

Global High Voltage Super Junction 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 High Voltage Super Junction MOSFET market size was valued at US\$ 1690 million in 2025 and is forecast to a readjusted size of US\$ 2571 million by 2032 with a CAGR of 6.2% during review period.

Super-junction MOSFETs are a key innovation in high-voltage MOSFET technology. They offer better features such as reduced gate capacitance, reduced on-resistance of the circuit [RDS(on)], and lower output charge with reduced die size.

Global High Voltage Super Junction MOSFET key players include Infineon, STMicroelectronics, Vishay, ROHM, etc. Global top four manufacturers hold a share over 60%.

China is the largest market, with a share about 40%, followed by Europe, and South Korea, both have a share about 25 percent.

In terms of product, 500V to 600V is the largest segment, with a share over 70%. And in terms of application, the largest application is Power Supply Application, followed by Consumer Electronics, Industrial Application, Lighting Application, etc.

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

Global High Voltage Super Junction MOSFET market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (M Units), and average selling prices (USD/Unit), 2021-2032

Global High Voltage Super Junction MOSFET market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (M Units), and average selling prices (USD/Unit), 2021-2032

Global High Voltage Super Junction MOSFET market shares of main players, shipments in revenue (\$ Million), sales quantity (M Units), and ASP (USD/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 High Voltage Super Junction 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 High Voltage Super Junction 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, STMicroelectronics, Vishay, ON Semiconductor, Toshiba, Alpha & Omega, Fuji Electric, MagnaChip, Silan, ROHM, etc.

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

Market Segmentation

High Voltage Super Junction 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

Below 500V

500V to 600V

Above 600V

Market segment by Application

Power Supply Application

Industrial Application

Lighting Application

Consumer Electronics

Others

Major players covered

Infineon

STMicroelectronics

Vishay

ON Semiconductor

Toshiba

Alpha & Omega

Fuji Electric

MagnaChip

Silan

ROHM

IceMOS Technology

DACO

WUXI NCE POWER

CYG Wayon

Semipower

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 High Voltage Super Junction MOSFET product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the High Voltage Super Junction 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 High Voltage Super Junction 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 High Voltage Super Junction MOSFET.

Chapter 14 and 15, to describe High Voltage Super Junction MOSFET sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global High Voltage Super Junction MOSFET Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Below 500V

1.3.3 500V to 600V

1.3.4 Above 600V

1.4 Market Analysis by Application

1.4.1 Overview: Global High Voltage Super Junction MOSFET Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.4.2 Power Supply Application

1.4.3 Industrial Application

1.4.4 Lighting Application

1.4.5 Consumer Electronics

1.4.6 Others

1.5 Global High Voltage Super Junction MOSFET Market Size & Forecast

1.5.1 Global High Voltage Super Junction MOSFET Consumption Value (2021 & 2025 & 2032)

1.5.2 Global High Voltage Super Junction MOSFET Sales Quantity (2021-2032)

1.5.3 Global High Voltage Super Junction MOSFET Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Infineon

2.1.1 Infineon Details

2.1.2 Infineon Major Business

2.1.3 Infineon High Voltage Super Junction MOSFET Product and Services

2.1.4 Infineon High Voltage Super Junction MOSFET Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Infineon Recent Developments/Updates

2.2 STMicroelectronics

2.2.1 STMicroelectronics Details

2.2.2 STMicroelectronics Major Business

2.2.3 STMicroelectronics High Voltage Super Junction MOSFET Product and Services

2.2.4 STMicroelectronics High Voltage Super Junction MOSFET Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 STMicroelectronics Recent Developments/Updates

2.3 Vishay

2.3.1 Vishay Details

2.3.2 Vishay Major Business

2.3.3 Vishay High Voltage Super Junction MOSFET Product and Services

2.3.4 Vishay High Voltage Super Junction MOSFET Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Vishay Recent Developments/Updates

2.4 ON Semiconductor

2.4.1 ON Semiconductor Details

2.4.2 ON Semiconductor Major Business

2.4.3 ON Semiconductor High Voltage Super Junction MOSFET Product and Services

2.4.4 ON Semiconductor High Voltage Super Junction MOSFET Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 ON Semiconductor Recent Developments/Updates

