

Global Planar MOSFET Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Planar MOSFET market size is expected to reach \$ 8870 million by 2032, rising at a market growth of 4.7% CAGR during the forecast period (2026-2032).

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 studies the global Planar MOSFET production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Planar MOSFET and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Planar MOSFET that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Planar MOSFET total production and demand, 2021-2032, (Million Units)

Global Planar MOSFET total production value, 2021-2032, (USD Million)

Global Planar MOSFET production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Planar MOSFET consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Planar MOSFET domestic production, consumption, key domestic manufacturers and share

Global Planar MOSFET production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Planar MOSFET production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Planar MOSFET production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Planar MOSFET market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Planar MOSFET market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Planar MOSFET Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Planar MOSFET Market, Segmentation by Type:

Less than 100V

100-500V

500-1000V

1000-1500V

More than 1500V

Global Planar MOSFET Market, Segmentation by Channel Type:

N-Channel Planar MOSFET

P-Channel Planar MOSFET

Global Planar MOSFET Market, Segmentation by RDS(on) Range:

Low RDS(on) (

Medium RDS(on) (100 m Ω - 1 Ω)

High RDS(on) (> 1 Ω)

Global Planar MOSFET Market, Segmentation by Application:

Industrial Control

Automotive

Consumer Electronics

Communication

Others

Companies Profiled:

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

Key Questions Answered:

1. How big is the global Planar MOSFET market?
2. What is the demand of the global Planar MOSFET market?
3. What is the year over year growth of the global Planar MOSFET market?
4. What is the production and production value of the global Planar MOSFET market?
5. Who are the key producers in the global Planar MOSFET market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Planar MOSFET Introduction
- 1.2 World Planar MOSFET Supply & Forecast
 - 1.2.1 World Planar MOSFET Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Planar MOSFET Production (2021-2032)
 - 1.2.3 World Planar MOSFET Pricing Trends (2021-2032)
- 1.3 World Planar MOSFET Production by Region (Based on Production Site)
 - 1.3.1 World Planar MOSFET Production Value by Region (2021-2032)
 - 1.3.2 World Planar MOSFET Production by Region (2021-2032)
 - 1.3.3 World Planar MOSFET Average Price by Region (2021-2032)
 - 1.3.4 North America Planar MOSFET Production (2021-2032)
 - 1.3.5 Europe Planar MOSFET Production (2021-2032)
 - 1.3.6 China Planar MOSFET Production (2021-2032)
 - 1.3.7 Japan Planar MOSFET Production (2021-2032)
 - 1.3.8 South Korea Planar MOSFET Production (2021-2032)
 - 1.3.9 Taiwan Planar MOSFET Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Planar MOSFET Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Planar MOSFET Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Planar MOSFET Demand (2021-2032)
- 2.2 World Planar MOSFET Consumption by Region
 - 2.2.1 World Planar MOSFET Consumption by Region (2021-2026)
 - 2.2.2 World Planar MOSFET Consumption Forecast by Region (2027-2032)
- 2.3 United States Planar MOSFET Consumption (2021-2032)
- 2.4 China Planar MOSFET Consumption (2021-2032)
- 2.5 Europe Planar MOSFET Consumption (2021-2032)
- 2.6 Japan Planar MOSFET Consumption (2021-2032)
- 2.7 South Korea Planar MOSFET Consumption (2021-2032)
- 2.8 ASEAN Planar MOSFET Consumption (2021-2032)
- 2.9 India Planar MOSFET Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Planar MOSFET Production Value by Manufacturer (2021-2026)
- 3.2 World Planar MOSFET Production by Manufacturer (2021-2026)
- 3.3 World Planar MOSFET Average Price by Manufacturer (2021-2026)
- 3.4 Planar MOSFET Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Planar MOSFET Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Planar MOSFET in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Planar MOSFET in 2025
- 3.6 Planar MOSFET Market: Overall Company Footprint Analysis
 - 3.6.1 Planar MOSFET Market: Region Footprint
 - 3.6.2 Planar MOSFET Market: Company Product Type Footprint
 - 3.6.3 Planar MOSFET Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Planar MOSFET Production Value Comparison
 - 4.1.1 United States VS China: Planar MOSFET Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Planar MOSFET Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Planar MOSFET Production Comparison
 - 4.2.1 United States VS China: Planar MOSFET Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Planar MOSFET Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Planar MOSFET Consumption Comparison
 - 4.3.1 United States VS China: Planar MOSFET Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Planar MOSFET Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Planar MOSFET Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Planar MOSFET Manufacturers, Headquarters and

Production Site (States, Country)

4.4.2 United States Based Manufacturers Planar MOSFET Production Value (2021-2026)

4.4.3 United States Based Manufacturers Planar MOSFET Production (2021-2026)

4.5 China Based Planar MOSFET Manufacturers and Market Share

4.5.1 China Based Planar MOSFET Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Planar MOSFET Production Value (2021-2026)

4.5.3 China Based Manufacturers Planar MOSFET Production (2021-2026)

4.6 Rest of World Based Planar MOSFET Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Planar MOSFET Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Planar MOSFET Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Planar MOSFET Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Planar MOSFET Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Less than 100V

