD Million)

Table 59. World SiC MOSFET for PFC Circuits Average Price by Package (2021-2026) & (US\$/Unit)

Table 60. World SiC MOSFET for PFC Circuits Average Price by Package (2027-2032)

& (US\$/Unit)

Table 61. World SiC MOSFET for PFC Circuits Production Value by Current, (USD Million), 2021 & 2025 & 2032

Table 62. World SiC MOSFET for PFC Circuits Production by Current (2021-2026) & (K Units)

Table 63. World SiC MOSFET for PFC Circuits Production by Current (2027-2032) & (K Units)

Table 64. World SiC MOSFET for PFC Circuits Production Value by Current (2021-2026) & (USD Million)

Table 65. World SiC MOSFET for PFC Circuits Production Value by Current (2027-2032) & (USD Million)

Table 66. World SiC MOSFET for PFC Circuits Average Price by Current (2021-2026) & (US\$/Unit)

Table 67. World SiC MOSFET for PFC Circuits Average Price by Current (2027-2032) & (US\$/Unit)

Table 68. World SiC MOSFET for PFC Circuits Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World SiC MOSFET for PFC Circuits Production by Application (2021-2026) & (K Units)

Table 70. World SiC MOSFET for PFC Circuits Production by Application (2027-2032) & (K Units)

Table 71. World SiC MOSFET for PFC Circuits Production Value by Application (2021-2026) & (USD Million)

Table 72. World SiC MOSFET for PFC Circuits Production Value by Application (2027-2032) & (USD Million)

Table 73. World SiC MOSFET for PFC Circuits Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World SiC MOSFET for PFC Circuits Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Wolfspeed (USA) Basic Information, Manufacturing Base and Competitors

Table 76. Wolfspeed (USA) Major Business

Table 77. Wolfspeed (USA) SiC MOSFET for PFC Circuits Product and Services

Table 78. Wolfspeed (USA) SiC MOSFET for PFC Circuits Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Wolfspeed (USA) Recent Developments/Updates

Table 80. Wolfspeed (USA) Competitive Strengths & Weaknesses

Table 81. ROHM (Japan) Basic Information, Manufacturing Base and Competitors

Table 82. ROHM (Japan) Major Business

Table 83. ROHM (Japan) SiC MOSFET for PFC Circuits Product and Services
Table 84. ROHM (Japan) SiC MOSFET for PFC Circuits Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. ROHM (Japan) Recent Developments/Updates
Table 86. ROHM (Japan) Competitive Strengths & Weaknesses
Table 87. Infineon (Germany) Basic Information, Manufacturing Base and Competitors
Table 88. Infineon (Germany) Major Business
Table 89. Infineon (Germany) SiC MOSFET for PFC Circuits Product and Services
Table 90. Infineon (Germany) SiC MOSFET for PFC Circuits Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. Infineon (Germany) Recent Developments/Updates
Table 92. Infineon (Germany) Competitive Strengths & Weaknesses
Table 93. onsemi (USA) Basic Information, Manufacturing Base and Competitors
Table 94. onsemi (USA) Major Business
Table 95. onsemi (USA) SiC MOSFET for PFC Circuits Product and Services
Table 96. onsemi (USA) SiC MOSFET for PFC Circuits Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. onsemi (USA) Recent Developments/Updates
Table 98. onsemi (USA) Competitive Strengths & Weaknesses
Table 99. STMicroelectronics (Switzerland) Basic Information, Manufacturing Base and Competitors
Table 100. STMicroelectronics (Switzerland) Major Business
Table 101. STMicroelectronics (Switzerland) SiC MOSFET for PFC Circuits Product and Services
Table 102. STMicroelectronics (Switzerland) SiC MOSFET for PFC Circuits Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. STMicroelectronics (Switzerland) Recent Developments/Updates
Table 104. STMicroelectronics (Switzerland) Competitive Strengths & Weaknesses
Table 105. CRMICRO (China) Basic Information, Manufacturing Base and Competitors
Table 106. CRMICRO (China) Major Business
Table 107. CRMICRO (China) SiC MOSFET for PFC Circuits Product and Services
Table 108. CRMICRO (China) SiC MOSFET for PFC Circuits Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. CRMICRO (China) Recent Developments/Updates

