

Global SiC MOSFET Chips (Devices) and Module 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 Chips (Devices) and Module market size was valued at US\$ 872 million in 2024 and is forecast to a readjusted size of USD 4461 million by 2031 with a CAGR of 26.6% during review period.

Silicon carbide MOSFET has the characteristics of low on-off resistance and small switch loss, which can reduce device loss and improve system efficiency. It is more suitable for high frequency circuit.

It is widely used in new energy vehicle motor controller, on-board power supply, solar inverter, charging pile, UPS, PFC power supply and other fields.

This report investigates the market for SiC MOSFET chips and devices and SiC MOSFET modules.

From a global perspective, China is the largest production region, and the main production enterprises are also concentrated in this region, such as Infineon Technologies, ON Semiconductor, STMicroelectronics etc. The total output value of China in 2019 is 222.31 million USD, accounting for 62.14% of the world, followed by Japan. The main manufacturers in this area include ROHM and Mitsubishi Electric, etc.

In the report, there are two mainly types of SiC MOSFET Chips/Devices and Module, including SiC MOSFET Chips/Devices and SiC MOSFET Module. And SiC MOSFET Chips/Devices is the main type for SiC MOSFET Chips/Devices and Module

This report is a detailed and comprehensive analysis for global SiC MOSFET Chips (Devices) and Module 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 Chips (Devices) and Module market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global SiC MOSFET Chips (Devices) and Module 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 SiC MOSFET Chips (Devices) and Module 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 SiC MOSFET Chips (Devices) and Module 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 SiC MOSFET Chips (Devices) and Module
To forecast future growth in each product and end-use market
To forecast future factors affecting the marketplace

This report profiles key players in the global SiC MOSFET Chips (Devices) and Module 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 Wolfspeed, Infineon Technologies, STMicroelectronics, ROHM, Semiconductor Components Industries, LLC, Littelfuse, Microchip, Mitsubishi Electric, GeneSiC Semiconductor Inc., Shenzhen

BASiC Semiconductor LTD, etc.

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

Market Segmentation

SiC MOSFET Chips (Devices) and Module 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

Sic MOSFET Chip and Device

Sic MOSFET Module

Market segment by Application

Car

Industrial

Photovoltaic (pv)

Other

Major players covered

Wolfspeed

Infineon Technologies

STMicroelectronics

ROHM

Semiconductor Components Industries, LLC

Littelfuse

Microchip

Mitsubishi Electric

GeneSiC Semiconductor Inc.

Shenzhen BASiC Semiconductor LTD

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 Chips (Devices) and Module product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the SiC MOSFET Chips (Devices) and Module 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 Chips (Devices) and Module 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 Chips (Devices) and Module.

Chapter 14 and 15, to describe SiC MOSFET Chips (Devices) and Module sales channel, distributors, customers, research findings and conclusion.

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