

Global N-Channel Power MOSFET Market Research Report 2026(Status and Outlook)

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Abstracts

N-channel power MOSFET is a metal oxide semiconductor field effect transistor with an N-type conductive channel. It mainly controls the current between the drain and the source through the gate voltage, and has the characteristics of high input impedance, low on-resistance, and fast switching speed.

The global N-Channel Power MOSFET market size was estimated at USD 5027.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 6.50% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global N-Channel Power MOSFET market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global N-Channel Power MOSFET market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the N-Channel Power MOSFET market.

Global N-Channel Power MOSFET Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Infineon
ON Semiconductor
STMicroelectronics
Toshiba Electronics
Vishay
Sensitron Semiconductor
Nexperia
Onsemi
Microchip Technology
NXP
SLKOR Semiconductor
Vbsemi
TI
Greegoo
Semipower

Market Segmentation (by Type)

N-channel Enhancement Mode MOSFET

N-channel Depletion Mode MOSFET

Market Segmentation (by Application)

Automotive Electronics

Power Management

Industrial Control

Consumer Electronics

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the N-Channel Power MOSFET Market

Overview of the regional outlook of the N-Channel Power MOSFET Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the N-Channel Power MOSFET Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of N-Channel Power MOSFET, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development

potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of N-Channel Power MOSFET

1.2 Key Market Segments

1.2.1 N-Channel Power MOSFET Segment by Type

1.2.2 N-Channel Power MOSFET Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 N-CHANNEL POWER MOSFET MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global N-Channel Power MOSFET Market Size (M USD) Estimates and Forecasts (2020-2035)

2.1.2 Global N-Channel Power MOSFET Sales Estimates and Forecasts (2020-2035)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 N-CHANNEL POWER MOSFET MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global N-Channel Power MOSFET Product Life Cycle

3.3 Global N-Channel Power MOSFET Sales by Manufacturers (2020-2025)

3.4 Global N-Channel Power MOSFET Revenue Market Share by Manufacturers (2020-2025)

3.5 N-Channel Power MOSFET Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global N-Channel Power MOSFET Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 N-Channel Power MOSFET Market Competitive Situation and Trends

3.8.1 N-Channel Power MOSFET Market Concentration Rate

3.8.2 Global 5 and 10 Largest N-Channel Power MOSFET Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 N-CHANNEL POWER MOSFET INDUSTRY CHAIN ANALYSIS

4.1 N-Channel Power MOSFET Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF N-CHANNEL POWER MOSFET MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global N-Channel Power MOSFET Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to N-Channel Power MOSFET Market

5.7 ESG Ratings of Leading Companies

6 N-CHANNEL POWER MOSFET MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global N-Channel Power MOSFET Sales Market Share by Type (2020-2025)

6.3 Global N-Channel Power MOSFET Market Size by Type (2020-2025)

6.4 Global N-Channel Power MOSFET Price by Type (2020-2025)

7 N-CHANNEL POWER MOSFET MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global N-Channel Power MOSFET Market Sales by Application (2020-2025)
- 7.3 Global N-Channel Power MOSFET Market Size (M USD) by Application (2020-2025)
- 7.4 Global N-Channel Power MOSFET Sales Growth Rate by Application (2020-2025)

8 N-CHANNEL POWER MOSFET MARKET SALES BY REGION

- 8.1 Global N-Channel Power MOSFET Sales by Region
 - 8.1.1 Global N-Channel Power MOSFET Sales by Region
 - 8.1.2 Global N-Channel Power MOSFET Sales Market Share by Region
- 8.2 Global N-Channel Power MOSFET Market Size by Region
 - 8.2.1 Global N-Channel Power MOSFET Market Size by Region
 - 8.2.2 Global N-Channel Power MOSFET Market Size by Region
- 8.3 North America
 - 8.3.1 North America N-Channel Power MOSFET Sales by Country
 - 8.3.2 North America N-Channel Power MOSFET Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe N-Channel Power MOSFET Sales by Country
 - 8.4.2 Europe N-Channel Power MOSFET Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview
 - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
 - 8.5.1 Asia Pacific N-Channel Power MOSFET Sales by Region
 - 8.5.2 Asia Pacific N-Channel Power MOSFET Market Size by Region
 - 8.5.3 China Market Overview
 - 8.5.4 Japan Market Overview
 - 8.5.5 South Korea Market Overview
 - 8.5.6 India Market Overview
 - 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America N-Channel Power MOSFET Sales by Country

