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Global Vehicle Grade MOSFET Chip Market Growth 2026-2032

https://marketpublishers.com/r/GFEF5158A340EN.html
Date: April 2026
Pages: 152
Price: US$ 3,660.00 (Single User License)
ID: GFEF5158A340EN

Abstracts

The global Vehicle Grade MOSFET Chip market size is predicted to grow from US$ 3281 million in 2025 to US$ 5002 million in 2032; it is expected to grow at a CAGR of 6.3% from 2026 to 2032.

The switching and driving characteristics of MOSFET have epoch-making significance in the historical process of the entire electronic design field.

Among them, the automotive electronics field has very strict requirements for MOSFET:

1. When transmitting digital signals, the accuracy should be high;

2. Anti-interference ability under switching characteristics and driving characteristics shall be strong;

3. It shall not produce excessive noise and electromagnetic interference under normal operation.

Automotive is a key driver of this industry. According to data from the World Automobile Organization (OICA), global automobile production and sales in 2017 reached their peak in the past 10 years, at 97.3 million and 95.89 million respectively. In 2018, the global economic expansion ended, and the global auto market declined as a whole. In 2022, there will wear units 81.6 million vehicles in the world. At present, more than 90% of the world's automobiles are concentrated in the three continents of Asia, Europe and North America, of which Asia automobile production accounts for 56% of the world, Europe accounts for 20%, and North America accounts for 16%. The world major automobile producing countries include China, the United States, Japan, South Korea,

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Germany, India, Mexico, and other countries; among them, China is the largest automobile producing country in the world, accounting for about 32%. Japan is the world's largest car exporter, exporting more than 3.5 million vehicles in 2022.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Vehicle Grade MOSFET Chip 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 Vehicle Grade MOSFET Chip.

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

Segmentation by Type:

Through-hole Type

Surface Mount Type

Others

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Segmentation by Application:

- Blade Electric Vehicles
- Hybrid Electric Vehicles

This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India
  - Australia
- Europe
  - Germany

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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 Technologies

ON Semiconductor

Toshiba

STMicroelectronics

Renesas Electronics

Fuji Electric

Vishay

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Mitsubishi Electric

Semikron

Nexperia

DENSO

Valeo

Delphi Auto Parts

ROHM Semiconductor

Sanken

Bosch

China Resources Microelectronics

Starpower

CRRC Corporation Limited

BYD

Silan Microelectronics

Key Questions Addressed in this Report

What is the 10-year outlook for the global Vehicle Grade MOSFET Chip market?

What factors are driving Vehicle Grade MOSFET Chip market growth, globally and by region?

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

How do Vehicle Grade MOSFET Chip market opportunities vary by end market

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size?

How does Vehicle Grade MOSFET Chip break out by Type, by Application?

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