

# Global SiC Power Devices 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 Power Devices market size will reach 5,678.47 Million USD in 2025 and is projected to reach 33,665.17 Million USD by 2032, with a CAGR of 28.95% (2025-2032). Notably, the China SiC Power Devices 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

Silicon Carbide (SiC) power devices are a type of semiconductor device that leverage silicon carbide as their semiconductor material, offering notable advantages over traditional silicon-based devices. SiC power devices are capable of operating at higher temperatures, voltages, and frequencies, with reduced switching losses and increased power density. This allows for more efficient power conversion and management in various applications such as electric vehicles, renewable energy systems, and industrial power electronics. SiC power devices are increasingly recognized for their potential to significantly enhance energy efficiency, reliability, and performance across a wide range of power electronics applications.

The major global manufacturers of SiC Power Devices include ROHM Semiconductor, Infineon, Mitsubishi Electric Corp, STMicroelectronics N.V., Toshiba Corp, Fuji Electric Co Ltd, Infineon Technologies, ON Semiconductor Corp, 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 Power Devices. 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 Power Devices 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 Power Devices 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 Power Devices 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 Power Devices Include:

ROHM Semiconductor

Infineon

Mitsubishi Electric Corp

STMicroelectronics N.V.

Toshiba Corp

Fuji Electric Co Ltd

Infineon Technologies

ON Semiconductor Corp

SiC Power Devices Product Segment Include:

SiC Power Device Module

SiC Power Device Diodes

SiC Power Devices Product Application Include:

Motor Drivers

Power Supplies

Photovoltaics

Others

## **Chapter Scope**

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