8.6.2 South America N-Channel Power MOSFET Market Size by Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

8.7.1 Middle East and Africa N-Channel Power MOSFET Sales by Region

8.7.2 Middle East and Africa N-Channel Power MOSFET Market Size by Region

8.7.3 Saudi Arabia Market Overview

8.7.4 UAE Market Overview

8.7.5 Egypt Market Overview

8.7.6 Nigeria Market Overview

8.7.7 South Africa Market Overview

9 N-CHANNEL POWER MOSFET MARKET PRODUCTION BY REGION

9.1 Global Production of N-Channel Power MOSFET by Region(2020-2025)

9.2 Global N-Channel Power MOSFET Revenue Market Share by Region (2020-2025)

9.3 Global N-Channel Power MOSFET Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America N-Channel Power MOSFET Production

9.4.1 North America N-Channel Power MOSFET Production Growth Rate (2020-2025)

9.4.2 North America N-Channel Power MOSFET Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe N-Channel Power MOSFET Production

9.5.1 Europe N-Channel Power MOSFET Production Growth Rate (2020-2025)

9.5.2 Europe N-Channel Power MOSFET Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan N-Channel Power MOSFET Production (2020-2025)

9.6.1 Japan N-Channel Power MOSFET Production Growth Rate (2020-2025)

9.6.2 Japan N-Channel Power MOSFET Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China N-Channel Power MOSFET Production (2020-2025)

9.7.1 China N-Channel Power MOSFET Production Growth Rate (2020-2025)

9.7.2 China N-Channel Power MOSFET Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Infineon

- 10.1.1 Infineon Basic Information
- 10.1.2 Infineon N-Channel Power MOSFET Product Overview
- 10.1.3 Infineon N-Channel Power MOSFET Product Market Performance
- 10.1.4 Infineon Business Overview
- 10.1.5 Infineon SWOT Analysis
- 10.1.6 Infineon Recent Developments
- 10.2 ON Semiconductor
 - 10.2.1 ON Semiconductor Basic Information
 - 10.2.2 ON Semiconductor N-Channel Power MOSFET Product Overview
 - 10.2.3 ON Semiconductor N-Channel Power MOSFET Product Market Performance
 - 10.2.4 ON Semiconductor Business Overview
 - 10.2.5 ON Semiconductor SWOT Analysis
 - 10.2.6 ON Semiconductor Recent Developments
- 10.3 STMicroelectronics
 - 10.3.1 STMicroelectronics Basic Information
 - 10.3.2 STMicroelectronics N-Channel Power MOSFET Product Overview
 - 10.3.3 STMicroelectronics N-Channel Power MOSFET Product Market Performance
 - 10.3.4 STMicroelectronics Business Overview
 - 10.3.5 STMicroelectronics SWOT Analysis
 - 10.3.6 STMicroelectronics Recent Developments
- 10.4 Toshiba Electronics
 - 10.4.1 Toshiba Electronics Basic Information
 - 10.4.2 Toshiba Electronics N-Channel Power MOSFET Product Overview
 - 10.4.3 Toshiba Electronics N-Channel Power MOSFET Product Market Performance
 - 10.4.4 Toshiba Electronics Business Overview
 - 10.4.5 Toshiba Electronics Recent Developments
- 10.5 Vishay
 - 10.5.1 Vishay Basic Information
 - 10.5.2 Vishay N-Channel Power MOSFET Product Overview
 - 10.5.3 Vishay N-Channel Power MOSFET Product Market Performance
 - 10.5.4 Vishay Business Overview
 - 10.5.5 Vishay Recent Developments
- 10.6 Sensitron Semiconductor
 - 10.6.1 Sensitron Semiconductor Basic Information
 - 10.6.2 Sensitron Semiconductor N-Channel Power MOSFET Product Overview
 - 10.6.3 Sensitron Semiconductor N-Channel Power MOSFET Product Market Performance
 - 10.6.4 Sensitron Semiconductor Business Overview
 - 10.6.5 Sensitron Semiconductor Recent Developments

