

# Global Medium-voltage SGT MOSFET Market Growth 2026-2032

<https://marketpublishers.com/r/GFC4705B09F8EN.html>

Date: May 2026

Pages: 95

Price: US\$ 3,660.00 (Single User License)

ID: GFC4705B09F8EN

## Abstracts

The global Medium-voltage SGT MOSFET market size is predicted to grow from US\$ 2210 million in 2025 to US\$ 3979 million in 2032; it is expected to grow at a CAGR of 8.8% from 2026 to 2032.

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.

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

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

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

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

Segmentation by Type:

?100V

100V-200V

Segmentation by Structure:

Vertical MOSFET

Double Diffused MOS

Others

Segmentation by Package:

SOIC Package

TSSOP Package

Others

Segmentation by Application:

Automotive Electronics

Industrial Automation

Energy Storage

Others

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 Medium-voltage SGT MOSFET market?

What factors are driving Medium-voltage SGT MOSFET market growth, globally and by region?

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

How do Medium-voltage SGT MOSFET market opportunities vary by end market size?

How does Medium-voltage SGT MOSFET break out by Type, by Application?

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