2.5 Toshiba

2.5.1 Toshiba Details

2.5.2 Toshiba Major Business

2.5.3 Toshiba High Voltage Super Junction MOSFET Product and Services

2.5.4 Toshiba High Voltage Super Junction MOSFET Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Toshiba Recent Developments/Updates

2.6 Alpha & Omega

2.6.1 Alpha & Omega Details

2.6.2 Alpha & Omega Major Business

2.6.3 Alpha & Omega High Voltage Super Junction MOSFET Product and Services

2.6.4 Alpha & Omega High Voltage Super Junction MOSFET Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Alpha & Omega Recent Developments/Updates

2.7 Fuji Electric

2.7.1 Fuji Electric Details

2.7.2 Fuji Electric Major Business

2.7.3 Fuji Electric High Voltage Super Junction MOSFET Product and Services

2.7.4 Fuji Electric High Voltage Super Junction MOSFET Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Fuji Electric Recent Developments/Updates

2.8 MagnaChip

- 2.8.1 MagnaChip Details
- 2.8.2 MagnaChip Major Business
- 2.8.3 MagnaChip High Voltage Super Junction MOSFET Product and Services
- 2.8.4 MagnaChip High Voltage Super Junction MOSFET Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.8.5 MagnaChip Recent Developments/Updates
- 2.9 Silan
 - 2.9.1 Silan Details
 - 2.9.2 Silan Major Business
 - 2.9.3 Silan High Voltage Super Junction MOSFET Product and Services
 - 2.9.4 Silan High Voltage Super Junction MOSFET Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 Silan Recent Developments/Updates
- 2.10 ROHM
 - 2.10.1 ROHM Details
 - 2.10.2 ROHM Major Business
 - 2.10.3 ROHM High Voltage Super Junction MOSFET Product and Services
 - 2.10.4 ROHM High Voltage Super Junction MOSFET Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.10.5 ROHM Recent Developments/Updates
- 2.11 IceMOS Technology
 - 2.11.1 IceMOS Technology Details
 - 2.11.2 IceMOS Technology Major Business
 - 2.11.3 IceMOS Technology High Voltage Super Junction MOSFET Product and Services
 - 2.11.4 IceMOS Technology High Voltage Super Junction MOSFET Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.11.5 IceMOS Technology Recent Developments/Updates
- 2.12 DACO
 - 2.12.1 DACO Details
 - 2.12.2 DACO Major Business
 - 2.12.3 DACO High Voltage Super Junction MOSFET Product and Services
 - 2.12.4 DACO High Voltage Super Junction MOSFET Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.12.5 DACO Recent Developments/Updates
- 2.13 WUXI NCE POWER
 - 2.13.1 WUXI NCE POWER Details
 - 2.13.2 WUXI NCE POWER Major Business
 - 2.13.3 WUXI NCE POWER High Voltage Super Junction MOSFET Product and

Services

2.13.4 WUXI NCE POWER High Voltage Super Junction MOSFET Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.13.5 WUXI NCE POWER Recent Developments/Updates

2.14 CYG Wayon

2.14.1 CYG Wayon Details

2.14.2 CYG Wayon Major Business

2.14.3 CYG Wayon High Voltage Super Junction MOSFET Product and Services

2.14.4 CYG Wayon High Voltage Super Junction MOSFET Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.14.5 CYG Wayon Recent Developments/Updates

2.15 Semipower

2.15.1 Semipower Details

2.15.2 Semipower Major Business

2.15.3 Semipower High Voltage Super Junction MOSFET Product and Services

2.15.4 Semipower High Voltage Super Junction MOSFET Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.15.5 Semipower Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: HIGH VOLTAGE SUPER JUNCTION MOSFET BY MANUFACTURER

3.1 Global High Voltage Super Junction MOSFET Sales Quantity by Manufacturer (2021-2026)

3.2 Global High Voltage Super Junction MOSFET Revenue by Manufacturer (2021-2026)

3.3 Global High Voltage Super Junction MOSFET Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of High Voltage Super Junction MOSFET by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 High Voltage Super Junction MOSFET Manufacturer Market Share in 2025