5.2.2 100-500V

5.2.3 500-1000V

5.2.4 1000-1500V

5.2.5 More than 1500V

5.3 Market Segment by Type

5.3.1 World Planar MOSFET Production by Type (2021-2032)

5.3.2 World Planar MOSFET Production Value by Type (2021-2032)

5.3.3 World Planar MOSFET Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY CHANNEL TYPE

6.1 World Planar MOSFET Market Size Overview by Channel Type: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Channel Type

6.2.1 N-Channel Planar MOSFET

6.2.2 P-Channel Planar MOSFET

6.3 Market Segment by Channel Type

6.3.1 World Planar MOSFET Production by Channel Type (2021-2032)

6.3.2 World Planar MOSFET Production Value by Channel Type (2021-2032)

6.3.3 World Planar MOSFET Average Price by Channel Type (2021-2032)

7 MARKET ANALYSIS BY RDS(ON) RANGE

7.1 World Planar MOSFET Market Size Overview by RDS(on) Range: 2021 VS 2025 VS 2032

7.2 Segment Introduction by RDS(on) Range

7.2.1 Low RDS(on) (7.2.2 Medium RDS(on) (100 m Ω - 1 Ω))

7.2.3 High RDS(on) (> 1 Ω)

7.3 Market Segment by RDS(on) Range

7.3.1 World Planar MOSFET Production by RDS(on) Range (2021-2032)

7.3.2 World Planar MOSFET Production Value by RDS(on) Range (2021-2032)

7.3.3 World Planar MOSFET Average Price by RDS(on) Range (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Planar MOSFET Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Industrial Control

8.2.2 Automotive

8.2.3 Consumer Electronics

8.2.4 Communication

8.2.5 Others

8.3 Market Segment by Application

8.3.1 World Planar MOSFET Production by Application (2021-2032)

8.3.2 World Planar MOSFET Production Value by Application (2021-2032)

8.3.3 World Planar MOSFET Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Infineon Technologies AG

9.1.1 Infineon Technologies AG Details

9.1.2 Infineon Technologies AG Major Business

9.1.3 Infineon Technologies AG Planar MOSFET Product and Services

9.1.4 Infineon Technologies AG Planar MOSFET Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Infineon Technologies AG Recent Developments/Updates

- 9.1.6 Infineon Technologies AG Competitive Strengths & Weaknesses
- 9.2 ON Semiconductor Corporation
 - 9.2.1 ON Semiconductor Corporation Details
 - 9.2.2 ON Semiconductor Corporation Major Business
 - 9.2.3 ON Semiconductor Corporation Planar MOSFET Product and Services
 - 9.2.4 ON Semiconductor Corporation Planar MOSFET Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 ON Semiconductor Corporation Recent Developments/Updates
 - 9.2.6 ON Semiconductor Corporation Competitive Strengths & Weaknesses
- 9.3 STMicroelectronics N.V.
 - 9.3.1 STMicroelectronics N.V. Details
 - 9.3.2 STMicroelectronics N.V. Major Business
 - 9.3.3 STMicroelectronics N.V. Planar MOSFET Product and Services
 - 9.3.4 STMicroelectronics N.V. Planar MOSFET Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 STMicroelectronics N.V. Recent Developments/Updates
 - 9.3.6 STMicroelectronics N.V. Competitive Strengths & Weaknesses
- 9.4 Vishay Intertechnology, Inc.
 - 9.4.1 Vishay Intertechnology, Inc. Details
 - 9.4.2 Vishay Intertechnology, Inc. Major Business
 - 9.4.3 Vishay Intertechnology, Inc. Planar MOSFET Product and Services
 - 9.4.4 Vishay Intertechnology, Inc. Planar MOSFET Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Vishay Intertechnology, Inc. Recent Developments/Updates
 - 9.4.6 Vishay Intertechnology, Inc. Competitive Strengths & Weaknesses
- 9.5 Toshiba Corporation
 - 9.5.1 Toshiba Corporation Details
 - 9.5.2 Toshiba Corporation Major Business
 - 9.5.3 Toshiba Corporation Planar MOSFET Product and Services
 - 9.5.4 Toshiba Corporation Planar MOSFET Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Toshiba Corporation Recent Developments/Updates
 - 9.5.6 Toshiba Corporation Competitive Strengths & Weaknesses
- 9.6 ROHM Semiconductor
 - 9.6.1 ROHM Semiconductor Details
 - 9.6.2 ROHM Semiconductor Major Business
 - 9.6.3 ROHM Semiconductor Planar MOSFET Product and Services
 - 9.6.4 ROHM Semiconductor Planar MOSFET Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.6.5 ROHM Semiconductor Recent Developments/Updates
- 9.6.6 ROHM Semiconductor Competitive Strengths & Weaknesses
- 9.7 Nexperia B.V.
 - 9.7.1 Nexperia B.V. Details
 - 9.7.2 Nexperia B.V. Major Business
 - 9.7.3 Nexperia B.V. Planar MOSFET Product and Services
 - 9.7.4 Nexperia B.V. Planar MOSFET Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Nexperia B.V. Recent Developments/Updates
 - 9.7.6 Nexperia B.V. Competitive Strengths & Weaknesses
- 9.8 Diodes Incorporated
 - 9.8.1 Diodes Incorporated Details
 - 9.8.2 Diodes Incorporated Major Business
 - 9.8.3 Diodes Incorporated Planar MOSFET Product and Services
 - 9.8.4 Diodes Incorporated Planar MOSFET Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Diodes Incorporated Recent Developments/Updates
 - 9.8.6 Diodes Incorporated Competitive Strengths & Weaknesses
- 9.9 Microchip Technology Inc.
 - 9.9.1 Microchip Technology Inc. Details
 - 9.9.2 Microchip Technology Inc. Major Business
 - 9.9.3 Microchip Technology Inc. Planar MOSFET Product and Services
 - 9.9.4 Microchip Technology Inc. Planar MOSFET Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Microchip Technology Inc. Recent Developments/Updates
 - 9.9.6 Microchip Technology Inc. Competitive Strengths & Weaknesses
- 9.10 Alpha and Omega Semiconductor (AOS)
 - 9.10.1 Alpha and Omega Semiconductor (AOS) Details
 - 9.10.2 Alpha and Omega Semiconductor (AOS) Major Business
 - 9.10.3 Alpha and Omega Semiconductor (AOS) Planar MOSFET Product and Services
 - 9.10.4 Alpha and Omega Semiconductor (AOS) Planar MOSFET Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Alpha and Omega Semiconductor (AOS) Recent Developments/Updates
 - 9.10.6 Alpha and Omega Semiconductor (AOS) Competitive Strengths & Weaknesses
- 9.11 Renesas Electronics Corporation
 - 9.11.1 Renesas Electronics Corporation Details
 - 9.11.2 Renesas Electronics Corporation Major Business
 - 9.11.3 Renesas Electronics Corporation Planar MOSFET Product and Services
 - 9.11.4 Renesas Electronics Corporation Planar MOSFET Production, Price, Value,

