

Global SiC Diode for PFC Market Growth 2026-2032

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Abstracts

The global SiC 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 Diode for PFC is a silicon carbide diode used in PFC front-end circuits, designed to deliver high-efficiency rectification, low reverse-recovery loss, 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 diode structure design, wafer processing, chip fabrication, junction and 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 Diode for PFC is mainly used in GPU server power supplies, general server power supplies, and storage server power supplies.

SiC Diode for PFC is gaining importance as server power architectures move toward higher efficiency, higher frequency, and tighter thermal constraints. In GPU server power supplies, its value is concentrated in lowering reverse-recovery loss, improving front-end efficiency, and supporting continuous high-load operation. In general server power supplies, it improves rectification stability and system reliability. In storage server

power supplies, long service life and stable conduction are critical for uninterrupted operation. As downstream designs become more compact, competition will focus on diode performance, packaging reliability, heat dissipation, voltage endurance, and circuit matching. Suppliers with strong consistency control and application validation can build deeper customer relationships.

LP Information, Inc. (LPI) ' newest research report, the "SiC Diode for PFC Industry Forecast" looks at past sales and reviews total world SiC Diode for PFC sales in 2025, providing a comprehensive analysis by region and market sector of projected SiC Diode for PFC sales for 2026 through 2032. With SiC 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 Diode for PFC industry.

This Insight Report provides a comprehensive analysis of the global SiC 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 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 Diode for PFC market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for SiC 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 Diode for PFC.

This report presents a comprehensive overview, market shares, and growth opportunities of SiC 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

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