3.4.3 Top 6 High Voltage Super Junction MOSFET Manufacturer Market Share in 2025

3.5 High Voltage Super Junction MOSFET Market: Overall Company Footprint Analysis

3.5.1 High Voltage Super Junction MOSFET Market: Region Footprint

3.5.2 High Voltage Super Junction MOSFET Market: Company Product Type Footprint

3.5.3 High Voltage Super Junction MOSFET Market: Company Product Application

Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global High Voltage Super Junction MOSFET Market Size by Region

4.1.1 Global High Voltage Super Junction MOSFET Sales Quantity by Region
(2021-2032)

4.1.2 Global High Voltage Super Junction MOSFET Consumption Value by Region
(2021-2032)

4.1.3 Global High Voltage Super Junction MOSFET Average Price by Region
(2021-2032)

4.2 North America High Voltage Super Junction MOSFET Consumption Value
(2021-2032)

4.3 Europe High Voltage Super Junction MOSFET Consumption Value (2021-2032)

4.4 Asia-Pacific High Voltage Super Junction MOSFET Consumption Value
(2021-2032)

4.5 South America High Voltage Super Junction MOSFET Consumption Value
(2021-2032)

4.6 Middle East & Africa High Voltage Super Junction MOSFET Consumption Value
(2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global High Voltage Super Junction MOSFET Sales Quantity by Type (2021-2032)

5.2 Global High Voltage Super Junction MOSFET Consumption Value by Type
(2021-2032)

5.3 Global High Voltage Super Junction MOSFET Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global High Voltage Super Junction MOSFET Sales Quantity by Application
(2021-2032)

6.2 Global High Voltage Super Junction MOSFET Consumption Value by Application
(2021-2032)

6.3 Global High Voltage Super Junction MOSFET Average Price by Application
(2021-2032)

7 NORTH AMERICA

7.1 North America High Voltage Super Junction MOSFET Sales Quantity by Type (2021-2032)

7.2 North America High Voltage Super Junction MOSFET Sales Quantity by Application (2021-2032)

7.3 North America High Voltage Super Junction MOSFET Market Size by Country

7.3.1 North America High Voltage Super Junction MOSFET Sales Quantity by Country (2021-2032)

7.3.2 North America High Voltage Super Junction MOSFET Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe High Voltage Super Junction MOSFET Sales Quantity by Type (2021-2032)

8.2 Europe High Voltage Super Junction MOSFET Sales Quantity by Application (2021-2032)

8.3 Europe High Voltage Super Junction MOSFET Market Size by Country

8.3.1 Europe High Voltage Super Junction MOSFET Sales Quantity by Country (2021-2032)

8.3.2 Europe High Voltage Super Junction MOSFET Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific High Voltage Super Junction MOSFET Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific High Voltage Super Junction MOSFET Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific High Voltage Super Junction MOSFET Market Size by Region

9.3.1 Asia-Pacific High Voltage Super Junction MOSFET Sales Quantity by Region

(2021-2032)

9.3.2 Asia-Pacific High Voltage Super Junction MOSFET Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America High Voltage Super Junction MOSFET Sales Quantity by Type (2021-2032)

10.2 South America High Voltage Super Junction MOSFET Sales Quantity by Application (2021-2032)

10.3 South America High Voltage Super Junction MOSFET Market Size by Country

10.3.1 South America High Voltage Super Junction MOSFET Sales Quantity by Country (2021-2032)

10.3.2 South America High Voltage Super Junction MOSFET Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa High Voltage Super Junction MOSFET Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa High Voltage Super Junction MOSFET Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa High Voltage Super Junction MOSFET Market Size by Country

11.3.1 Middle East & Africa High Voltage Super Junction MOSFET Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa High Voltage Super Junction MOSFET Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

- 12.1 High Voltage Super Junction MOSFET Market Drivers
- 12.2 High Voltage Super Junction MOSFET Market Restraints
- 12.3 High Voltage Super Junction MOSFET Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of High Voltage Super Junction MOSFET and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of High Voltage Super Junction MOSFET
- 13.3 High Voltage Super Junction MOSFET Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 High Voltage Super Junction MOSFET Typical Distributors
- 14.3 High Voltage Super Junction MOSFET Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global High Voltage Super Junction MOSFET Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global High Voltage Super Junction MOSFET Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 3. Infineon Basic Information, Manufacturing Base and Competitors

