

# Global Motor Driver Transistor Market Growth 2026-2032

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## Abstracts

The global Motor Driver Transistor market size is predicted to grow from US\$ 1027 million in 2025 to US\$ 1618 million in 2032; it is expected to grow at a CAGR of 6.7% from 2026 to 2032.

In 2025, the global production capacity of motor driver transistors was approximately 400 million units, while actual global production reached about 300 million units. The average market price was around US\$ 3.5 per unit, and the gross profit margin of the industry ranged between 25% and 45%. Production is concentrated in regions with advanced semiconductor manufacturing infrastructure.

Motor driver transistors are semiconductor devices used to control the voltage and current supplied to electric motors. They enable precise regulation of motor speed, torque, and direction in applications such as robotics, electric vehicles, industrial automation, and consumer electronics. By switching rapidly between on and off states, these transistors efficiently manage power delivery while minimizing energy loss and heat generation, ensuring reliable motor performance.

The industrial chain of motor driver transistors includes upstream raw materials such as silicon wafers, dopants, and packaging compounds. The midstream consists of semiconductor fabrication, wafer processing, doping, photolithography, and assembly into transistor packages. Downstream applications include electric vehicle manufacturers, robotics companies, industrial automation systems, household appliances, and consumer electronics producers. Supporting services involve testing, quality assurance, thermal management solutions, and technical support for system integration.

The motor driver transistor market is expanding due to increased adoption of electric vehicles, industrial automation, and robotics. The need for energy-efficient, high-performance motor control solutions is driving demand for advanced transistors with faster switching speeds, lower on-resistance, and better thermal management. Integration with microcontrollers and power management ICs enhances system reliability and compactness. Growing investment in smart appliances and consumer electronics also supports market growth. Overall, manufacturers are focusing on improving device efficiency, durability, and miniaturization while maintaining cost competitiveness to meet diverse application requirements.

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

This Insight Report provides a comprehensive analysis of the global Motor Driver Transistor landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Motor Driver Transistor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Motor Driver Transistor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Motor Driver Transistor and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Motor Driver Transistor.

This report presents a comprehensive overview, market shares, and growth opportunities of Motor Driver Transistor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

BJT

MOSFET

IGBT

Segmentation by Voltage Rating:

Low Voltage

Medium Voltage

High Voltage

Segmentation by Application:

Automation Equipment

Home Appliance

Electric Vehicle

Robot

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

## APAC

China

Japan

Korea

Southeast Asia

India

Australia

## Europe

Germany

France

UK

Italy

Russia

## Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Infineon Technologies

ON Semiconductor

STMicroelectronics

Texas Instruments

Renesas

Vishay Intertechnology

Nexperia

Powerex

Proton?Electrotex

Dynex Semiconductor

BYD Microelectronics

CR Micro

Silan Microelectronics

Yangzhou Yangjie Electronic

Wuxi XinJieNeng

## Key Questions Addressed in this Report

What is the 10-year outlook for the global Motor Driver Transistor market?

What factors are driving Motor Driver Transistor market growth, globally and by region?

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

How do Motor Driver Transistor market opportunities vary by end market size?

How does Motor Driver Transistor break out by Type, by Application?

## Contents

### 1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

### 2 EXECUTIVE SUMMARY

#### 2.1 World Market Overview

- 2.1.1 Global Motor Driver Transistor Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Motor Driver Transistor by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Motor Driver Transistor by Country/Region, 2021, 2025 & 2032

#### 2.2 Motor Driver Transistor Segment by Type

- 2.2.1 BJT
- 2.2.2 MOSFET
- 2.2.3 IGBT
- 2.2.4 Motor Driver Transistor Sales by Type
  - 2.2.4.1 Global Motor Driver Transistor Sales Market Share by Type (2021-2026)
  - 2.2.4.2 Global Motor Driver Transistor Revenue and Market Share by Type (2021-2026)
  - 2.2.4.3 Global Motor Driver Transistor Sale Price by Type (2021-2026)