Gross Margin and Market Share (2021-2026)

9.11.5 Renesas Electronics Corporation Recent Developments/Updates

9.11.6 Renesas Electronics Corporation Competitive Strengths & Weaknesses

9.12 Shindengen Electric Manufacturing Co., Ltd.

9.12.1 Shindengen Electric Manufacturing Co., Ltd. Details

9.12.2 Shindengen Electric Manufacturing Co., Ltd. Major Business

9.12.3 Shindengen Electric Manufacturing Co., Ltd. Planar MOSFET Product and Services

9.12.4 Shindengen Electric Manufacturing Co., Ltd. Planar MOSFET Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Shindengen Electric Manufacturing Co., Ltd. Recent Developments/Updates

9.12.6 Shindengen Electric Manufacturing Co., Ltd. Competitive Strengths & Weaknesses

9.13 Suzhou Convert Semiconductor Co., Ltd.

9.13.1 Suzhou Convert Semiconductor Co., Ltd. Details

9.13.2 Suzhou Convert Semiconductor Co., Ltd. Major Business

9.13.3 Suzhou Convert Semiconductor Co., Ltd. Planar MOSFET Product and Services

9.13.4 Suzhou Convert Semiconductor Co., Ltd. Planar MOSFET Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Suzhou Convert Semiconductor Co., Ltd. Recent Developments/Updates

9.13.6 Suzhou Convert Semiconductor Co., Ltd. Competitive Strengths & Weaknesses

9.14 Wingtech Technology Co., Ltd.

9.14.1 Wingtech Technology Co., Ltd. Details

9.14.2 Wingtech Technology Co., Ltd. Major Business

9.14.3 Wingtech Technology Co., Ltd. Planar MOSFET Product and Services

9.14.4 Wingtech Technology Co., Ltd. Planar MOSFET Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Wingtech Technology Co., Ltd. Recent Developments/Updates

9.14.6 Wingtech Technology Co., Ltd. Competitive Strengths & Weaknesses

9.15 China Resources Microelectronics Ltd.

9.15.1 China Resources Microelectronics Ltd. Details

9.15.2 China Resources Microelectronics Ltd. Major Business

9.15.3 China Resources Microelectronics Ltd. Planar MOSFET Product and Services

9.15.4 China Resources Microelectronics Ltd. Planar MOSFET Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 China Resources Microelectronics Ltd. Recent Developments/Updates