10.7 Nexperia

10.7.1 Nexperia Basic Information

10.7.2 Nexperia N-Channel Power MOSFET Product Overview

10.7.3 Nexperia N-Channel Power MOSFET Product Market Performance

10.7.4 Nexperia Business Overview

10.7.5 Nexperia Recent Developments

10.8 Onsemi

10.8.1 Onsemi Basic Information

10.8.2 Onsemi N-Channel Power MOSFET Product Overview

10.8.3 Onsemi N-Channel Power MOSFET Product Market Performance

10.8.4 Onsemi Business Overview

10.8.5 Onsemi Recent Developments

10.9 Microchip Technology

10.9.1 Microchip Technology Basic Information

10.9.2 Microchip Technology N-Channel Power MOSFET Product Overview

10.9.3 Microchip Technology N-Channel Power MOSFET Product Market

Performance

10.9.4 Microchip Technology Business Overview

10.9.5 Microchip Technology Recent Developments

10.10 NXP

10.10.1 NXP Basic Information

10.10.2 NXP N-Channel Power MOSFET Product Overview

10.10.3 NXP N-Channel Power MOSFET Product Market Performance

10.10.4 NXP Business Overview

10.10.5 NXP Recent Developments

10.11 SLKOR Semiconductor

10.11.1 SLKOR Semiconductor Basic Information

10.11.2 SLKOR Semiconductor N-Channel Power MOSFET Product Overview

10.11.3 SLKOR Semiconductor N-Channel Power MOSFET Product Market

Performance

10.11.4 SLKOR Semiconductor Business Overview

10.11.5 SLKOR Semiconductor Recent Developments

10.12 Vbsemi

10.12.1 Vbsemi Basic Information

10.12.2 Vbsemi N-Channel Power MOSFET Product Overview

10.12.3 Vbsemi N-Channel Power MOSFET Product Market Performance

10.12.4 Vbsemi Business Overview

10.12.5 Vbsemi Recent Developments

10.13 TI

- 10.13.1 TI Basic Information
- 10.13.2 TI N-Channel Power MOSFET Product Overview
- 10.13.3 TI N-Channel Power MOSFET Product Market Performance
- 10.13.4 TI Business Overview
- 10.13.5 TI Recent Developments
- 10.14 Greegoo
 - 10.14.1 Greegoo Basic Information
 - 10.14.2 Greegoo N-Channel Power MOSFET Product Overview
 - 10.14.3 Greegoo N-Channel Power MOSFET Product Market Performance
 - 10.14.4 Greegoo Business Overview
 - 10.14.5 Greegoo Recent Developments
- 10.15 Semipower
 - 10.15.1 Semipower Basic Information
 - 10.15.2 Semipower N-Channel Power MOSFET Product Overview
 - 10.15.3 Semipower N-Channel Power MOSFET Product Market Performance
 - 10.15.4 Semipower Business Overview
 - 10.15.5 Semipower Recent Developments

11 N-CHANNEL POWER MOSFET MARKET FORECAST BY REGION

- 11.1 Global N-Channel Power MOSFET Market Size Forecast
- 11.2 Global N-Channel Power MOSFET Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe N-Channel Power MOSFET Market Size Forecast by Country
 - 11.2.3 Asia Pacific N-Channel Power MOSFET Market Size Forecast by Region
 - 11.2.4 South America N-Channel Power MOSFET Market Size Forecast by Country
 - 11.2.5 Middle East and Africa Forecasted Sales of N-Channel Power MOSFET by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

- 12.1 Global N-Channel Power MOSFET Market Forecast by Type (2026-2035)
 - 12.1.1 Global Forecasted Sales of N-Channel Power MOSFET by Type (2026-2035)
 - 12.1.2 Global N-Channel Power MOSFET Market Size Forecast by Type (2026-2035)
 - 12.1.3 Global Forecasted Price of N-Channel Power MOSFET by Type (2026-2035)
- 12.2 Global N-Channel Power MOSFET Market Forecast by Application (2026-2035)
 - 12.2.1 Global N-Channel Power MOSFET Sales (K Units) Forecast by Application
 - 12.2.2 Global N-Channel Power MOSFET Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global N-Channel Power MOSFET Market Size by Type (M USD)

