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Global SiC MOSFET Modules Market Growth 2025-2031

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Abstracts

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The global SiC MOSFET Modules market size is predicted to grow from US$ 903 million in 2025 to US$ 2945 million in 2031; it is expected to grow at a CAGR of 21.8% from 2025 to 2031.

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

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LP Information, Inc. (LPI) ' newest research report, the “SiC MOSFET Modules Industry Forecast” looks at past sales and reviews total world SiC MOSFET Modules sales in 2024, providing a comprehensive analysis by region and market sector of projected SiC MOSFET Modules sales for 2025 through 2031. With SiC MOSFET Modules sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world SiC MOSFET Modules industry.

This Insight Report provides a comprehensive analysis of the global SiC MOSFET Modules landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on SiC MOSFET Modules portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global SiC MOSFET Modules market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for SiC MOSFET Modules and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global SiC MOSFET Modules.

This report presents a comprehensive overview, market shares, and growth opportunities of SiC MOSFET Modules market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

750 V

1200 V

1700 V

3300 V

700 V

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Segmentation by Application:

- Actuation Systems
- Commercial Aviation
- Integrated Vehicle Systems
- Motor Control
- Powertrain & EV Charging
- Unmanned Aerial Vehicle (UAV)
- Others

This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia

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India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Toshiba

Infineon

Semikron

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Onsemi

Microchip Technology

Wolfspeed

ROHM

SanRex

SemiQ, Inc.

Microsemi Corp

Cree

Powerex

Mitsubishi Electric

Key Questions Addressed in this Report

What is the 10-year outlook for the global SiC MOSFET Modules market?

What factors are driving SiC MOSFET Modules market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do SiC MOSFET Modules market opportunities vary by end market size?

How does SiC MOSFET Modules break out by Type, by Application?

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