Table 4. Infineon Major Business

Table 5. Infineon High Voltage Super Junction MOSFET Product and Services

Table 6. Infineon High Voltage Super Junction MOSFET Sales Quantity (M Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 7. Infineon Recent Developments/Updates

Table 8. STMicroelectronics Basic Information, Manufacturing Base and Competitors

Table 9. STMicroelectronics Major Business

Table 10. STMicroelectronics High Voltage Super Junction MOSFET Product and Services

Table 11. STMicroelectronics High Voltage Super Junction MOSFET Sales Quantity (M Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 12. STMicroelectronics Recent Developments/Updates

Table 13. Vishay Basic Information, Manufacturing Base and Competitors

Table 14. Vishay Major Business

Table 15. Vishay High Voltage Super Junction MOSFET Product and Services

Table 16. Vishay High Voltage Super Junction MOSFET Sales Quantity (M Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 17. Vishay Recent Developments/Updates

Table 18. ON Semiconductor Basic Information, Manufacturing Base and Competitors

Table 19. ON Semiconductor Major Business

Table 20. ON Semiconductor High Voltage Super Junction MOSFET Product and Services

Table 21. ON Semiconductor High Voltage Super Junction MOSFET Sales Quantity (M Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 22. ON Semiconductor Recent Developments/Updates

Table 23. Toshiba Basic Information, Manufacturing Base and Competitors

Table 24. Toshiba Major Business

Table 25. Toshiba High Voltage Super Junction MOSFET Product and Services

Table 26. Toshiba High Voltage Super Junction MOSFET Sales Quantity (M Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 27. Toshiba Recent Developments/Updates

Table 28. Alpha & Omega Basic Information, Manufacturing Base and Competitors

Table 29. Alpha & Omega Major Business

Table 30. Alpha & Omega High Voltage Super Junction MOSFET Product and Services

Table 31. Alpha & Omega High Voltage Super Junction MOSFET Sales Quantity (M Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 32. Alpha & Omega Recent Developments/Updates

Table 33. Fuji Electric Basic Information, Manufacturing Base and Competitors

Table 34. Fuji Electric Major Business

Table 35. Fuji Electric High Voltage Super Junction MOSFET Product and Services

Table 36. Fuji Electric High Voltage Super Junction MOSFET Sales Quantity (M Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 37. Fuji Electric Recent Developments/Updates

Table 38. MagnaChip Basic Information, Manufacturing Base and Competitors

Table 39. MagnaChip Major Business

Table 40. MagnaChip High Voltage Super Junction MOSFET Product and Services

Table 41. MagnaChip High Voltage Super Junction MOSFET Sales Quantity (M Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 42. MagnaChip Recent Developments/Updates

Table 43. Silan Basic Information, Manufacturing Base and Competitors

Table 44. Silan Major Business

Table 45. Silan High Voltage Super Junction MOSFET Product and Services

Table 46. Silan High Voltage Super Junction MOSFET Sales Quantity (M Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 47. Silan Recent Developments/Updates

Table 48. ROHM Basic Information, Manufacturing Base and Competitors

Table 49. ROHM Major Business

Table 50. ROHM High Voltage Super Junction MOSFET Product and Services

Table 51. ROHM High Voltage Super Junction MOSFET Sales Quantity (M Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share

(2021-2026)

Table 52. ROHM Recent Developments/Updates

Table 53. IceMOS Technology Basic Information, Manufacturing Base and Competitors

Table 54. IceMOS Technology Major Business

Table 55. IceMOS Technology High Voltage Super Junction MOSFET Product and Services

Table 56. IceMOS Technology High Voltage Super Junction MOSFET Sales Quantity (M Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 57. IceMOS Technology Recent Developments/Updates

