

Global SiC MOSFET ICs 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 SiC MOSFET ICs market size was valued at US\$ 62.7 million in 2024 and is forecast to a readjusted size of USD 177 million by 2031 with a CAGR of 16.2% during review period.

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.

Silicon Carbide (SiC) MOSFET integrated circuits (ICs) are high-performance power semiconductor devices that utilize the wide bandgap properties of SiC to achieve superior efficiency, high voltage tolerance, and excellent thermal conductivity. These characteristics make SiC MOSFET ICs ideal for demanding applications such as electric vehicles (EVs), renewable energy systems, industrial automation, and aerospace. Available in both discrete and module forms, SiC MOSFETs are commonly employed in inverters, onboard chargers, DC-DC converters, and motor drives, offering advantages like reduced switching losses, compact size, and enhanced reliability under high-temperature conditions.

The global SiC MOSFET market is experiencing rapid growth, driven by the increasing adoption of EVs, expansion of renewable energy installations, and advancements in power electronics. Technological innovations, including the development of larger SiC wafers (transitioning from 6-inch to 8-inch), improved packaging techniques, and integration with AI and IoT for smart power management, are enhancing device performance and reducing costs. As industries continue to prioritize energy efficiency and sustainability, SiC MOSFET ICs are poised to play a pivotal role in the evolution of

next-generation power systems across various sectors.

This report is a detailed and comprehensive analysis for global SiC MOSFET ICs 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.

Key Features:

Global SiC MOSFET ICs market size and forecasts, in consumption value (\$ Million), sales quantity (K Pieces), and average selling prices (US\$/Piece), 2020-2031

Global SiC MOSFET ICs market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pieces), and average selling prices (US\$/Piece), 2020-2031

Global SiC MOSFET ICs market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pieces), and average selling prices (US\$/Piece), 2020-2031

Global SiC MOSFET ICs market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pieces), and ASP (US\$/Piece), 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 SiC MOSFET ICs
- 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 SiC MOSFET ICs 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 Infineon Technologies, ROHM Semiconductor, Wolfspeed, Mitsubishi Electric, Toshiba, STMicroelectronics, GeneSiC Semiconductor Inc., onsemi, Microchip Technology, Littelfuse (IXYS), etc.

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

Market Segmentation

SiC MOSFET ICs 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

600V & 650V

1200V

1700V

Market segment by Application

Electric Vehicle

Rail Traffic

Solar Inverter

Industrial

UPS

Others

Major players covered

Infineon Technologies

ROHM Semiconductor

Wolfspeed

Mitsubishi Electric

Toshiba

STMicroelectronics

GeneSiC Semiconductor Inc.

onsemi

Microchip Technology

Littelfuse (IXYS)

Fuji Electric

Bosch

Semikron Danfoss

GeneSiC Semiconductor Inc.

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 SiC MOSFET ICs product scope, market overview, market

estimation caveats and base year.

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

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

Chapter 4, the SiC MOSFET ICs 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 SiC MOSFET ICs 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 SiC MOSFET ICs.

Chapter 14 and 15, to describe SiC MOSFET ICs sales channel, distributors, customers, research findings and conclusion.

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