

Global EV SGT MOSFET Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global EV SGT MOSFET market size is expected to reach \$ 473 million by 2032, rising at a market growth of 7.8% CAGR during the forecast period (2026-2032).

EV SGT MOSFET is a power semiconductor device based on shielded gate trench structure, specifically engineered for electric vehicle applications, offering low on-resistance, reduced switching loss, and enhanced reliability under high-frequency and high-voltage operating conditions. The capacity utilization rate in 2025 was 70%, and the industry's average gross margin was about 45%. In 2025, production was 245 million units and the average price was USD 1.1 per unit. Upstream, key inputs include silicon wafers and photoresists, with representative suppliers such as Shin-Etsu Chemical, SUMCO, GlobalWafers, JSR, Tokyo Ohka Kogyo, Shanghai Silicon Industry Group, and Jingrui Electronic Materials ensuring material consistency and process stability. The midstream segment involves device structure design, trench etching, shielded gate formation, epitaxial growth, wafer fabrication, electrical testing, and automotive-grade qualification, which determine switching efficiency, conduction performance, and long-term reliability. Downstream applications are concentrated in electric vehicles, with representative customers including Tesla, Volkswagen, Toyota, Ford, General Motors, BYD, SAIC Motor, and Geely Auto, where high efficiency, thermal stability, and reliability are critical to system performance.

EV SGT MOSFETs play a critical role in electric vehicle power electronics, functioning as high-efficiency switches in traction inverters, onboard chargers, and DC-DC converters. Their low on-resistance and superior thermal performance enable vehicles to handle higher currents and voltage stresses while maintaining energy efficiency. The increasing use of compact inverter designs and high-voltage architectures emphasizes the need for MOSFETs capable of reliable high-frequency operation. Manufacturers are

focusing on optimizing device design and performance to meet stringent automotive standards, as efficiency, switching speed, and thermal stability become key differentiators. Demand is further influenced by the growing importance of lightweight and compact power electronics in electric vehicles, where high-performance MOSFETs enable both energy savings and system reliability. Overall, market dynamics highlight the selective adoption of advanced MOSFETs that combine efficiency, robustness, and integration potential for modern electrified powertrains.

This report studies the global EV SGT MOSFET production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for EV SGT MOSFET 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 EV SGT MOSFET that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global EV SGT MOSFET total production and demand, 2021-2032, (Million Units)

Global EV SGT MOSFET total production value, 2021-2032, (USD Million)

Global EV SGT MOSFET production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global EV SGT MOSFET consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: EV SGT MOSFET domestic production, consumption, key domestic manufacturers and share

Global EV SGT MOSFET production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global EV SGT MOSFET production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global EV SGT MOSFET production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global EV SGT 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, ON Semiconductor, China Resources Microelectronics Limited, AOS, Wuxi NCE Power Co.,Ltd., JieJie Microelectronics, Silan Microelectronics, Yangjie Electronic Technology, Hunteck, Oriental 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 EV SGT MOSFET market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) 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 EV SGT MOSFET Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global EV SGT MOSFET Market, Segmentation by Type:

?100V

100V-400V

?400V

Global EV SGT MOSFET Market, Segmentation by Technology:

Conventional Trench MOSFET

Shielded Gate Trench MOSFET

Global EV SGT MOSFET Market, Segmentation by Package:

SOIC Package

TSSOP Package

Others

Global EV SGT MOSFET Market, Segmentation by Application:

Passenger Cars

Commercial Vehicle

Companies Profiled:

Infineon

ON Semiconductor

China Resources Microelectronics Limited

AOS

Wuxi NCE Power Co.,Ltd.

JieJie Microelectronics

Silan Microelectronics

Yangjie Electronic Technology

Hunteck

Oriental Semiconductor

Key Questions Answered:

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

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