9.15.6 China Resources Microelectronics Ltd. Competitive Strengths & Weaknesses

9.16 Hangzhou Silan Microelectronics Co., Ltd.

9.16.1 Hangzhou Silan Microelectronics Co., Ltd. Details

- 9.16.2 Hangzhou Silan Microelectronics Co., Ltd. Major Business
- 9.16.3 Hangzhou Silan Microelectronics Co., Ltd. Planar MOSFET Product and Services
- 9.16.4 Hangzhou Silan Microelectronics Co., Ltd. Planar MOSFET Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.16.5 Hangzhou Silan Microelectronics Co., Ltd. Recent Developments/Updates
- 9.16.6 Hangzhou Silan Microelectronics Co., Ltd. Competitive Strengths & Weaknesses
- 9.17 Yangzhou Yangjie Electronic Technology Co., Ltd.
- 9.17.1 Yangzhou Yangjie Electronic Technology Co., Ltd. Details
- 9.17.2 Yangzhou Yangjie Electronic Technology Co., Ltd. Major Business
- 9.17.3 Yangzhou Yangjie Electronic Technology Co., Ltd. Planar MOSFET Product and Services
- 9.17.4 Yangzhou Yangjie Electronic Technology Co., Ltd. Planar MOSFET Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.17.5 Yangzhou Yangjie Electronic Technology Co., Ltd. Recent Developments/Updates
- 9.17.6 Yangzhou Yangjie Electronic Technology Co., Ltd. Competitive Strengths & Weaknesses
- 9.18 Jilin Sino-Microelectronics Co., Ltd.
- 9.18.1 Jilin Sino-Microelectronics Co., Ltd. Details
- 9.18.2 Jilin Sino-Microelectronics Co., Ltd. Major Business
- 9.18.3 Jilin Sino-Microelectronics Co., Ltd. Planar MOSFET Product and Services
- 9.18.4 Jilin Sino-Microelectronics Co., Ltd. Planar MOSFET Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.18.5 Jilin Sino-Microelectronics Co., Ltd. Recent Developments/Updates
- 9.18.6 Jilin Sino-Microelectronics Co., Ltd. Competitive Strengths & Weaknesses
- 9.19 VBsemi
- 9.19.1 VBsemi Details
- 9.19.2 VBsemi Major Business
- 9.19.3 VBsemi Planar MOSFET Product and Services
- 9.19.4 VBsemi Planar MOSFET Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.19.5 VBsemi Recent Developments/Updates
- 9.19.6 VBsemi Competitive Strengths & Weaknesses
- 9.20 Goford Semiconductor
- 9.20.1 Goford Semiconductor Details
- 9.20.2 Goford Semiconductor Major Business
- 9.20.3 Goford Semiconductor Planar MOSFET Product and Services
- 9.20.4 Goford Semiconductor Planar MOSFET Production, Price, Value, Gross Margin

and Market Share (2021-2026)

9.20.5 Goford Semiconductor Recent Developments/Updates

9.20.6 Goford Semiconductor Competitive Strengths & Weaknesses

9.21 Leadpower Semiconductor

9.21.1 Leadpower Semiconductor Details

9.21.2 Leadpower Semiconductor Major Business

9.21.3 Leadpower Semiconductor Planar MOSFET Product and Services

9.21.4 Leadpower Semiconductor Planar MOSFET Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.21.5 Leadpower Semiconductor Recent Developments/Updates

9.21.6 Leadpower Semiconductor Competitive Strengths & Weaknesses

9.22 TRUESEMI

9.22.1 TRUESEMI Details

9.22.2 TRUESEMI Major Business

9.22.3 TRUESEMI Planar MOSFET Product and Services

9.22.4 TRUESEMI Planar MOSFET Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.22.5 TRUESEMI Recent Developments/Updates

9.22.6 TRUESEMI Competitive Strengths & Weaknesses

9.23 Lonten Semiconductor

9.23.1 Lonten Semiconductor Details

9.23.2 Lonten Semiconductor Major Business

9.23.3 Lonten Semiconductor Planar MOSFET Product and Services

9.23.4 Lonten Semiconductor Planar MOSFET Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.23.5 Lonten Semiconductor Recent Developments/Updates

9.23.6 Lonten Semiconductor Competitive Strengths & Weaknesses

9.24 Jinan Jingheng Electronics Co., Ltd.

9.24.1 Jinan Jingheng Electronics Co., Ltd. Details

9.24.2 Jinan Jingheng Electronics Co., Ltd. Major Business

9.24.3 Jinan Jingheng Electronics Co., Ltd. Planar MOSFET Product and Services

9.24.4 Jinan Jingheng Electronics Co., Ltd. Planar MOSFET Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.24.5 Jinan Jingheng Electronics Co., Ltd. Recent Developments/Updates

9.24.6 Jinan Jingheng Electronics Co., Ltd. Competitive Strengths & Weaknesses

9.25 Kwansemi Semiconductor

9.25.1 Kwansemi Semiconductor Details

9.25.2 Kwansemi Semiconductor Major Business

9.25.3 Kwansemi Semiconductor Planar MOSFET Product and Services

9.25.4 Kwansemi Semiconductor Planar MOSFET Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.25.5 Kwansemi Semiconductor Recent Developments/Updates

9.25.6 Kwansemi Semiconductor Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Planar MOSFET Industry Chain

10.2 Planar MOSFET Upstream Analysis

10.2.1 Planar MOSFET Core Raw Materials

10.2.2 Main Manufacturers of Planar MOSFET Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Planar MOSFET Production Mode

10.6 Planar MOSFET Procurement Model

10.7 Planar MOSFET Industry Sales Model and Sales Channels

10.7.1 Planar MOSFET Sales Model

10.7.2 Planar MOSFET Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Planar MOSFET Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Planar MOSFET Production Value by Region (2021-2026) & (USD Million)

Table 3. World Planar MOSFET Production Value by Region (2027-2032) & (USD Million)

Table 4. World Planar MOSFET Production Value Market Share by Region (2021-2026)

Table 5. World Planar MOSFET Production Value Market Share by Region (2027-2032)

Table 6. World Planar MOSFET Production by Region (2021-2026) & (Million Units)

