

# Global Silicon Carbide MOSFET Chips Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Silicon Carbide MOSFET Chips market size is expected to reach \$ 21376 million by 2032, rising at a market growth of 26.2% CAGR during the forecast period (2026-2032).

Silicon Carbide MOSFET Chips refer to unpackaged SiC MOSFET dies (bare die / chip) that are diced from a SiC wafer and contain the complete vertical power MOSFET structure (cell array, gate oxide, JFET region, drift layer, etc.). Compared with discrete packaged parts, SiC MOSFET chips are supplied to customers for direct die-attach and custom package/module integration, enabling lower parasitics and higher power density.

The upstream chain starts from SiC substrates (most commonly 4H-SiC for power electronics), followed by epitaxial growth to form the drift layer, then key wafer processes such as ion implantation for doped regions, very high-temperature activation anneal (often in the ~1600-1700 °C range), gate oxidation / interface engineering, and front-/back-side metallization.

Downstream, SiC MOSFET chips flow into OSAT/packaging and module assembly (e.g., sintered die-attach, low-inductance interconnects), and are then integrated into power modules, inverters, DC/DC converters, onboard chargers, and high-efficiency power conversion systems.

In 2025, global sales of Silicon Carbide MOSFET Chips reached approximately 334 million Pcs, with an average global market price of around US\$ 12/Pcs. Production capacity varies significantly among manufacturers, with gross profit margins ranging from approximately 25% to 50%.

Charging infrastructure is shifting from functional deployment to a phase where efficiency, power density, and long-term reliability determine the winner. In high-power charging, semiconductor losses translate directly into thermal design complexity, enclosure size, and lifecycle cost. SiC MOSFET chips enable faster switching and

higher operating temperature capability, which supports higher switching frequencies, smaller magnetics and passives, and simpler cooling?especially valuable in compact, modular charger power stages.

Competitiveness increasingly depends on more than device specs. Substrate and epitaxy quality, device architecture, wafer-fab yield learning, and advanced packaging/thermal interfaces together define real-world performance and cost. As industry capacity expands and processes mature, pricing pressure rises, but customer requirements for consistency, ruggedness, and qualification remain stringent. Leading suppliers use vertical integration, packaging innovation, and long-term supply frameworks to stabilize cost and delivery, while new entrants must prove yield stability and quality systems to earn adoption.

Looking forward, higher-power charger platforms and tighter efficiency/safety standards will keep pulling SiC into the mainstream. At the same time, adjacent demand from grid-side energy storage, renewable integration, and power conversion in data-center infrastructure reinforces adoption, pushing SiC MOSFET chips from isolated replacements toward broader system-level optimization.

This report studies the global Silicon Carbide MOSFET Chips production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Silicon Carbide MOSFET Chips and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Silicon Carbide MOSFET Chips that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Silicon Carbide MOSFET Chips total production and demand, 2021-2032, (K Pcs)

Global Silicon Carbide MOSFET Chips total production value, 2021-2032, (USD Million)

Global Silicon Carbide MOSFET Chips production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global Silicon Carbide MOSFET Chips consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: Silicon Carbide MOSFET Chips domestic production, consumption, key domestic manufacturers and share

Global Silicon Carbide MOSFET Chips production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global Silicon Carbide MOSFET Chips production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global Silicon Carbide MOSFET Chips production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Silicon Carbide MOSFET Chips 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, Wolfspeed, ROHM, Onsemi, Bosch, STMicroelectronics, Mitsubishi Electric, Toshiba, Microchip, Navitas Semiconductor, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Silicon Carbide MOSFET Chips market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pcs) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Silicon Carbide MOSFET Chips Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Silicon Carbide MOSFET Chips Market, Segmentation by Type:

650V Class

750V Class

1200V Class

1700V Class

Other

Global Silicon Carbide MOSFET Chips Market, Segmentation by Gate Architecture:

Planar-gate

Trench-gate

Other

Global Silicon Carbide MOSFET Chips Market, Segmentation by Channel:

N-Channel

P-Channel

Global Silicon Carbide MOSFET Chips Market, Segmentation by Application:

Automobile

Photovoltaic

Other

**Companies Profiled:**

Infineon

Wolfspeed

ROHM

Onsemi

Bosch

STMicroelectronics

Mitsubishi Electric

Toshiba

Microchip

Navitas Semiconductor

Shenzhen BASiC Semiconductor

**Key Questions Answered:**

1. How big is the global Silicon Carbide MOSFET Chips market?
2. What is the demand of the global Silicon Carbide MOSFET Chips market?
3. What is the year over year growth of the global Silicon Carbide MOSFET Chips market?
4. What is the production and production value of the global Silicon Carbide MOSFET Chips market?
5. Who are the key producers in the global Silicon Carbide MOSFET Chips market?
6. What are the growth factors driving the market demand?

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