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Global Automotive Grade SGT MOSFETs Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Automotive Grade SGT MOSFETs market size was valued at US$ million in 2025 and is forecast to a readjusted size of US$ million by 2032 with a CAGR of %during review period.

MOSFET can be roughly divided into the following categories: planar MOSFET; Trench (trench type) MOSFET, mainly used in low-voltage areas; SGT (Shielded Gate Transistor, Shielded Gate Trench) MOSFET, mainly used in medium-voltage and low-voltage areas; SJ- (Super Junction) MOSFET, mainly used in high-voltage applications. With the rise of cell phone fast charging, electric vehicles, brushless motors and lithium batteries, the demand for medium-voltage MOSFETs is increasing, medium-voltage power devices began to flourish, because of its huge market share, many domestic and foreign manufacturers in the corresponding new technology research and development continue to increase the investment.SGT MOSFETs, as a switching device, are widely used in new energy EV BMS, inverter power systems, motor drive systems and other power management systems, and are one of its most important applications. As switching devices, SGT MOSFETs are widely used in BMS, inverter power system, motor drive system and other power management systems of new energy electric vehicles, and are the core power control components.

Automotive Grade is commonly used to describe electronic devices that meet automotive industry standards and specific reliability requirements. The Automotive Grade SGT MOS structure has a charge-coupling effect that introduces horizontal depletion on top of the vertical depletion of the PN junction in conventional trench MOSFET devices, changing the device electric field from a triangular distribution to an approximate rectangular distribution, which allows the device to achieve a higher

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breakdown voltage with the same doping concentration of epitaxial material specifications. The deeper trench depth allows more silicon volume to be utilized to absorb EAS energy, so SGTs can do better in avalanche and withstand avalanche breakdown and inrush current better.

Automotive grade SGT MOS have the following advantages: low on-resistance, high switching efficiency, high reliability and high power density. In automotive applications such as switching power supplies, motor control, power battery systems, etc., automotive grade SGT MOS with advanced packaging is very helpful to improve system efficiency and power density.

This report is a detailed and comprehensive analysis for global Automotive Grade SGT MOSFETs market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Automotive Grade SGT MOSFETs market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Automotive Grade SGT MOSFETs market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Automotive Grade SGT MOSFETs market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Automotive Grade SGT MOSFETs market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2021-2026

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The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Automotive Grade SGT MOSFETs

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Automotive Grade SGT MOSFETs market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Infineon Technologies, ON Semiconductor, Jiangsujiejie Microelectronics Co.,Ltd., Oriental Semiconductor, Yangzhou Yangjie Electronic Technology Co.,Ltd., Jiangsu Changjing Electronics Technology Co., Ltd., NCE Power, JSAB Technologies Limited, China Resources Microelectronics Limited, Hangzhou Silan Microelectronics Co., Ltd., etc.

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

Market Segmentation

Automotive Grade SGT MOSFETs market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

30V

40V

60V

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80V

100V

120V

150V

Others

Market segment by Application

Assisted Driving Systems (ADAS)

Infotainment Systems

Inverter

Body Control Module (BCM)

Motor Drive Systems

Power Management Systems

On-board Chargers

Charging Piles

Others

Major players covered

Infineon Technologies

ON Semiconductor

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Jiangsujiejie Microelectronics Co.,Ltd.

Oriental Semiconductor

Yangzhou Yangjie Electronic Technology Co.,Ltd.

Jiangsu Changjing Electronics Technology Co., Ltd.

NCE Power

JSAB Technologies Limited

China Resources Microelectronics Limited

Hangzhou Silan Microelectronics Co., Ltd.

Hunteck Semiconductor

Wayon Electronics Co.,Ltd.

Shenzhen Minde Electronics Technology Ltd.

Alpha and Omega Semiconductor.

Mosdesign Semiconductor Corp.

GTA Semiconductor Co., Ltd.

ASDsemi

ADAMANTsemi

WINSOK Semiconductor

ANHI Semiconductor Group

Lonten Semiconductor Co., Ltd.

AE-SEMI Technology

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Reasunos Semiconductor Technology Co.,LTD

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Automotive Grade SGT MOSFETs product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive Grade SGT MOSFETs, with price, sales quantity, revenue, and global market share of Automotive Grade SGT MOSFETs from 2021 to 2026.

Chapter 3, the Automotive Grade SGT MOSFETs competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive Grade SGT MOSFETs breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Automotive Grade SGT MOSFETs market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Automotive Grade SGT MOSFETs.

Chapter 14 and 15, to describe Automotive Grade SGT MOSFETs sales channel, distributors, customers, research findings and conclusion.

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