Table 7. World Planar MOSFET Production by Region (2027-2032) & (Million Units)

Table 8. World Planar MOSFET Production Market Share by Region (2021-2026)

Table 9. World Planar MOSFET Production Market Share by Region (2027-2032)

Table 10. World Planar MOSFET Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Planar MOSFET Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Planar MOSFET Major Market Trends

Table 13. World Planar MOSFET Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Million Units)

Table 14. World Planar MOSFET Consumption by Region (2021-2026) & (Million Units)

Table 15. World Planar MOSFET Consumption Forecast by Region (2027-2032) & (Million Units)

Table 16. World Planar MOSFET Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Planar MOSFET Producers in 2025

Table 18. World Planar MOSFET Production by Manufacturer (2021-2026) & (Million Units)

Table 19. Production Market Share of Key Planar MOSFET Producers in 2025

Table 20. World Planar MOSFET Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Planar MOSFET Company Evaluation Quadrant

Table 22. World Planar MOSFET Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Planar MOSFET Production Site of Key Manufacturer

Table 24. Planar MOSFET Market: Company Product Type Footprint

Table 25. Planar MOSFET Market: Company Product Application Footprint

Table 26. Planar MOSFET Competitive Factors

Table 27. Planar MOSFET New Entrant and Capacity Expansion Plans
Table 28. Planar MOSFET Mergers & Acquisitions Activity
Table 29. United States VS China Planar MOSFET Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China Planar MOSFET Production Comparison, (2021 & 2025 & 2032) & (Million Units)
Table 31. United States VS China Planar MOSFET Consumption Comparison, (2021 & 2025 & 2032) & (Million Units)
Table 32. United States Based Planar MOSFET Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers Planar MOSFET Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers Planar MOSFET Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers Planar MOSFET Production (2021-2026) & (Million Units)
Table 36. United States Based Manufacturers Planar MOSFET Production Market Share (2021-2026)
Table 37. China Based Planar MOSFET Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers Planar MOSFET Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers Planar MOSFET Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers Planar MOSFET Production, (2021-2026) & (Million Units)
Table 41. China Based Manufacturers Planar MOSFET Production Market Share (2021-2026)
Table 42. Rest of World Based Planar MOSFET Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers Planar MOSFET Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers Planar MOSFET Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers Planar MOSFET Production, (2021-2026) & (Million Units)
Table 46. Rest of World Based Manufacturers Planar MOSFET Production Market Share (2021-2026)
Table 47. World Planar MOSFET Production Value by Type, (USD Million), 2021 &

2025 & 2032

Table 48. World Planar MOSFET Production by Type (2021-2026) & (Million Units)

Table 49. World Planar MOSFET Production by Type (2027-2032) & (Million Units)

Table 50. World Planar MOSFET Production Value by Type (2021-2026) & (USD Million)

Table 51. World Planar MOSFET Production Value by Type (2027-2032) & (USD Million)

Table 52. World Planar MOSFET Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Planar MOSFET Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Planar MOSFET Production Value by Channel Type, (USD Million), 2021 & 2025 & 2032

Table 55. World Planar MOSFET Production by Channel Type (2021-2026) & (Million Units)

Table 56. World Planar MOSFET Production by Channel Type (2027-2032) & (Million Units)

Table 57. World Planar MOSFET Production Value by Channel Type (2021-2026) & (USD Million)

Table 58. World Planar MOSFET Production Value by Channel Type (2027-2032) & (USD Million)

Table 59. World Planar MOSFET Average Price by Channel Type (2021-2026) & (US\$/Unit)

Table 60. World Planar MOSFET Average Price by Channel Type (2027-2032) & (US\$/Unit)

Table 61. World Planar MOSFET Production Value by RDS(on) Range, (USD Million), 2021 & 2025 & 2032

Table 62. World Planar MOSFET Production by RDS(on) Range (2021-2026) & (Million Units)

Table 63. World Planar MOSFET Production by RDS(on) Range (2027-2032) & (Million Units)

Table 64. World Planar MOSFET Production Value by RDS(on) Range (2021-2026) & (USD Million)

Table 65. World Planar MOSFET Production Value by RDS(on) Range (2027-2032) & (USD Million)

Table 66. World Planar MOSFET Average Price by RDS(on) Range (2021-2026) & (US\$/Unit)

Table 67. World Planar MOSFET Average Price by RDS(on) Range (2027-2032) & (US\$/Unit)

Table 68. World Planar MOSFET Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Planar MOSFET Production by Application (2021-2026) & (Million Units)

Table 70. World Planar MOSFET Production by Application (2027-2032) & (Million Units)

Table 71. World Planar MOSFET Production Value by Application (2021-2026) & (USD Million)

Table 72. World Planar MOSFET Production Value by Application (2027-2032) & (USD Million)

Table 73. World Planar MOSFET Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Planar MOSFET Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Infineon Technologies AG Basic Information, Manufacturing Base and Competitors

Table 76. Infineon Technologies AG Major Business

Table 77. Infineon Technologies AG Planar MOSFET Product and Services

Table 78. Infineon Technologies AG Planar MOSFET Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Infineon Technologies AG Recent Developments/Updates