Table 58. DACO Basic Information, Manufacturing Base and Competitors

Table 59. DACO Major Business

Table 60. DACO High Voltage Super Junction MOSFET Product and Services

Table 61. DACO High Voltage Super Junction MOSFET Sales Quantity (M Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 62. DACO Recent Developments/Updates

Table 63. WUXI NCE POWER Basic Information, Manufacturing Base and Competitors

Table 64. WUXI NCE POWER Major Business

Table 65. WUXI NCE POWER High Voltage Super Junction MOSFET Product and Services

Table 66. WUXI NCE POWER High Voltage Super Junction MOSFET Sales Quantity (M Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 67. WUXI NCE POWER Recent Developments/Updates

Table 68. CYG Wayon Basic Information, Manufacturing Base and Competitors

Table 69. CYG Wayon Major Business

Table 70. CYG Wayon High Voltage Super Junction MOSFET Product and Services

Table 71. CYG Wayon High Voltage Super Junction MOSFET Sales Quantity (M Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. CYG Wayon Recent Developments/Updates

Table 73. Semipower Basic Information, Manufacturing Base and Competitors

Table 74. Semipower Major Business

Table 75. Semipower High Voltage Super Junction MOSFET Product and Services

Table 76. Semipower High Voltage Super Junction MOSFET Sales Quantity (M Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 77. Semipower Recent Developments/Updates

Table 78. Global High Voltage Super Junction MOSFET Sales Quantity by Manufacturer (2021-2026) & (M Units)

Table 79. Global High Voltage Super Junction MOSFET Revenue by Manufacturer (2021-2026) & (USD Million)

Table 80. Global High Voltage Super Junction MOSFET Average Price by Manufacturer (2021-2026) & (USD/Unit)

Table 81. Market Position of Manufacturers in High Voltage Super Junction MOSFET, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 82. Head Office and High Voltage Super Junction MOSFET Production Site of Key Manufacturer

Table 83. High Voltage Super Junction MOSFET Market: Company Product Type Footprint

Table 84. High Voltage Super Junction MOSFET Market: Company Product Application Footprint

Table 85. High Voltage Super Junction MOSFET New Market Entrants and Barriers to Market Entry

Table 86. High Voltage Super Junction MOSFET Mergers, Acquisition, Agreements, and Collaborations

Table 87. Global High Voltage Super Junction MOSFET Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 88. Global High Voltage Super Junction MOSFET Sales Quantity by Region (2021-2026) & (M Units)

Table 89. Global High Voltage Super Junction MOSFET Sales Quantity by Region (2027-2032) & (M Units)

Table 90. Global High Voltage Super Junction MOSFET Consumption Value by Region (2021-2026) & (USD Million)

Table 91. Global High Voltage Super Junction MOSFET Consumption Value by Region (2027-2032) & (USD Million)

Table 92. Global High Voltage Super Junction MOSFET Average Price by Region (2021-2026) & (USD/Unit)

Table 93. Global High Voltage Super Junction MOSFET Average Price by Region (2027-2032) & (USD/Unit)

Table 94. Global High Voltage Super Junction MOSFET Sales Quantity by Type (2021-2026) & (M Units)

Table 95. Global High Voltage Super Junction MOSFET Sales Quantity by Type (2027-2032) & (M Units)

Table 96. Global High Voltage Super Junction MOSFET Consumption Value by Type (2021-2026) & (USD Million)

Table 97. Global High Voltage Super Junction MOSFET Consumption Value by Type

(2027-2032) & (USD Million)

Table 98. Global High Voltage Super Junction MOSFET Average Price by Type (2021-2026) & (USD/Unit)

Table 99. Global High Voltage Super Junction MOSFET Average Price by Type (2027-2032) & (USD/Unit)

Table 100. Global High Voltage Super Junction MOSFET Sales Quantity by Application (2021-2026) & (M Units)

Table 101. Global High Voltage Super Junction MOSFET Sales Quantity by Application (2027-2032) & (M Units)

Table 102. Global High Voltage Super Junction MOSFET Consumption Value by Application (2021-2026) & (USD Million)

Table 103. Global High Voltage Super Junction MOSFET Consumption Value by Application (2027-2032) & (USD Million)

