

Global Silicon Carbide MOSFET Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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Abstracts

Silicon carbide MOSFETs have the characteristics of low on-resistance and small switching losses, which can reduce device losses and improve system efficiency, and are more suitable for high-frequency circuits. It is widely used in the fields of new energy vehicle motor controller, vehicle power supply, solar inverter, charging pile, UPS, PFC power supply and other fields.

According to our (Global Info Research) latest study, the global Silicon Carbide MOSFET market size was valued at USD 435.7 million in 2022 and is forecast to a readjusted size of USD 1251.4 million by 2029 with a CAGR of 16.3% during review period. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

Global key players of SiC MOSFETs include Wolfspeed, Infineon Technologies, STMicroelectronics, ROHM etc. The top three manufacturers hold 52% of the market. Europe is the largest market, has a share about over 74%, followed by APAC and North America, with share 18% and 6%, separately.

This report is a detailed and comprehensive analysis for global Silicon Carbide MOSFET 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 2023, are provided.

Key Features:

Global Silicon Carbide MOSFET market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Silicon Carbide MOSFET market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Silicon Carbide MOSFET market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Silicon Carbide MOSFET market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2018-2023

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 Silicon Carbide MOSFET

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 Silicon Carbide MOSFET market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Infineon, IXYS, Littelfuse, Microchip and ON Semiconductor, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Market Segmentation

Silicon Carbide MOSFET market is split by Type and by Application. For the period 2018-2029, 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

N Channel

Dual N Channel

Quad N Channel

Six N Channel

Market segment by Application

Automobile Industry

Industrial Motor

Smart Grid

Other

Major players covered

Infineon

IXYS

Littelfuse

Microchip

ON Semiconductor

ROHM

STMicroelectronics

Toshiba

UnitedSiC

Wolfspeed

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 Silicon Carbide MOSFET product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Silicon Carbide MOSFET, with price, sales, revenue and global market share of Silicon Carbide MOSFET from 2018 to 2023.

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

Chapter 4, the Silicon Carbide MOSFET breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

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 2017 to 2022. and Silicon Carbide MOSFET market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of Silicon Carbide MOSFET.

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

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