#### 2.3 Motor Driver Transistor Segment by Voltage Rating

- 2.3.1 Low Voltage
- 2.3.2 Medium Voltage
- 2.3.3 High Voltage
- 2.3.4 Motor Driver Transistor Sales by Voltage Rating
  - 2.3.4.1 Global Motor Driver Transistor Sales Market Share by Voltage Rating (2021-2026)
  - 2.3.4.2 Global Motor Driver Transistor Revenue and Market Share by Voltage Rating (2021-2026)

- 2.3.4.3 Global Motor Driver Transistor Sale Price by Voltage Rating (2021-2026)
- 2.4 Motor Driver Transistor Segment by Application
  - 2.4.1 Automation Equipment
  - 2.4.2 Home Appliance
  - 2.4.3 Electric Vehicle
  - 2.4.4 Robot
  - 2.4.5 Others
  - 2.4.6 Motor Driver Transistor Sales by Application
    - 2.4.6.1 Global Motor Driver Transistor Sale Market Share by Application (2021-2026)
    - 2.4.6.2 Global Motor Driver Transistor Revenue and Market Share by Application (2021-2026)
    - 2.4.6.3 Global Motor Driver Transistor Sale Price by Application (2021-2026)

### **3 GLOBAL BY COMPANY**

- 3.1 Global Motor Driver Transistor Breakdown Data by Company
  - 3.1.1 Global Motor Driver Transistor Annual Sales by Company (2021-2026)
  - 3.1.2 Global Motor Driver Transistor Sales Market Share by Company (2021-2026)
- 3.2 Global Motor Driver Transistor Annual Revenue by Company (2021-2026)
  - 3.2.1 Global Motor Driver Transistor Revenue by Company (2021-2026)
  - 3.2.2 Global Motor Driver Transistor Revenue Market Share by Company (2021-2026)
- 3.3 Global Motor Driver Transistor Sale Price by Company
- 3.4 Key Manufacturers Motor Driver Transistor Producing Area Distribution, Sales Area, Product Type
  - 3.4.1 Key Manufacturers Motor Driver Transistor Product Location Distribution
  - 3.4.2 Players Motor Driver Transistor Products Offered
- 3.5 Market Concentration Rate Analysis
  - 3.5.1 Competition Landscape Analysis
  - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

### **4 WORLD HISTORIC REVIEW FOR MOTOR DRIVER TRANSISTOR BY GEOGRAPHIC REGION**

- 4.1 World Historic Motor Driver Transistor Market Size by Geographic Region (2021-2026)
  - 4.1.1 Global Motor Driver Transistor Annual Sales by Geographic Region (2021-2026)
  - 4.1.2 Global Motor Driver Transistor Annual Revenue by Geographic Region

(2021-2026)

4.2 World Historic Motor Driver Transistor Market Size by Country/Region (2021-2026)

4.2.1 Global Motor Driver Transistor Annual Sales by Country/Region (2021-2026)

4.2.2 Global Motor Driver Transistor Annual Revenue by Country/Region (2021-2026)

4.3 Americas Motor Driver Transistor Sales Growth

4.4 APAC Motor Driver Transistor Sales Growth

4.5 Europe Motor Driver Transistor Sales Growth

4.6 Middle East & Africa Motor Driver Transistor Sales Growth

## **5 AMERICAS**

5.1 Americas Motor Driver Transistor Sales by Country

5.1.1 Americas Motor Driver Transistor Sales by Country (2021-2026)

5.1.2 Americas Motor Driver Transistor Revenue by Country (2021-2026)

5.2 Americas Motor Driver Transistor Sales by Type (2021-2026)

5.3 Americas Motor Driver Transistor Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

## **6 APAC**

6.1 APAC Motor Driver Transistor Sales by Region

6.1.1 APAC Motor Driver Transistor Sales by Region (2021-2026)

6.1.2 APAC Motor Driver Transistor Revenue by Region (2021-2026)

6.2 APAC Motor Driver Transistor Sales by Type (2021-2026)

6.3 APAC Motor Driver Transistor Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

## **7 EUROPE**

7.1 Europe Motor Driver Transistor by Country

- 7.1.1 Europe Motor Driver Transistor Sales by Country (2021-2026)
- 7.1.2 Europe Motor Driver Transistor Revenue by Country (2021-2026)
- 7.2 Europe Motor Driver Transistor Sales by Type (2021-2026)
- 7.3 Europe Motor Driver Transistor Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