Table 104. Global High Voltage Super Junction MOSFET Average Price by Application (2021-2026) & (USD/Unit)

Table 105. Global High Voltage Super Junction MOSFET Average Price by Application (2027-2032) & (USD/Unit)

Table 106. North America High Voltage Super Junction MOSFET Sales Quantity by Type (2021-2026) & (M Units)

Table 107. North America High Voltage Super Junction MOSFET Sales Quantity by Type (2027-2032) & (M Units)

Table 108. North America High Voltage Super Junction MOSFET Sales Quantity by Application (2021-2026) & (M Units)

Table 109. North America High Voltage Super Junction MOSFET Sales Quantity by Application (2027-2032) & (M Units)

Table 110. North America High Voltage Super Junction MOSFET Sales Quantity by Country (2021-2026) & (M Units)

Table 111. North America High Voltage Super Junction MOSFET Sales Quantity by Country (2027-2032) & (M Units)

Table 112. North America High Voltage Super Junction MOSFET Consumption Value by Country (2021-2026) & (USD Million)

Table 113. North America High Voltage Super Junction MOSFET Consumption Value by Country (2027-2032) & (USD Million)

Table 114. Europe High Voltage Super Junction MOSFET Sales Quantity by Type (2021-2026) & (M Units)

Table 115. Europe High Voltage Super Junction MOSFET Sales Quantity by Type (2027-2032) & (M Units)

Table 116. Europe High Voltage Super Junction MOSFET Sales Quantity by Application (2021-2026) & (M Units)

Table 117. Europe High Voltage Super Junction MOSFET Sales Quantity by Application (2027-2032) & (M Units)

Table 118. Europe High Voltage Super Junction MOSFET Sales Quantity by Country (2021-2026) & (M Units)

Table 119. Europe High Voltage Super Junction MOSFET Sales Quantity by Country (2027-2032) & (M Units)

Table 120. Europe High Voltage Super Junction MOSFET Consumption Value by Country (2021-2026) & (USD Million)

Table 121. Europe High Voltage Super Junction MOSFET Consumption Value by Country (2027-2032) & (USD Million)

Table 122. Asia-Pacific High Voltage Super Junction MOSFET Sales Quantity by Type (2021-2026) & (M Units)

Table 123. Asia-Pacific High Voltage Super Junction MOSFET Sales Quantity by Type (2027-2032) & (M Units)

Table 124. Asia-Pacific High Voltage Super Junction MOSFET Sales Quantity by Application (2021-2026) & (M Units)

Table 125. Asia-Pacific High Voltage Super Junction MOSFET Sales Quantity by Application (2027-2032) & (M Units)

Table 126. Asia-Pacific High Voltage Super Junction MOSFET Sales Quantity by Region (2021-2026) & (M Units)

Table 127. Asia-Pacific High Voltage Super Junction MOSFET Sales Quantity by Region (2027-2032) & (M Units)

Table 128. Asia-Pacific High Voltage Super Junction MOSFET Consumption Value by Region (2021-2026) & (USD Million)

Table 129. Asia-Pacific High Voltage Super Junction MOSFET Consumption Value by Region (2027-2032) & (USD Million)

Table 130. South America High Voltage Super Junction MOSFET Sales Quantity by Type (2021-2026) & (M Units)

Table 131. South America High Voltage Super Junction MOSFET Sales Quantity by Type (2027-2032) & (M Units)

Table 132. South America High Voltage Super Junction MOSFET Sales Quantity by Application (2021-2026) & (M Units)

Table 133. South America High Voltage Super Junction MOSFET Sales Quantity by Application (2027-2032) & (M Units)

Table 134. South America High Voltage Super Junction MOSFET Sales Quantity by Country (2021-2026) & (M Units)

Table 135. South America High Voltage Super Junction MOSFET Sales Quantity by Country (2027-2032) & (M Units)

Table 136. South America High Voltage Super Junction MOSFET Consumption Value

by Country (2021-2026) & (USD Million)

Table 137. South America High Voltage Super Junction MOSFET Consumption Value by Country (2027-2032) & (USD Million)

