

Global Silicon Carbide Epitaxial Wafer Market Growth 2026-2032

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Abstracts

The global Silicon Carbide Epitaxial Wafer market size is predicted to grow from US\$ 1277 million in 2025 to US\$ 11390 million in 2032; it is expected to grow at a CAGR of 39.0% from 2026 to 2032.

Silicon Carbide Epitaxial Wafer is a semiconductor base material made by growing one or multiple high-quality single-crystal SiC layers on a single-crystal SiC substrate. Its core specifications include epitaxial thickness, doping concentration, thickness uniformity, doping uniformity, surface defect level, dislocation density, and backside cleanliness. It sits between SiC substrate manufacturing and device fabrication in the value chain and is a key material for SiC SBD/JBS diodes, SiC MOSFETs, JFETs, BJTs, PIN diodes, and other power devices, directly determining breakdown voltage, on-resistance, leakage current, switching loss, yield, and long-term reliability. In 2025, the average global price of silicon carbide epitaxial wafers was approximately \$1,100 per wafer.

The market is mainly driven by electric vehicles, charging infrastructure, photovoltaic inverters, energy storage systems, rail transit, smart grids, industrial power supplies, industrial drives, and high-efficiency data centers. As power devices migrate from silicon-based IGBTs and silicon diodes to SiC MOSFETs and SiC diodes, downstream customers increasingly require higher voltage capability, lower power loss, higher switching frequency, smaller system size, and stable operation under high-temperature conditions. This pushes SiC epitaxial wafers toward better uniformity, lower defect density, larger diameters, and higher-voltage platforms. At the same time, 6-inch wafers remain the mainstream industrial format, while 8-inch wafers are entering accelerated mass-production adoption, with both overseas and Chinese producers expanding epitaxy capacity and improving thick-epitaxy and low-defect process control.

Global key players of Silicon Carbide Epitaxial Wafer include Wolfspeed, Epiworld International, Resonac, ROHM (SiCrystal), TYSiC, etc. The top five players hold a share over 52 %. China is dominating the global Silicon Carbide Epitaxial Wafer market, has a share nearly 50%. In terms of product type, 150mm Silicon Carbide Epitaxial Wafer is the largest segment, occupied for a share of 60%. In terms of application, 600-1200V SiC Devices has a share about 63 percent.

LP Information, Inc. (LPI) ' newest research report, the "Silicon Carbide Epitaxial Wafer Industry Forecast" looks at past sales and reviews total world Silicon Carbide Epitaxial Wafer sales in 2025, providing a comprehensive analysis by region and market sector of projected Silicon Carbide Epitaxial Wafer sales for 2026 through 2032. With Silicon Carbide Epitaxial Wafer sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Silicon Carbide Epitaxial Wafer industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Silicon Carbide Epitaxial Wafer and breaks down the forecast by Type, by Voltage Platform, 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 Epitaxial Wafer.

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

Segmentation by Type:

100mm

150mm

200mm

Segmentation by Conductivity Type:

N-Type SiC Epitaxial Wafer

P-Type SiC Epitaxial Wafer

Semi-Insulating Substrate Based Epitaxial Wafer

Segmentation by End Use:

Electric Vehicle and Charging Infrastructure

Photovoltaic and Energy Storage

Smart Grid

Industrial Power Supply

Data Center and AI Power

Others

Segmentation by Voltage Platform:

600-1200V SiC Devices

1200-3300V SiC Devices

Above 3300V SiC Devices

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.

Wolfspeed

Epiworld International

Resonac

ROHM (SiCrystal)

TYSiC

Coherent (II-VI)

SK Siltron

STMicroelectronics

Best Compound Semiconductor

SICO Semiconductor Technology

CEC Compound Semiconductor

Hangzhou Haiqian Semiconductor

Hebei Poshing

Key Questions Addressed in this Report

What is the 10-year outlook for the global Silicon Carbide Epitaxial Wafer market?

What factors are driving Silicon Carbide Epitaxial Wafer market growth, globally and by region?

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

How do Silicon Carbide Epitaxial Wafer market opportunities vary by end market size?

How does Silicon Carbide Epitaxial Wafer break out by Type, by Voltage Platform?

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