Table 80. Infineon Technologies AG Competitive Strengths & Weaknesses

Table 81. ON Semiconductor Corporation Basic Information, Manufacturing Base and Competitors

Table 82. ON Semiconductor Corporation Major Business

Table 83. ON Semiconductor Corporation Planar MOSFET Product and Services

Table 84. ON Semiconductor Corporation Planar MOSFET Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. ON Semiconductor Corporation Recent Developments/Updates

Table 86. ON Semiconductor Corporation Competitive Strengths & Weaknesses

Table 87. STMicroelectronics N.V. Basic Information, Manufacturing Base and Competitors

Table 88. STMicroelectronics N.V. Major Business

Table 89. STMicroelectronics N.V. Planar MOSFET Product and Services

Table 90. STMicroelectronics N.V. Planar MOSFET Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. STMicroelectronics N.V. Recent Developments/Updates

Table 92. STMicroelectronics N.V. Competitive Strengths & Weaknesses

Table 93. Vishay Intertechnology, Inc. Basic Information, Manufacturing Base and Competitors

Table 94. Vishay Intertechnology, Inc. Major Business

Table 95. Vishay Intertechnology, Inc. Planar MOSFET Product and Services

Table 96. Vishay Intertechnology, Inc. Planar MOSFET Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Vishay Intertechnology, Inc. Recent Developments/Updates

Table 98. Vishay Intertechnology, Inc. Competitive Strengths & Weaknesses

Table 99. Toshiba Corporation Basic Information, Manufacturing Base and Competitors

Table 100. Toshiba Corporation Major Business

Table 101. Toshiba Corporation Planar MOSFET Product and Services

Table 102. Toshiba Corporation Planar MOSFET Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Toshiba Corporation Recent Developments/Updates

Table 104. Toshiba Corporation Competitive Strengths & Weaknesses

Table 105. ROHM Semiconductor Basic Information, Manufacturing Base and Competitors

Table 106. ROHM Semiconductor Major Business

Table 107. ROHM Semiconductor Planar MOSFET Product and Services

Table 108. ROHM Semiconductor Planar MOSFET Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. ROHM Semiconductor Recent Developments/Updates

Table 110. ROHM Semiconductor Competitive Strengths & Weaknesses

Table 111. Nexperia B.V. Basic Information, Manufacturing Base and Competitors

Table 112. Nexperia B.V. Major Business

Table 113. Nexperia B.V. Planar MOSFET Product and Services

Table 114. Nexperia B.V. Planar MOSFET Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Nexperia B.V. Recent Developments/Updates

Table 116. Nexperia B.V. Competitive Strengths & Weaknesses

Table 117. Diodes Incorporated Basic Information, Manufacturing Base and Competitors

Table 118. Diodes Incorporated Major Business

Table 119. Diodes Incorporated Planar MOSFET Product and Services

Table 120. Diodes Incorporated Planar MOSFET Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 121. Diodes Incorporated Recent Developments/Updates

Table 122. Diodes Incorporated Competitive Strengths & Weaknesses

Table 123. Microchip Technology Inc. Basic Information, Manufacturing Base and Competitors

Table 124. Microchip Technology Inc. Major Business

Table 125. Microchip Technology Inc. Planar MOSFET Product and Services

Table 126. Microchip Technology Inc. Planar MOSFET Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Microchip Technology Inc. Recent Developments/Updates

Table 128. Microchip Technology Inc. Competitive Strengths & Weaknesses

Table 129. Alpha and Omega Semiconductor (AOS) Basic Information, Manufacturing Base and Competitors

Table 130. Alpha and Omega Semiconductor (AOS) Major Business

Table 131. Alpha and Omega Semiconductor (AOS) Planar MOSFET Product and Services

Table 132. Alpha and Omega Semiconductor (AOS) Planar MOSFET Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Alpha and Omega Semiconductor (AOS) Recent Developments/Updates

Table 134. Alpha and Omega Semiconductor (AOS) Competitive Strengths & Weaknesses

Table 135. Renesas Electronics Corporation Basic Information, Manufacturing Base and Competitors

Table 136. Renesas Electronics Corporation Major Business

Table 137. Renesas Electronics Corporation Planar MOSFET Product and Services

Table 138. Renesas Electronics Corporation Planar MOSFET Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Renesas Electronics Corporation Recent Developments/Updates

Table 140. Renesas Electronics Corporation Competitive Strengths & Weaknesses

Table 141. Shindengen Electric Manufacturing Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 142. Shindengen Electric Manufacturing Co., Ltd. Major Business

Table 143. Shindengen Electric Manufacturing Co., Ltd. Planar MOSFET Product and Services

Table 144. Shindengen Electric Manufacturing Co., Ltd. Planar MOSFET Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and

Market Share (2021-2026)

Table 145. Shindengen Electric Manufacturing Co., Ltd. Recent Developments/Updates

Table 146. Shindengen Electric Manufacturing Co., Ltd. Competitive Strengths & Weaknesses

Table 147. Suzhou Convert Semiconductor Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 148. Suzhou Convert Semiconductor Co., Ltd. Major Business

Table 149. Suzhou Convert Semiconductor Co., Ltd. Planar MOSFET Product and Services