Table 138. Middle East & Africa High Voltage Super Junction MOSFET Sales Quantity by Type (2021-2026) & (M Units)

Table 139. Middle East & Africa High Voltage Super Junction MOSFET Sales Quantity by Type (2027-2032) & (M Units)

Table 140. Middle East & Africa High Voltage Super Junction MOSFET Sales Quantity by Application (2021-2026) & (M Units)

Table 141. Middle East & Africa High Voltage Super Junction MOSFET Sales Quantity by Application (2027-2032) & (M Units)

Table 142. Middle East & Africa High Voltage Super Junction MOSFET Sales Quantity by Country (2021-2026) & (M Units)

Table 143. Middle East & Africa High Voltage Super Junction MOSFET Sales Quantity by Country (2027-2032) & (M Units)

Table 144. Middle East & Africa High Voltage Super Junction MOSFET Consumption Value by Country (2021-2026) & (USD Million)

Table 145. Middle East & Africa High Voltage Super Junction MOSFET Consumption Value by Country (2027-2032) & (USD Million)

Table 146. High Voltage Super Junction MOSFET Raw Material

Table 147. Key Manufacturers of High Voltage Super Junction MOSFET Raw Materials

Table 148. High Voltage Super Junction MOSFET Typical Distributors

Table 149. High Voltage Super Junction MOSFET Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. High Voltage Super Junction MOSFET Picture
- Figure 2. Global High Voltage Super Junction MOSFET Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global High Voltage Super Junction MOSFET Revenue Market Share by Type in 2025
- Figure 4. Below 500V Examples
- Figure 5. 500V to 600V Examples
- Figure 6. Above 600V Examples
- Figure 7. Global High Voltage Super Junction MOSFET Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 8. Global High Voltage Super Junction MOSFET Revenue Market Share by Application in 2025
- Figure 9. Power Supply Application Examples
- Figure 10. Industrial Application Examples
- Figure 11. Lighting Application Examples
- Figure 12. Consumer Electronics Examples
- Figure 13. Others Examples
- Figure 14. Global High Voltage Super Junction MOSFET Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 15. Global High Voltage Super Junction MOSFET Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 16. Global High Voltage Super Junction MOSFET Sales Quantity (2021-2032) & (M Units)
- Figure 17. Global High Voltage Super Junction MOSFET Price (2021-2032) & (USD/Unit)
- Figure 18. Global High Voltage Super Junction MOSFET Sales Quantity Market Share by Manufacturer in 2025
- Figure 19. Global High Voltage Super Junction MOSFET Revenue Market Share by Manufacturer in 2025
- Figure 20. Producer Shipments of High Voltage Super Junction MOSFET by Manufacturer Sales (\$MM) and Market Share (%): 2025
- Figure 21. Top 3 High Voltage Super Junction MOSFET Manufacturer (Revenue) Market Share in 2025
- Figure 22. Top 6 High Voltage Super Junction MOSFET Manufacturer (Revenue) Market Share in 2025

Figure 23. Global High Voltage Super Junction MOSFET Sales Quantity Market Share by Region (2021-2032)

Figure 24. Global High Voltage Super Junction MOSFET Consumption Value Market Share by Region (2021-2032)

Figure 25. North America High Voltage Super Junction MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 26. Europe High Voltage Super Junction MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 27. Asia-Pacific High Voltage Super Junction MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 28. South America High Voltage Super Junction MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 29. Middle East & Africa High Voltage Super Junction MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 30. Global High Voltage Super Junction MOSFET Sales Quantity Market Share by Type (2021-2032)

Figure 31. Global High Voltage Super Junction MOSFET Consumption Value Market Share by Type (2021-2032)

Figure 32. Global High Voltage Super Junction MOSFET Average Price by Type (2021-2032) & (USD/Unit)

Figure 33. Global High Voltage Super Junction MOSFET Sales Quantity Market Share by Application (2021-2032)

Figure 34. Global High Voltage Super Junction MOSFET Revenue Market Share by Application (2021-2032)

Figure 35. Global High Voltage Super Junction MOSFET Average Price by Application (2021-2032) & (USD/Unit)

