

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

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Abstracts

The global SiC Diode for PFC market size is expected to reach \$ 507 million by 2032, rising at a market growth of 11.2% CAGR during the forecast period (2026-2032).

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.

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

This report is a detailed and comprehensive analysis of the world market for SiC Diode for PFC 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 Diode for PFC that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global SiC Diode for PFC 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 Diode for PFC 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 Diode for PFC Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global SiC Diode for PFC Market, Segmentation by Type:

600V

650V

1200V

Others

Global SiC Diode for PFC Market, Segmentation by Package:

TO-220

TO-247

Others

Global SiC Diode for PFC Market, Segmentation by Current:

Current

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