

Global EV SGT MOSFET Market Growth 2026-2032

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Abstracts

The global EV SGT MOSFET market size is predicted to grow from US\$ 264 million in 2025 to US\$ 462 million in 2032; it is expected to grow at a CAGR of 8.3% from 2026 to 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.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for EV SGT MOSFET 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 EV SGT MOSFET.

This report presents a comprehensive overview, market shares, and growth opportunities of EV SGT MOSFET market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

?100V

100V-400V

?400V

Segmentation by Technology:

Conventional Trench MOSFET

Shielded Gate Trench MOSFET

Segmentation by Package:

SOIC Package

TSSOP Package

Others

Segmentation by Application:

Passenger Cars

Commercial Vehicle

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.

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 Addressed in this Report

What is the 10-year outlook for the global EV SGT MOSFET market?

What factors are driving EV SGT MOSFET market growth, globally and by region?

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

How do EV SGT MOSFET market opportunities vary by end market size?

How does EV SGT MOSFET break out by Type, by Application?

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