Table 110. CRMICRO (China) Competitive Strengths & Weaknesses

Table 111. Global Power Technology (China) Basic Information, Manufacturing Base and Competitors

Table 112. Global Power Technology (China) Major Business

Table 113. Global Power Technology (China) SiC MOSFET for PFC Circuits Product and Services

Table 114. Global Power Technology (China) SiC MOSFET for PFC Circuits Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Global Power Technology (China) Recent Developments/Updates

Table 116. Global Power Technology (China) Competitive Strengths & Weaknesses

Table 117. Vishay (USA) Basic Information, Manufacturing Base and Competitors

Table 118. Vishay (USA) Major Business

Table 119. Vishay (USA) SiC MOSFET for PFC Circuits Product and Services

Table 120. Vishay (USA) SiC MOSFET for PFC Circuits Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Vishay (USA) Recent Developments/Updates

Table 122. Vishay (USA) Competitive Strengths & Weaknesses

Table 123. BASiC (China) Basic Information, Manufacturing Base and Competitors

Table 124. BASiC (China) Major Business

Table 125. BASiC (China) SiC MOSFET for PFC Circuits Product and Services

Table 126. BASiC (China) SiC MOSFET for PFC Circuits Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. BASiC (China) Recent Developments/Updates

Table 128. BASiC (China) Competitive Strengths & Weaknesses

Table 129. Microchip (USA) Basic Information, Manufacturing Base and Competitors

Table 130. Microchip (USA) Major Business

Table 131. Microchip (USA) SiC MOSFET for PFC Circuits Product and Services

Table 132. Microchip (USA) SiC MOSFET for PFC Circuits Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Microchip (USA) Recent Developments/Updates

Table 134. Microchip (USA) Competitive Strengths & Weaknesses

Table 135. Toshiba (Japan) Basic Information, Manufacturing Base and Competitors

Table 136. Toshiba (Japan) Major Business

Table 137. Toshiba (Japan) SiC MOSFET for PFC Circuits Product and Services

Table 138. Toshiba (Japan) SiC MOSFET for PFC Circuits Production (K Units), Price

(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Toshiba (Japan) Recent Developments/Updates

Table 140. Toshiba (Japan) Competitive Strengths & Weaknesses

Table 141. WeEn Semiconductors (China) Basic Information, Manufacturing Base and Competitors

Table 142. WeEn Semiconductors (China) Major Business

Table 143. WeEn Semiconductors (China) SiC MOSFET for PFC Circuits Product and Services

Table 144. WeEn Semiconductors (China) SiC MOSFET for PFC Circuits Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. WeEn Semiconductors (China) Recent Developments/Updates

Table 146. WeEn Semiconductors (China) Competitive Strengths & Weaknesses

Table 147. SemiQ (USA) Basic Information, Manufacturing Base and Competitors

Table 148. SemiQ (USA) Major Business

Table 149. SemiQ (USA) SiC MOSFET for PFC Circuits Product and Services

Table 150. SemiQ (USA) SiC MOSFET for PFC Circuits Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. SemiQ (USA) Recent Developments/Updates

Table 152. SemiQ (USA) Competitive Strengths & Weaknesses

Table 153. Sanan Semiconductor (China) Basic Information, Manufacturing Base and Competitors

Table 154. Sanan Semiconductor (China) Major Business

Table 155. Sanan Semiconductor (China) SiC MOSFET for PFC Circuits Product and Services

Table 156. Sanan Semiconductor (China) SiC MOSFET for PFC Circuits Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Sanan Semiconductor (China) Recent Developments/Updates

Table 158. Sanan Semiconductor (China) Competitive Strengths & Weaknesses

Table 159. Global Key Players of SiC MOSFET for PFC Circuits Upstream (Raw Materials)