Table 4. Global N-Channel Power MOSFET Market Size by Application

Table 5. N-Channel Power MOSFET Market Size Comparison by Region (M USD)

Table 6. Global N-Channel Power MOSFET Sales (K Units) by Manufacturers
(2020-2025)

Table 7. Global N-Channel Power MOSFET Sales Market Share by Manufacturers
(2020-2025)

Table 8. Global N-Channel Power MOSFET Revenue (M USD) by Manufacturers
(2020-2025)

Table 9. Global N-Channel Power MOSFET Revenue Share by Manufacturers
(2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in N-Channel Power MOSFET as of 2025)

Table 11. Global Market N-Channel Power MOSFET Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global N-Channel Power MOSFET Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. N-Channel Power MOSFET Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global N-Channel Power MOSFET Sales by Type (K Units)

Table 27. Global N-Channel Power MOSFET Market Size by Type (M USD)

- Table 28. Global N-Channel Power MOSFET Sales (K Units) by Type (2020-2025)
- Table 29. Global N-Channel Power MOSFET Sales Market Share by Type (2020-2025)
- Table 30. Global N-Channel Power MOSFET Market Size (M USD) by Type (2020-2025)
- Table 31. Global N-Channel Power MOSFET Market Share by Type (2020-2025)
- Table 32. Global N-Channel Power MOSFET Price (USD/Unit) by Type (2020-2025)
- Table 33. Global N-Channel Power MOSFET Sales (K Units) by Application
- Table 34. Global N-Channel Power MOSFET Market Size by Application
- Table 35. Global N-Channel Power MOSFET Sales by Application (2020-2025) & (K Units)
- Table 36. Global N-Channel Power MOSFET Sales Market Share by Application (2020-2025)
- Table 37. Global N-Channel Power MOSFET Market Size by Application (2020-2025) & (M USD)
- Table 38. Global N-Channel Power MOSFET Market Share by Application (2020-2025)
- Table 39. Global N-Channel Power MOSFET Sales Growth Rate by Application (2020-2025)
- Table 40. Global N-Channel Power MOSFET Sales by Region (2020-2025) & (K Units)
- Table 41. Global N-Channel Power MOSFET Sales Market Share by Region (2020-2025)
- Table 42. Global N-Channel Power MOSFET Market Size by Region (2020-2025) & (M USD)
- Table 43. Global N-Channel Power MOSFET Market Size by Region (2020-2025)
- Table 44. North America N-Channel Power MOSFET Sales by Country (2020-2025) & (K Units)
- Table 45. North America N-Channel Power MOSFET Market Size by Country (2020-2025) & (M USD)
- Table 46. Europe N-Channel Power MOSFET Sales by Country (2020-2025) & (K Units)
- Table 47. Europe N-Channel Power MOSFET Market Size by Country (2020-2025) & (M USD)
- Table 48. Asia Pacific N-Channel Power MOSFET Sales by Region (2020-2025) & (K Units)
- Table 49. Asia Pacific N-Channel Power MOSFET Market Size by Region (2020-2025) & (M USD)
- Table 50. South America N-Channel Power MOSFET Sales by Country (2020-2025) & (K Units)
- Table 51. South America N-Channel Power MOSFET Market Size by Country (2020-2025) & (M USD)

Table 52. Middle East and Africa N-Channel Power MOSFET Sales by Region (2020-2025) & (K Units)

Table 53. Middle East and Africa N-Channel Power MOSFET Market Size by Region (2020-2025) & (M USD)

Table 54. Global N-Channel Power MOSFET Production (K Units) by Region(2020-2025)

Table 55. Global N-Channel Power MOSFET Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global N-Channel Power MOSFET Revenue Market Share by Region (2020-2025)

Table 57. Global N-Channel Power MOSFET Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America N-Channel Power MOSFET Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe N-Channel Power MOSFET Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan N-Channel Power MOSFET Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China N-Channel Power MOSFET Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. Infineon Basic Information

