

Global SiC Schottky Diode for PFC Market Growth 2026-2032

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Abstracts

The global SiC Schottky Diode for PFC market size is predicted to grow from US\$ 223 million in 2025 to US\$ 500 million in 2032; it is expected to grow at a CAGR of 11.9% from 2026 to 2032.

SiC Schottky Diode for PFC is a silicon carbide Schottky rectifier device used in PFC front-end circuits, designed to deliver high-efficiency rectification, near-zero reverse-recovery behavior, stable current conduction, and improved power factor correction in high-density server power architectures. Compared with conventional silicon rectifier devices, its advantages lie in lower recovery loss, higher operating frequency, better thermal performance, higher power density, and stronger suitability for high-load server power supplies. In 2025, production was approximately 65 million units and the average price was USD 3.5 per unit. The industry's capacity utilization rate in 2025 was about 80% and the average gross margin was around 30%. Upstream, the key inputs include SiC Schottky diodes and packaging materials, with representative suppliers such as Wolfspeed, Infineon Technologies, and Heraeus providing silicon carbide diode materials and advanced packaging materials. The midstream segment focuses on Schottky diode structure design, wafer processing, chip fabrication, junction barrier optimization, packaging integration, electrical performance testing, thermal reliability verification, and PFC circuit application matching, which together determine rectification efficiency, voltage and current endurance, heat dissipation, reliability, and cost competitiveness. Downstream, SiC Schottky Diode for PFC is mainly used in GPU server power supplies, general server power supplies, and storage server power supplies.

SiC Schottky Diode for PFC will be increasingly valued as server power supplies pursue lower rectification loss, higher switching frequency, and more compact thermal design.

In GPU server power supplies, its role is concentrated in reducing reverse-recovery loss, improving front-end efficiency, and supporting continuous high-load operation. General server power supplies use it to improve conversion stability and system reliability, while storage server power supplies place more weight on long service life and stable conduction. As downstream architectures move toward higher power density, competition will focus on diode consistency, voltage endurance, packaging reliability, heat dissipation, and PFC circuit matching. Suppliers with strong process control and application validation can build deeper customer stickiness.

LP Information, Inc. (LPI) ' newest research report, the "SiC Schottky Diode for PFC Industry Forecast" looks at past sales and reviews total world SiC Schottky Diode for PFC sales in 2025, providing a comprehensive analysis by region and market sector of projected SiC Schottky Diode for PFC sales for 2026 through 2032. With SiC Schottky Diode for PFC sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world SiC Schottky Diode for PFC industry.

This Insight Report provides a comprehensive analysis of the global SiC Schottky Diode for PFC landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on SiC Schottky Diode for PFC portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global SiC Schottky Diode for PFC market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for SiC Schottky Diode for PFC and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global SiC Schottky Diode for PFC.

This report presents a comprehensive overview, market shares, and growth opportunities of SiC Schottky Diode for PFC market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

600V

650V

1200V

Others

Segmentation by Package:

TO-220

TO-247

Others

Segmentation by Current:

Current

Contents

1 SCOPE OF THE REPORT

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

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global SiC Schottky Diode for PFC Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for SiC Schottky Diode for PFC by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for SiC Schottky Diode for PFC by Country/Region, 2021, 2025 & 2032

2.2 SiC Schottky Diode for PFC Segment by Type

- 2.2.1 600V
- 2.2.2 650V
- 2.2.3 1200V
- 2.2.4 Others
- 2.2.5 SiC Schottky Diode for PFC Sales by Type
 - 2.2.5.1 Global SiC Schottky Diode for PFC Sales Market Share by Type (2021-2026)
 - 2.2.5.2 Global SiC Schottky Diode for PFC Revenue and Market Share by Type (2021-2026)
 - 2.2.5.3 Global SiC Schottky Diode for PFC Sale Price by Type (2021-2026)

2.3 SiC Schottky Diode for PFC Segment by Package

- 2.3.1 TO-220
- 2.3.2 TO-247
- 2.3.3 Others
- 2.3.4 SiC Schottky Diode for PFC Sales by Package
 - 2.3.4.1 Global SiC Schottky Diode for PFC Sales Market Share by Package (2021-2026)
 - 2.3.4.2 Global SiC Schottky Diode for PFC Revenue and Market Share by Package

(2021-2026)

2.3.4.3 Global SiC Schottky Diode for PFC Sale Price by Package (2021-2026)

2.4 SiC Schottky Diode for PFC Segment by Current

2.4.1 Current

List Of Tables

LIST OF TABLES

Table 1. SiC Schottky Diode for PFC Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. SiC Schottky Diode for PFC Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of 600V

Table 4. Major Players of 650V

Table 5. Major Players of 1200V

Table 6. Major Players of Others

Table 7. Global SiC Schottky Diode for PFC Sales by Type (2021-2026) & (K Units)

Table 8. Global SiC Schottky Diode for PFC Sales Market Share by Type (2021-2026)

Table 9. Global SiC Schottky Diode for PFC Revenue by Type (2021-2026) & (\$ million)

Table 10. Global SiC Schottky Diode for PFC Revenue Market Share by Type (2021-2026)

Table 11. Global SiC Schottky Diode for PFC Sale Price by Type (2021-2026) & (US\$/Unit)

Table 12. Major Players of TO-220

Table 13. Major Players of TO-247

Table 14. Major Players of Others

Table 15. Global SiC Schottky Diode for PFC Sales by Package (2021-2026) & (K Units)

Table 16. Global SiC Schottky Diode for PFC Sales Market Share by Package (2021-2026)

Table 17. Global SiC Schottky Diode for PFC Revenue by Package (2021-2026) & (\$ million)

Table 18. Global SiC Schottky Diode for PFC Revenue Market Share by Package (2021-2026)

Table 19. Global SiC Schottky Diode for PFC Sale Price by Package (2021-2026) & (US\$/Unit)

Table 20. Major Players of Current

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of SiC Schottky Diode for PFC
- Figure 2. SiC Schottky Diode for PFC Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global SiC Schottky Diode for PFC Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global SiC Schottky Diode for PFC Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. SiC Schottky Diode for PFC Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. SiC Schottky Diode for PFC Sales Market Share by Country/Region (2025)
- Figure 10. SiC Schottky Diode for PFC Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of 600V
- Figure 12. Product Picture of 650V
- Figure 13. Product Picture of 1200V
- Figure 14. Product Picture of Others
- Figure 15. Global SiC Schottky Diode for PFC Sales Market Share by Type in 2026
- Figure 16. Global SiC Schottky Diode for PFC Revenue Market Share by Type (2021-2026)
- Figure 17. Product Picture of TO-220
- Figure 18. Product Picture of TO-247
- Figure 19. Product Picture of Others
- Figure 20. Global SiC Schottky Diode for PFC Sales Market Share by Package in 2026
- Figure 21. Global SiC Schottky Diode for PFC Revenue Market Share by Package (2021-2026)
- Figure 22. Product Picture of Current

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