Table 160. Global SiC MOSFET for PFC Circuits Typical Customers

Table 161. SiC MOSFET for PFC Circuits Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. SiC MOSFET for PFC Circuits Picture

Figure 2. World SiC MOSFET for PFC Circuits Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World SiC MOSFET for PFC Circuits Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World SiC MOSFET for PFC Circuits Production (2021-2032) & (K Units)

Figure 5. World SiC MOSFET for PFC Circuits Average Price (2021-2032) & (US\$/Unit)

Figure 6. World SiC MOSFET for PFC Circuits Production Value Market Share by Region (2021-2032)

Figure 7. World SiC MOSFET for PFC Circuits Production Market Share by Region (2021-2032)

Figure 8. North America SiC MOSFET for PFC Circuits Production (2021-2032) & (K Units)

Figure 9. Europe SiC MOSFET for PFC Circuits Production (2021-2032) & (K Units)

Figure 10. China SiC MOSFET for PFC Circuits Production (2021-2032) & (K Units)

Figure 11. Japan SiC MOSFET for PFC Circuits Production (2021-2032) & (K Units)

Figure 12. SiC MOSFET for PFC Circuits Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World SiC MOSFET for PFC Circuits Consumption (2021-2032) & (K Units)

Figure 15. World SiC MOSFET for PFC Circuits Consumption Market Share by Region (2021-2032)

Figure 16. United States SiC MOSFET for PFC Circuits Consumption (2021-2032) & (K Units)

Figure 17. China SiC MOSFET for PFC Circuits Consumption (2021-2032) & (K Units)

Figure 18. Europe SiC MOSFET for PFC Circuits Consumption (2021-2032) & (K Units)

Figure 19. Japan SiC MOSFET for PFC Circuits Consumption (2021-2032) & (K Units)

Figure 20. South Korea SiC MOSFET for PFC Circuits Consumption (2021-2032) & (K Units)

Figure 21. ASEAN SiC MOSFET for PFC Circuits Consumption (2021-2032) & (K Units)

Figure 22. India SiC MOSFET for PFC Circuits Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of SiC MOSFET for PFC Circuits by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for SiC MOSFET for PFC Circuits Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for SiC MOSFET for PFC

Circuits Markets in 2025

Figure 26. United States VS China: SiC MOSFET for PFC Circuits Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: SiC MOSFET for PFC Circuits Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: SiC MOSFET for PFC Circuits Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers SiC MOSFET for PFC Circuits Production Market Share 2025

Figure 30. China Based Manufacturers SiC MOSFET for PFC Circuits Production Market Share 2025

Figure 31. Rest of World Based Manufacturers SiC MOSFET for PFC Circuits Production Market Share 2025

Figure 32. World SiC MOSFET for PFC Circuits Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World SiC MOSFET for PFC Circuits Production Value Market Share by Type in 2025

Figure 34. 600V

Figure 35. 650V

Figure 36. 1200V

Figure 37. Others

Figure 38. World SiC MOSFET for PFC Circuits Production Market Share by Type (2021-2032)

Figure 39. World SiC MOSFET for PFC Circuits Production Value Market Share by Type (2021-2032)

Figure 40. World SiC MOSFET for PFC Circuits Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. World SiC MOSFET for PFC Circuits Production Value by Package, (USD Million), 2021 & 2025 & 2032

Figure 42. World SiC MOSFET for PFC Circuits Production Value Market Share by Package in 2025

Figure 43. TO-220

Figure 44. TO-247

Figure 45. Others

Figure 46. World SiC MOSFET for PFC Circuits Production Market Share by Package (2021-2032)

Figure 47. World SiC MOSFET for PFC Circuits Production Value Market Share by Package (2021-2032)

Figure 48. World SiC MOSFET for PFC Circuits Average Price by Package (2021-2032)

& (US\$/Unit)

Figure 49. World SiC MOSFET for PFC Circuits Production Value by Current, (USD Million), 2021 & 2025 & 2032

Figure 50. World SiC MOSFET for PFC Circuits Production Value Market Share by Current in 2025

Figure 51. Current

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