Table 63. Infineon N-Channel Power MOSFET Product Overview

Table 64. Infineon N-Channel Power MOSFET Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. Infineon Business Overview

Table 66. Infineon SWOT Analysis

Table 67. Infineon Recent Developments

Table 68. ON Semiconductor Basic Information

Table 69. ON Semiconductor N-Channel Power MOSFET Product Overview

Table 70. ON Semiconductor N-Channel Power MOSFET Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. ON Semiconductor Business Overview

Table 72. ON Semiconductor SWOT Analysis

Table 73. ON Semiconductor Recent Developments

Table 74. STMicroelectronics Basic Information

Table 75. STMicroelectronics N-Channel Power MOSFET Product Overview

Table 76. STMicroelectronics N-Channel Power MOSFET Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. STMicroelectronics Business Overview

- Table 78. STMicroelectronics SWOT Analysis
- Table 79. STMicroelectronics Recent Developments
- Table 80. Toshiba Electronics Basic Information
- Table 81. Toshiba Electronics N-Channel Power MOSFET Product Overview
- Table 82. Toshiba Electronics N-Channel Power MOSFET Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 83. Toshiba Electronics Business Overview
- Table 84. Toshiba Electronics Recent Developments
- Table 85. Vishay Basic Information
- Table 86. Vishay N-Channel Power MOSFET Product Overview
- Table 87. Vishay N-Channel Power MOSFET Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 88. Vishay Business Overview
- Table 89. Vishay Recent Developments
- Table 90. Sensitron Semiconductor Basic Information
- Table 91. Sensitron Semiconductor N-Channel Power MOSFET Product Overview
- Table 92. Sensitron Semiconductor N-Channel Power MOSFET Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 93. Sensitron Semiconductor Business Overview
- Table 94. Sensitron Semiconductor Recent Developments
- Table 95. Nexperia Basic Information
- Table 96. Nexperia N-Channel Power MOSFET Product Overview
- Table 97. Nexperia N-Channel Power MOSFET Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 98. Nexperia Business Overview
- Table 99. Nexperia Recent Developments
- Table 100. Onsemi Basic Information
- Table 101. Onsemi N-Channel Power MOSFET Product Overview
- Table 102. Onsemi N-Channel Power MOSFET Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 103. Onsemi Business Overview
- Table 104. Onsemi Recent Developments
- Table 105. Microchip Technology Basic Information
- Table 106. Microchip Technology N-Channel Power MOSFET Product Overview
- Table 107. Microchip Technology N-Channel Power MOSFET Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 108. Microchip Technology Business Overview
- Table 109. Microchip Technology Recent Developments
- Table 110. NXP Basic Information

- Table 111. NXP N-Channel Power MOSFET Product Overview
- Table 112. NXP N-Channel Power MOSFET Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 113. NXP Business Overview
- Table 114. NXP Recent Developments
- Table 115. SLKOR Semiconductor Basic Information
- Table 116. SLKOR Semiconductor N-Channel Power MOSFET Product Overview
- Table 117. SLKOR Semiconductor N-Channel Power MOSFET Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 118. SLKOR Semiconductor Business Overview
- Table 119. SLKOR Semiconductor Recent Developments
- Table 120. Vbsemi Basic Information
- Table 121. Vbsemi N-Channel Power MOSFET Product Overview
- Table 122. Vbsemi N-Channel Power MOSFET Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 123. Vbsemi Business Overview
- Table 124. Vbsemi Recent Developments
- Table 125. TI Basic Information
- Table 126. TI N-Channel Power MOSFET Product Overview
- Table 127. TI N-Channel Power MOSFET Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 128. TI Business Overview
- Table 129. TI Recent Developments
- Table 130. Greegoo Basic Information
- Table 131. Greegoo N-Channel Power MOSFET Product Overview
- Table 132. Greegoo N-Channel Power MOSFET Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 133. Greegoo Business Overview
- Table 134. Greegoo Recent Developments
- Table 135. Semipower Basic Information
- Table 136. Semipower N-Channel Power MOSFET Product Overview
- Table 137. Semipower N-Channel Power MOSFET Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 138. Semipower Business Overview
- Table 139. Semipower Recent Developments
- Table 140. Global N-Channel Power MOSFET Sales Forecast by Region (2026-2035) & (K Units)
- Table 141. Global N-Channel Power MOSFET Market Size Forecast by Region (2026-2035) & (M USD)