Table 150. Suzhou Convert Semiconductor Co., Ltd. Planar MOSFET Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Suzhou Convert Semiconductor Co., Ltd. Recent Developments/Updates

Table 152. Suzhou Convert Semiconductor Co., Ltd. Competitive Strengths & Weaknesses

Table 153. Wingtech Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 154. Wingtech Technology Co., Ltd. Major Business

Table 155. Wingtech Technology Co., Ltd. Planar MOSFET Product and Services

Table 156. Wingtech Technology Co., Ltd. Planar MOSFET Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Wingtech Technology Co., Ltd. Recent Developments/Updates

Table 158. Wingtech Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 159. China Resources Microelectronics Ltd. Basic Information, Manufacturing Base and Competitors

Table 160. China Resources Microelectronics Ltd. Major Business

Table 161. China Resources Microelectronics Ltd. Planar MOSFET Product and Services

Table 162. China Resources Microelectronics Ltd. Planar MOSFET Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. China Resources Microelectronics Ltd. Recent Developments/Updates

Table 164. China Resources Microelectronics Ltd. Competitive Strengths & Weaknesses

Table 165. Hangzhou Silan Microelectronics Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 166. Hangzhou Silan Microelectronics Co., Ltd. Major Business

Table 167. Hangzhou Silan Microelectronics Co., Ltd. Planar MOSFET Product and

Services

Table 168. Hangzhou Silan Microelectronics Co., Ltd. Planar MOSFET Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Hangzhou Silan Microelectronics Co., Ltd. Recent Developments/Updates

Table 170. Hangzhou Silan Microelectronics Co., Ltd. Competitive Strengths & Weaknesses

Table 171. Yangzhou Yangjie Electronic Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 172. Yangzhou Yangjie Electronic Technology Co., Ltd. Major Business

Table 173. Yangzhou Yangjie Electronic Technology Co., Ltd. Planar MOSFET Product and Services

Table 174. Yangzhou Yangjie Electronic Technology Co., Ltd. Planar MOSFET Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Yangzhou Yangjie Electronic Technology Co., Ltd. Recent Developments/Updates

Table 176. Yangzhou Yangjie Electronic Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 177. Jilin Sino-Microelectronics Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 178. Jilin Sino-Microelectronics Co., Ltd. Major Business

Table 179. Jilin Sino-Microelectronics Co., Ltd. Planar MOSFET Product and Services

Table 180. Jilin Sino-Microelectronics Co., Ltd. Planar MOSFET Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. Jilin Sino-Microelectronics Co., Ltd. Recent Developments/Updates

Table 182. Jilin Sino-Microelectronics Co., Ltd. Competitive Strengths & Weaknesses

Table 183. VBsemi Basic Information, Manufacturing Base and Competitors

Table 184. VBsemi Major Business

Table 185. VBsemi Planar MOSFET Product and Services

Table 186. VBsemi Planar MOSFET Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. VBsemi Recent Developments/Updates

Table 188. VBsemi Competitive Strengths & Weaknesses

Table 189. Goford Semiconductor Basic Information, Manufacturing Base and Competitors

Table 190. Goford Semiconductor Major Business

Table 191. Goford Semiconductor Planar MOSFET Product and Services

Table 192. Goford Semiconductor Planar MOSFET Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 193. Goford Semiconductor Recent Developments/Updates

Table 194. Goford Semiconductor Competitive Strengths & Weaknesses

Table 195. Leadpower Semiconductor Basic Information, Manufacturing Base and Competitors

Table 196. Leadpower Semiconductor Major Business

Table 197. Leadpower Semiconductor Planar MOSFET Product and Services

Table 198. Leadpower Semiconductor Planar MOSFET Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 199. Leadpower Semiconductor Recent Developments/Updates

Table 200. Leadpower Semiconductor Competitive Strengths & Weaknesses

Table 201. TRUESEMI Basic Information, Manufacturing Base and Competitors

Table 202. TRUESEMI Major Business

Table 203. TRUESEMI Planar MOSFET Product and Services

Table 204. TRUESEMI Planar MOSFET Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 205. TRUESEMI Recent Developments/Updates

Table 206. TRUESEMI Competitive Strengths & Weaknesses

Table 207. Lonten Semiconductor Basic Information, Manufacturing Base and Competitors

Table 208. Lonten Semiconductor Major Business

Table 209. Lonten Semiconductor Planar MOSFET Product and Services

Table 210. Lonten Semiconductor Planar MOSFET Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 211. Lonten Semiconductor Recent Developments/Updates

Table 212. Lonten Semiconductor Competitive Strengths & Weaknesses

Table 213. Jinan Jingheng Electronics Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 214. Jinan Jingheng Electronics Co., Ltd. Major Business

Table 215. Jinan Jingheng Electronics Co., Ltd. Planar MOSFET Product and Services

Table 216. Jinan Jingheng Electronics Co., Ltd. Planar MOSFET Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 217. Jinan Jingheng Electronics Co., Ltd. Recent Developments/Updates

Table 218. Jinan Jingheng Electronics Co., Ltd. Competitive Strengths & Weaknesses

Table 219. Kwansemi Semiconductor Basic Information, Manufacturing Base and Competitors

