

Global Silicon Carbide Discrete Devices Market Growth 2025-2031

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Abstracts

The global Silicon Carbide Discrete Devices market size is predicted to grow from US\$ 4488 million in 2025 to US\$ 13650 million in 2031; it is expected to grow at a CAGR of 20.4% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

This report studies discrete silicon carbide (SiC) power devices, include Silicon Carbide MOSFET Discrettes, Silicon Carbide Diodes and Others (SiC JFETs & FETs).

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.

A silicon carbide (SiC) schottky diode is a semiconductor diode formed by the junction of a semiconductor with a metal. SiC Schottky barrier diodes have a much lower reverse leakage current than their Si counterparts and also a higher forward voltage. They significantly reduce losses and can therefore be used to increase system efficiency and reduce product size.

Currently automotive is the largest application of discrete SiC power devices. driven by demand from China, UAS, EU, and Japan. China is one of the world's largest automotive markets, and its growth potential remains high. In particular, high rates of

growth for electric-powered vehicles make China one of the largest markets for electromobility.

Global new energy vehicles continue to grow rapidly. In 2023, the total sales of new energy vehicles in the world reached 14.65 million, a simultaneous increase of 35.4%. Among them, China's new energy vehicle sales reached 9.495 million, accounting for 64.8% of global sales. The production and sales of new energy vehicles have ranked first in the world for eight consecutive years. In 2023, the sales of new energy vehicles in the United States and Europe were 2.94 million and 1.46 million respectively, with year-on-year growth rates of 18.3% and 48.0% respectively.

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

This Insight Report provides a comprehensive analysis of the global Silicon Carbide Discrete Devices 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 Silicon Carbide Discrete Devices portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Silicon Carbide Discrete Devices market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Silicon Carbide Discrete Devices 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 Silicon Carbide Discrete Devices.

This report presents a comprehensive overview, market shares, and growth opportunities of Silicon Carbide Discrete Devices market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

SiC MOSFET

SiC Diode

SiC Module

Segmentation by Application:

Automotive & EV/HEV

EV Charging

Industrial Motor/Drive

PV, Energy Storage, Wind Power

UPS, Data Center & Server

Rail Transport

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

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.

STMicroelectronics

Infineon

Wolfspeed

Rohm

onsemi

BYD Semiconductor

Microchip (Microsemi)

Mitsubishi Electric (Vincotech)

Semikron Danfoss

Fuji Electric

Navitas (GeneSiC)

Toshiba

Qorvo (UnitedSiC)

San'an Optoelectronics

Littelfuse (IXYS)

CETC 55

WeEn Semiconductors

BASiC Semiconductor

SemiQ

Diodes Incorporated

SanRex

Alpha & Omega Semiconductor

Bosch

KEC Corporation

PANJIT Group

Nexperia

Vishay Intertechnology

Zhuzhou CRRRC Times Electric

China Resources Microelectronics Limited

StarPower

Yangzhou Yangjie Electronic Technology

Guangdong AccoPower Semiconductor

Changzhou Galaxy Century Microelectronics

Hangzhou Silan Microelectronics

Cisoid

SK powertech

InventChip Technology

Hebei Sinopack Electronic Technology

Oriental Semiconductor

Jilin Sino-Microelectronics

PN Junction Semiconductor (Hangzhou)

United Nova Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Silicon Carbide Discrete Devices market?

What factors are driving Silicon Carbide Discrete Devices market growth, globally and by region?

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

How do Silicon Carbide Discrete Devices market opportunities vary by end market size?

How does Silicon Carbide Discrete Devices break out by Type, by Application?

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