Table 142. North America N-Channel Power MOSFET Sales Forecast by Country (2026-2035) & (K Units)

Table 143. North America N-Channel Power MOSFET Market Size Forecast by Country (2026-2035) & (M USD)

Table 144. Europe N-Channel Power MOSFET Sales Forecast by Country (2026-2035) & (K Units)

Table 145. Europe N-Channel Power MOSFET Market Size Forecast by Country (2026-2035) & (M USD)

Table 146. Asia Pacific N-Channel Power MOSFET Sales Forecast by Region (2026-2035) & (K Units)

Table 147. Asia Pacific N-Channel Power MOSFET Market Size Forecast by Region (2026-2035) & (M USD)

Table 148. South America N-Channel Power MOSFET Sales Forecast by Country (2026-2035) & (K Units)

Table 149. South America N-Channel Power MOSFET Market Size Forecast by Country (2026-2035) & (M USD)

Table 150. Middle East and Africa N-Channel Power MOSFET Sales Forecast by Country (2026-2035) & (Units)

Table 151. Middle East and Africa N-Channel Power MOSFET Market Size Forecast by Country (2026-2035) & (M USD)

Table 152. Global N-Channel Power MOSFET Sales Forecast by Type (2026-2035) & (K Units)

Table 153. Global N-Channel Power MOSFET Market Size Forecast by Type (2026-2035) & (M USD)

Table 154. Global N-Channel Power MOSFET Price Forecast by Type (2026-2035) & (USD/Unit)

Table 155. Global N-Channel Power MOSFET Sales (K Units) Forecast by Application (2026-2035)

Table 156. Global N-Channel Power MOSFET Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of N-Channel Power MOSFET
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global N-Channel Power MOSFET Market Size (M USD), 2025-2035
- Figure 5. Global N-Channel Power MOSFET Market Size (M USD) (2020-2035)
- Figure 6. Global N-Channel Power MOSFET Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. N-Channel Power MOSFET Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global N-Channel Power MOSFET Product Life Cycle
- Figure 13. N-Channel Power MOSFET Sales Share by Manufacturers in 2025
- Figure 14. Global N-Channel Power MOSFET Revenue Share by Manufacturers in 2025
- Figure 15. N-Channel Power MOSFET Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market N-Channel Power MOSFET Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by N-Channel Power MOSFET Revenue in 2025
- Figure 18. Industry Chain Map of N-Channel Power MOSFET
- Figure 19. Global N-Channel Power MOSFET Market PEST Analysis
- Figure 20. Global N-Channel Power MOSFET Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global N-Channel Power MOSFET Market Share by Type
- Figure 27. Sales Market Share of N-Channel Power MOSFET by Type (2020-2025)
- Figure 28. Sales Market Share of N-Channel Power MOSFET by Type in 2025
- Figure 29. Market Share of N-Channel Power MOSFET by Type (2020-2025)
- Figure 30. Market Share of N-Channel Power MOSFET by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

