

# Global Silicon Carbide (SiC) Semiconductor Devices Market Research Report 2023

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## Abstracts

Silicon Carbide (SiC) semiconductors are an innovative new option for power electronic designers looking for improved system efficiency, smaller form factor and higher operating temperature in products covering industrial, medical, mil-aerospace, aviation, and communication market segments.

According to QYResearch's new survey, global Silicon Carbide (SiC) Semiconductor Devices market is projected to reach US\$ 1938.8 million in 2029, increasing from US\$ 1309.6 million in 2022, with the CAGR of 5.6% during the period of 2023 to 2029. Influencing issues, such as economy environments, COVID-19 and Russia-Ukraine War, have led to great market fluctuations in the past few years and are considered comprehensively in the whole Silicon Carbide (SiC) Semiconductor Devices market research.

According to our Semiconductor Research Center, in 2022, the global SiC wafer was valued at US\$ 750 million, will grow rapidly in next six years, driven by the strong demand from electric vehicle (EV). Currently the 6 inch SiC substrates are dominating this market, and in next six years, more players will put into production the 8 inch SiC wafers. Currently the key players of SiC are mainly located headquartered United States, Europe, Japan and China, especially in China, more companies are entering the SiC market. It is predicted that, Chinese companies will play key roles in the SiC market in next ten years.

## Report Scope

This report, based on historical analysis (2018-2022) and forecast calculation (2023-2029), aims to help readers to get a comprehensive understanding of global

Silicon Carbide (SiC) Semiconductor Devices market with multiple angles, which provides sufficient supports to readers' strategy and decision making.

### By Company

STMicroelectronics

Cree(Wolfspeed)

ROHM

Infineon Technologies

Microchip Technology Corporation

Toshiba Corporation

ON Semiconductor

### Segment by Type

SIC Diode

SIC Transistor

Thyristors

Others

### Segment by Application

Automotive

Aerospace and Defense

Energy

Industrial & Communication

Consumer Electronics

Others

### Production by Region

North America

Europe

China

Japan

South Korea

### Consumption by Region

North America

U.S.

Canada

Europe

Germany

France

U.K.

Italy

Russia

## Asia-Pacific

China

Japan

South Korea

China Taiwan

Southeast Asia

India

## Latin America, Middle East & Africa

Mexico

Brazil

Turkey

GCC Countries

The Silicon Carbide (SiC) Semiconductor Devices report covers below items:

Chapter 1: Product Basic Information (Definition, type and application)

Chapter 2: Manufacturers' Competition Patterns

Chapter 3: Production Region Distribution and Analysis

Chapter 4: Country Level Sales Analysis

Chapter 5: Product Type Analysis

Chapter 6: Product Application Analysis

Chapter 7: Manufacturers' Outline

Chapter 8: Industry Chain, Market Channel and Customer Analysis

Chapter 9: Market Opportunities and Challenges

Chapter 10: Market Conclusions

Chapter 11: Research Methodology and Data Source

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