

# Global Automotive Grade SiC SBD Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global Automotive Grade SiC SBD market size was valued at US\$ 418 million in 2024 and is forecast to a readjusted size of USD 689 million by 2031 with a CAGR of 7.6% during review period.

Automotive-grade silicon carbide Schottky diodes are high-performance power semiconductor devices made of silicon carbide materials and Schottky junction technology. They are specially designed for automotive electronic systems and can achieve high-efficiency, low-loss power conversion and protection in high-temperature, high-frequency and high-voltage environments. Such devices are commonly used in new energy vehicle drive systems, power conversion, on-board charging devices, and other on-board power management systems to improve overall power density and energy efficiency.

This report is a detailed and comprehensive analysis for global Automotive Grade SiC SBD market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

### **Key Features:**

Global Automotive Grade SiC SBD market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Automotive Grade SiC SBD market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Automotive Grade SiC SBD market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Automotive Grade SiC SBD market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Automotive Grade SiC SBD

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Automotive Grade SiC SBD market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Onsemi, STMicroelectronics, ROHM, Fuji Electric, Toshiba, Qorvo, Inventchip Technology, Foshan NationStar Optoelectronics, Hunan Sanan Semiconductor, TOPE Technologies, etc.

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

### **Market Segmentation**

Automotive Grade SiC SBD market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

## Market segment by Type

Voltage: 650 V

Voltage: 1200 V

Others

## Market segment by Application

Pure Electric Vehicle Charging

Hybrid Electric Vehicle Charging

## Major players covered

Onsemi

STMicroelectronics

ROHM

Fuji Electric

Toshiba

Qorvo

Inventchip Technology

Foshan NationStar Optoelectronics

Hunan Sanan Semiconductor

TOPE Technologies

## CR MICRO

### PN Junction Semiconductor (Zhejiang)

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

### **The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Automotive Grade SiC SBD product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive Grade SiC SBD, with price, sales quantity, revenue, and global market share of Automotive Grade SiC SBD from 2020 to 2025.

Chapter 3, the Automotive Grade SiC SBD competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive Grade SiC SBD breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Automotive Grade SiC SBD market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Automotive Grade SiC SBD.

Chapter 14 and 15, to describe Automotive Grade SiC SBD sales channel, distributors, customers, research findings and conclusion.

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