- Figure 32. Global N-Channel Power MOSFET Market Share by Application
- Figure 33. Global N-Channel Power MOSFET Sales Market Share by Application (2020-2025)
- Figure 34. Global N-Channel Power MOSFET Sales Market Share by Application in 2025
- Figure 35. Global N-Channel Power MOSFET Market Share by Application (2020-2025)
- Figure 36. Global N-Channel Power MOSFET Market Share by Application in 2025
- Figure 37. Global N-Channel Power MOSFET Sales Growth Rate by Application (2020-2025)
- Figure 38. Global N-Channel Power MOSFET Sales Market Share by Region (2020-2025)
- Figure 39. Global N-Channel Power MOSFET Market Size by Region (2020-2025)
- Figure 40. North America N-Channel Power MOSFET Sales and Growth Rate (2020-2025) & (K Units)
- Figure 41. North America N-Channel Power MOSFET Sales and Growth Rate (2020-2025) & (K Units)
- Figure 42. North America N-Channel Power MOSFET Sales Market Share by Country in 2024
- Figure 43. North America N-Channel Power MOSFET Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America N-Channel Power MOSFET Market Size by Country in 2024
- Figure 45. U.S. N-Channel Power MOSFET Sales and Growth Rate (2020-2025) & (K Units)
- Figure 46. U.S. N-Channel Power MOSFET Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada N-Channel Power MOSFET Sales (K Units) and Growth Rate (2020-2025)
- Figure 48. Canada N-Channel Power MOSFET Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico N-Channel Power MOSFET Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico N-Channel Power MOSFET Market Size (Units) and Growth Rate (2020-2025)
- Figure 51. Europe N-Channel Power MOSFET Sales and Growth Rate (2020-2025) & (K Units)
- Figure 52. Europe N-Channel Power MOSFET Sales Market Share by Country in 2024
- Figure 53. Europe N-Channel Power MOSFET Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 54. Europe N-Channel Power MOSFET Market Size by Country in 2024

Figure 55. Germany N-Channel Power MOSFET Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany N-Channel Power MOSFET Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France N-Channel Power MOSFET Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France N-Channel Power MOSFET Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. N-Channel Power MOSFET Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. N-Channel Power MOSFET Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy N-Channel Power MOSFET Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy N-Channel Power MOSFET Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain N-Channel Power MOSFET Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain N-Channel Power MOSFET Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific N-Channel Power MOSFET Sales and Growth Rate (K Units)

Figure 66. Asia Pacific N-Channel Power MOSFET Sales Market Share by Region in 2024

Figure 67. Asia Pacific N-Channel Power MOSFET Market Size by Region in 2024

Figure 68. China N-Channel Power MOSFET Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China N-Channel Power MOSFET Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan N-Channel Power MOSFET Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan N-Channel Power MOSFET Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea N-Channel Power MOSFET Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea N-Channel Power MOSFET Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India N-Channel Power MOSFET Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India N-Channel Power MOSFET Market Size and Growth Rate (2020-2025)

& (M USD)

Figure 76. Southeast Asia N-Channel Power MOSFET Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia N-Channel Power MOSFET Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America N-Channel Power MOSFET Sales and Growth Rate (K Units)

Figure 79. South America N-Channel Power MOSFET Sales Market Share by Country in 2024

Figure 80. South America N-Channel Power MOSFET Market Size and Growth Rate (M USD)

Figure 81. South America N-Channel Power MOSFET Market Size by Country in 2024

Figure 82. Brazil N-Channel Power MOSFET Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil N-Channel Power MOSFET Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina N-Channel Power MOSFET Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina N-Channel Power MOSFET Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia N-Channel Power MOSFET Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia N-Channel Power MOSFET Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa N-Channel Power MOSFET Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa N-Channel Power MOSFET Sales Market Share by Region in 2024

Figure 90. Middle East and Africa N-Channel Power MOSFET Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa N-Channel Power MOSFET Market Size by Region in 2024

Figure 92. Saudi Arabia N-Channel Power MOSFET Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia N-Channel Power MOSFET Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE N-Channel Power MOSFET Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE N-Channel Power MOSFET Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt N-Channel Power MOSFET Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt N-Channel Power MOSFET Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria N-Channel Power MOSFET Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria N-Channel Power MOSFET Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa N-Channel Power MOSFET Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa N-Channel Power MOSFET Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global N-Channel Power MOSFET Production Market Share by Region (2020-2025)

Figure 103. North America N-Channel Power MOSFET Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe N-Channel Power MOSFET Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan N-Channel Power MOSFET Production (K Units) Growth Rate (2020-2025)

Figure 106. China N-Channel Power MOSFET Production (K Units) Growth Rate (2020-2025)

Figure 107. Global N-Channel Power MOSFET Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global N-Channel Power MOSFET Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global N-Channel Power MOSFET Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global N-Channel Power MOSFET Market Share Forecast by Type (2026-2035)

Figure 111. Global N-Channel Power MOSFET Sales Forecast by Application (2026-2035)

Figure 112. Global N-Channel Power MOSFET Market Share Forecast by Application (2026-2035)

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