

Global Medium-voltage SGT MOSFET 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 Medium-voltage SGT MOSFET market size was valued at US\$ 2324 million in 2025 and is forecast to a readjusted size of US\$ 4068 million by 2032 with a CAGR of 8.3% during review period.

Medium-voltage SGT MOSFET is a power semiconductor designed for medium-voltage applications, combining a shielded gate trench structure with enhanced voltage handling, fast switching capability, and low conduction losses. Its architecture provides improved thermal stability and reliability under demanding operating conditions, making it suitable for automotive powertrains, industrial drives, and energy storage systems. The capacity utilization rate in 2025 was 80%, and the industry's average gross margin was about 30%. In 2025, production was 2.51 billion units and the average price was USD 0.9 per unit. Upstream, key inputs include silicon wafers and photoresist materials, with representative suppliers such as Shin-Etsu Chemical, SUMCO, GlobalWafers, and LG Siltron. The midstream segment encompasses device design, wafer fabrication, trench etching, doping, packaging, and testing, determining switching performance, voltage tolerance, and operational reliability. Downstream applications target automotive, industrial automation, and energy storage, with representative customers including Tesla, BYD, Siemens, Schneider Electric, and CATL.

The market for medium-voltage SGT MOSFETs is shaped by increasing demand for efficient power conversion in automotive, industrial, and energy storage applications. As systems adopt higher voltage architectures and compact inverter designs, components with low conduction loss, high switching speed, and thermal reliability are prioritized. Adoption is influenced by energy efficiency standards, vehicle electrification trends, and industrial automation upgrades. Suppliers that can consistently deliver high-quality

devices with predictable performance benefit from long-term design-in opportunities. The focus on system-level efficiency and reliability suggests that medium-voltage SGT MOSFETs will continue to be critical components in evolving electrification and automation solutions.

This report is a detailed and comprehensive analysis for global Medium-voltage SGT MOSFET 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 Medium-voltage SGT MOSFET market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Medium-voltage SGT MOSFET market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Medium-voltage SGT MOSFET market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Medium-voltage SGT MOSFET market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2021-2026

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 Medium-voltage SGT MOSFET

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 Medium-voltage SGT MOSFET 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, 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.

Market Segmentation

Medium-voltage SGT MOSFET 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

?100V

100V-200V

Market segment by Structure

Vertical MOSFET

Double Diffused MOS

Others

Market segment by Package

SOIC Package

TSSOP Package

Others

Market segment by Application

Automotive Electronics

Industrial Automation

Energy Storage

Others

Major players covered

Infineon

ON Semiconductor

China Resources Microelectronics Limited

AOS

Wuxi NCE Power Co.,Ltd.

JieJie Microelectronics

Silan Microelectronics

Yangjie Electronic Technology

Hunteck

Oriental Semiconductor

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 Medium-voltage SGT MOSFET product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Medium-voltage SGT MOSFET, with price, sales quantity, revenue, and global market share of Medium-voltage SGT MOSFET from 2021 to 2026.

Chapter 3, the Medium-voltage SGT MOSFET competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Medium-voltage SGT MOSFET 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.

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 Medium-voltage SGT MOSFET 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 Medium-voltage SGT MOSFET.

Chapter 14 and 15, to describe Medium-voltage SGT MOSFET sales channel, distributors, customers, research findings and conclusion.

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