

Global Planar 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 Planar MOSFET market size was valued at US\$ 6379 million in 2025 and is forecast to a readjusted size of US\$ 8870 million by 2032 with a CAGR of 4.7% during review period.

Planar MOSFET (Metal-Oxide-Semiconductor Field-Effect Transistor) is a type of power semiconductor device manufactured on a planar structure where the gate electrode is placed on a flat silicon layer, and current flows through a horizontal channel. The upstream segment includes raw material suppliers of silicon wafers, epitaxial wafers, photoresists, etchants, doping gases, lead frames, copper wires, and epoxy molding compounds. The midstream segment encompasses wafer fabrication (diffusion, photolithography, etching, ion implantation, metallization), chip probing, dicing, assembly, and testing processes performed by integrated device manufacturers (IDMs) and foundries. The downstream segment covers distribution channels including electronic component distributors, direct OEM sales, and e-commerce platforms, serving end-users in automotive electronics (low-voltage auxiliary systems), consumer electronics (chargers, adapters), industrial power supplies, LED drivers, and battery protection circuits. The global average selling price for Planar MOSFETs is approximately US\$0.31 per unit, with annual sales volume reaching 20,000m units in 2025. The industry maintains gross margins between 22% and 35%, reflecting the mature, high-volume nature of planar technology.

The planar MOSFET market is experiencing steady growth driven by the proliferation of consumer electronics, rapid expansion of electric vehicle production, and increasing renewable energy installations. The technology remains the workhorse of power conversion across diverse applications, from phone chargers and AC adapters to EV chargers and solar inverters .

Consumer Electronics as Primary Growth Driver

Planar MOSFETs are widely used in AC adapters, switching power supplies, and lighting drivers, where low on-resistance and fast switching are critical for energy efficiency. The rapid proliferation of smartphones, laptops, wearables, and smart home devices continues to drive demand for high-efficiency, low-power planar MOSFETs. Approximately 70% of the market is concentrated in consumer electronics and AC adapter applications .

Automotive Electrification as Key Demand Catalyst

The expanding electric vehicle production requires robust power management components, driving widespread adoption of planar MOSFET solutions. Planar MOSFETs are used in battery management systems, on-board chargers, DC-DC converters, and motor drives. Government incentives for electric vehicles and the global push toward decarbonization further amplify demand in the automotive sector. The automotive application segment is projected to be the fastest-growing segment through 2031 .

Telecommunications Infrastructure Expansion

The ongoing global rollout of 5G base stations creates new opportunities for planar MOSFETs in power amplification and RF applications. The demand for components that can support high-frequency and high-power applications becomes critical as countries worldwide race to deploy 5G networks. LDMOS transistors, a specialized type of planar MOSFET, remain the most widely used RF power amplifiers in mobile networks, enabling the majority of the world's cellular voice and data traffic .

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

Global Planar 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 Planar 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 Planar 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 Planar 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 Planar 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 Technologies AG, ON Semiconductor Corporation, STMicroelectronics N.V., Vishay Intertechnology, Inc., Toshiba Corporation, ROHM Semiconductor, Nexperia B.V., Diodes Incorporated, Microchip Technology Inc., Alpha and Omega Semiconductor (AOS), etc.

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

Market Segmentation

Planar 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

Less than 100V

100-500V

500-1000V

1000-1500V

More than 1500V

Market segment by Channel Type

N-Channel Planar MOSFET

P-Channel Planar MOSFET

Market segment by RDS(on) Range

Low RDS(on) (
Medium RDS(on) (100 m Ω - 1 Ω)

High RDS(on) (> 1 Ω)

Market segment by Application

Industrial Control

Automotive

Consumer Electronics

Communication

Others

Major players covered

Infineon Technologies AG

ON Semiconductor Corporation

STMicroelectronics N.V.

Vishay Intertechnology, Inc.

Toshiba Corporation

ROHM Semiconductor

Nexperia B.V.

Diodes Incorporated

Microchip Technology Inc.

Alpha and Omega Semiconductor (AOS)

Renesas Electronics Corporation

Shindengen Electric Manufacturing Co., Ltd.

Suzhou Convert Semiconductor Co., Ltd.

Wingtech Technology Co., Ltd.

China Resources Microelectronics Ltd.

Hangzhou Silan Microelectronics Co., Ltd.

Yangzhou Yangjie Electronic Technology Co., Ltd.

Jilin Sino-Microelectronics Co., Ltd.

VBsemi

Goford Semiconductor

Leadpower Semiconductor

TRUESEMI

Lonten Semiconductor

Jinan Jingheng Electronics Co., Ltd.

Kwansemi 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 Planar MOSFET product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Planar 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 Planar 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 Planar MOSFET.

Chapter 14 and 15, to describe Planar MOSFET sales channel, distributors, customers, research findings and conclusion.

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