Figure 36. North America High Voltage Super Junction MOSFET Sales Quantity Market Share by Type (2021-2032)

Figure 37. North America High Voltage Super Junction MOSFET Sales Quantity Market Share by Application (2021-2032)

Figure 38. North America High Voltage Super Junction MOSFET Sales Quantity Market Share by Country (2021-2032)

Figure 39. North America High Voltage Super Junction MOSFET Consumption Value Market Share by Country (2021-2032)

Figure 40. United States High Voltage Super Junction MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 41. Canada High Voltage Super Junction MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 42. Mexico High Voltage Super Junction MOSFET Consumption Value

(2021-2032) & (USD Million)

Figure 43. Europe High Voltage Super Junction MOSFET Sales Quantity Market Share by Type (2021-2032)

Figure 44. Europe High Voltage Super Junction MOSFET Sales Quantity Market Share by Application (2021-2032)

Figure 45. Europe High Voltage Super Junction MOSFET Sales Quantity Market Share by Country (2021-2032)

Figure 46. Europe High Voltage Super Junction MOSFET Consumption Value Market Share by Country (2021-2032)

Figure 47. Germany High Voltage Super Junction MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 48. France High Voltage Super Junction MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 49. United Kingdom High Voltage Super Junction MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 50. Russia High Voltage Super Junction MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 51. Italy High Voltage Super Junction MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 52. Asia-Pacific High Voltage Super Junction MOSFET Sales Quantity Market Share by Type (2021-2032)

Figure 53. Asia-Pacific High Voltage Super Junction MOSFET Sales Quantity Market Share by Application (2021-2032)

Figure 54. Asia-Pacific High Voltage Super Junction MOSFET Sales Quantity Market Share by Region (2021-2032)

Figure 55. Asia-Pacific High Voltage Super Junction MOSFET Consumption Value Market Share by Region (2021-2032)

Figure 56. China High Voltage Super Junction MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 57. Japan High Voltage Super Junction MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 58. South Korea High Voltage Super Junction MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 59. India High Voltage Super Junction MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 60. Southeast Asia High Voltage Super Junction MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 61. Australia High Voltage Super Junction MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 62. South America High Voltage Super Junction MOSFET Sales Quantity Market Share by Type (2021-2032)

Figure 63. South America High Voltage Super Junction MOSFET Sales Quantity Market Share by Application (2021-2032)

Figure 64. South America High Voltage Super Junction MOSFET Sales Quantity Market Share by Country (2021-2032)

Figure 65. South America High Voltage Super Junction MOSFET Consumption Value Market Share by Country (2021-2032)

Figure 66. Brazil High Voltage Super Junction MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 67. Argentina High Voltage Super Junction MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 68. Middle East & Africa High Voltage Super Junction MOSFET Sales Quantity Market Share by Type (2021-2032)

Figure 69. Middle East & Africa High Voltage Super Junction MOSFET Sales Quantity Market Share by Application (2021-2032)

Figure 70. Middle East & Africa High Voltage Super Junction MOSFET Sales Quantity Market Share by Country (2021-2032)

Figure 71. Middle East & Africa High Voltage Super Junction MOSFET Consumption Value Market Share by Country (2021-2032)

Figure 72. Turkey High Voltage Super Junction MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 73. Egypt High Voltage Super Junction MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 74. Saudi Arabia High Voltage Super Junction MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 75. South Africa High Voltage Super Junction MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 76. High Voltage Super Junction MOSFET Market Drivers

Figure 77. High Voltage Super Junction MOSFET Market Restraints

Figure 78. High Voltage Super Junction MOSFET Market Trends

Figure 79. Porters Five Forces Analysis

Figure 80. Manufacturing Cost Structure Analysis of High Voltage Super Junction MOSFET in 2025

Figure 81. Manufacturing Process Analysis of High Voltage Super Junction MOSFET

Figure 82. High Voltage Super Junction MOSFET Industrial Chain

Figure 83. Sales Channel: Direct to End-User vs Distributors

Figure 84. Direct Channel Pros & Cons

Figure 85. Indirect Channel Pros & Cons

Figure 86. Methodology

Figure 87. Research Process and Data Source

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