Table 220. Kwansemi Semiconductor Major Business

Table 221. Kwansemi Semiconductor Planar MOSFET Product and Services

Table 222. Kwansemi Semiconductor Planar MOSFET Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 223. Kwansemi Semiconductor Recent Developments/Updates

Table 224. Kwansemi Semiconductor Competitive Strengths & Weaknesses

Table 225. Global Key Players of Planar MOSFET Upstream (Raw Materials)

Table 226. Global Planar MOSFET Typical Customers

Table 227. Planar MOSFET Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Planar MOSFET Picture

Figure 2. World Planar MOSFET Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Planar MOSFET Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Planar MOSFET Production (2021-2032) & (Million Units)

Figure 5. World Planar MOSFET Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Planar MOSFET Production Value Market Share by Region (2021-2032)

Figure 7. World Planar MOSFET Production Market Share by Region (2021-2032)

Figure 8. North America Planar MOSFET Production (2021-2032) & (Million Units)

Figure 9. Europe Planar MOSFET Production (2021-2032) & (Million Units)

Figure 10. China Planar MOSFET Production (2021-2032) & (Million Units)

Figure 11. Japan Planar MOSFET Production (2021-2032) & (Million Units)

Figure 12. South Korea Planar MOSFET Production (2021-2032) & (Million Units)

Figure 13. Taiwan Planar MOSFET Production (2021-2032) & (Million Units)

Figure 14. Planar MOSFET Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Planar MOSFET Consumption (2021-2032) & (Million Units)

Figure 17. World Planar MOSFET Consumption Market Share by Region (2021-2032)

Figure 18. United States Planar MOSFET Consumption (2021-2032) & (Million Units)

Figure 19. China Planar MOSFET Consumption (2021-2032) & (Million Units)

Figure 20. Europe Planar MOSFET Consumption (2021-2032) & (Million Units)

Figure 21. Japan Planar MOSFET Consumption (2021-2032) & (Million Units)

Figure 22. South Korea Planar MOSFET Consumption (2021-2032) & (Million Units)

Figure 23. ASEAN Planar MOSFET Consumption (2021-2032) & (Million Units)

Figure 24. India Planar MOSFET Consumption (2021-2032) & (Million Units)

Figure 25. Producer Shipments of Planar MOSFET by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Planar MOSFET Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Planar MOSFET Markets in 2025

Figure 28. United States VS China: Planar MOSFET Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Planar MOSFET Production Market Share

Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Planar MOSFET Consumption Market Share

Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Planar MOSFET Production Market Share 2025

Figure 32. China Based Manufacturers Planar MOSFET Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Planar MOSFET Production Market Share 2025

Figure 34. World Planar MOSFET Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Planar MOSFET Production Value Market Share by Type in 2025

Figure 36. Less than 100V

Figure 37. 100-500V

Figure 38. 500-1000V

Figure 39. 1000-1500V

Figure 40. More than 1500V

Figure 41. World Planar MOSFET Production Market Share by Type (2021-2032)

Figure 42. World Planar MOSFET Production Value Market Share by Type (2021-2032)

Figure 43. World Planar MOSFET Average Price by Type (2021-2032) & (US\$/Unit)

Figure 44. World Planar MOSFET Production Value by Channel Type, (USD Million), 2021 & 2025 & 2032

Figure 45. World Planar MOSFET Production Value Market Share by Channel Type in 2025

Figure 46. N-Channel Planar MOSFET

Figure 47. P-Channel Planar MOSFET

Figure 48. World Planar MOSFET Production Market Share by Channel Type (2021-2032)

Figure 49. World Planar MOSFET Production Value Market Share by Channel Type (2021-2032)

Figure 50. World Planar MOSFET Average Price by Channel Type (2021-2032) & (US\$/Unit)

Figure 51. World Planar MOSFET Production Value by RDS(on) Range, (USD Million), 2021 & 2025 & 2032

Figure 52. World Planar MOSFET Production Value Market Share by RDS(on) Range in 2025

Figure 53. Low RDS(on) (Figure 54. Medium RDS(on) (100 m Ω - 1 Ω ?)

Figure 55. High RDS(on) (> 1 Ω ?)

Figure 56. World Planar MOSFET Production Market Share by RDS(on) Range (2021-2032)

Figure 57. World Planar MOSFET Production Value Market Share by RDS(on) Range (2021-2032)

Figure 58. World Planar MOSFET Average Price by RDS(on) Range (2021-2032) & (US\$/Unit)

Figure 59. World Planar MOSFET Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 60. World Planar MOSFET Production Value Market Share by Application in 2025

Figure 61. Industrial Control

Figure 62. Automotive

Figure 63. Consumer Electronics

Figure 64. Communication

Figure 65. Others

Figure 66. World Planar MOSFET Production Market Share by Application (2021-2032)

Figure 67. World Planar MOSFET Production Value Market Share by Application (2021-2032)

Figure 68. World Planar MOSFET Average Price by Application (2021-2032) & (US\$/Unit)

Figure 69. Planar MOSFET Industry Chain

Figure 70. Planar MOSFET Procurement Model

Figure 71. Planar MOSFET Sales Model

Figure 72. Planar MOSFET Sales Channels, Direct Sales, and Distribution

Figure 73. Methodology

Figure 74. Research Process and Data Source

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