## **8 MIDDLE EAST & AFRICA**

- 8.1 Middle East & Africa Motor Driver Transistor by Country
  - 8.1.1 Middle East & Africa Motor Driver Transistor Sales by Country (2021-2026)
  - 8.1.2 Middle East & Africa Motor Driver Transistor Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Motor Driver Transistor Sales by Type (2021-2026)
- 8.3 Middle East & Africa Motor Driver Transistor Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

## **9 MARKET DRIVERS, CHALLENGES AND TRENDS**

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

## **10 MANUFACTURING COST STRUCTURE ANALYSIS**

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Motor Driver Transistor
- 10.3 Manufacturing Process Analysis of Motor Driver Transistor
- 10.4 Industry Chain Structure of Motor Driver Transistor

## **11 MARKETING, DISTRIBUTORS AND CUSTOMER**

- 11.1 Sales Channel

- 11.1.1 Direct Channels
- 11.1.2 Indirect Channels
- 11.2 Motor Driver Transistor Distributors
- 11.3 Motor Driver Transistor Customer

## **12 WORLD FORECAST REVIEW FOR MOTOR DRIVER TRANSISTOR BY GEOGRAPHIC REGION**

- 12.1 Global Motor Driver Transistor Market Size Forecast by Region
  - 12.1.1 Global Motor Driver Transistor Forecast by Region (2027-2032)
  - 12.1.2 Global Motor Driver Transistor Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Motor Driver Transistor Forecast by Type (2027-2032)
- 12.7 Global Motor Driver Transistor Forecast by Application (2027-2032)

## **13 KEY PLAYERS ANALYSIS**

- 13.1 Infineon Technologies
  - 13.1.1 Infineon Technologies Company Information
  - 13.1.2 Infineon Technologies Motor Driver Transistor Product Portfolios and Specifications
  - 13.1.3 Infineon Technologies Motor Driver Transistor Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.1.4 Infineon Technologies Main Business Overview
  - 13.1.5 Infineon Technologies Latest Developments
- 13.2 ON Semiconductor
  - 13.2.1 ON Semiconductor Company Information
  - 13.2.2 ON Semiconductor Motor Driver Transistor Product Portfolios and Specifications
  - 13.2.3 ON Semiconductor Motor Driver Transistor Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.2.4 ON Semiconductor Main Business Overview
  - 13.2.5 ON Semiconductor Latest Developments
- 13.3 STMicroelectronics
  - 13.3.1 STMicroelectronics Company Information

### 13.3.2 STMicroelectronics Motor Driver Transistor Product Portfolios and Specifications

### 13.3.3 STMicroelectronics Motor Driver Transistor Sales, Revenue, Price and Gross Margin (2021-2026)

#### 13.3.4 STMicroelectronics Main Business Overview

#### 13.3.5 STMicroelectronics Latest Developments

### 13.4 Texas Instruments

#### 13.4.1 Texas Instruments Company Information

#### 13.4.2 Texas Instruments Motor Driver Transistor Product Portfolios and Specifications

### 13.4.3 Texas Instruments Motor Driver Transistor Sales, Revenue, Price and Gross Margin (2021-2026)

#### 13.4.4 Texas Instruments Main Business Overview

#### 13.4.5 Texas Instruments Latest Developments

### 13.5 Renesas

#### 13.5.1 Renesas Company Information

#### 13.5.2 Renesas Motor Driver Transistor Product Portfolios and Specifications

### 13.5.3 Renesas Motor Driver Transistor Sales, Revenue, Price and Gross Margin (2021-2026)

#### 13.5.4 Renesas Main Business Overview

#### 13.5.5 Renesas Latest Developments

### 13.6 Vishay Intertechnology

#### 13.6.1 Vishay Intertechnology Company Information

### 13.6.2 Vishay Intertechnology Motor Driver Transistor Product Portfolios and Specifications

### 13.6.3 Vishay Intertechnology Motor Driver Transistor Sales, Revenue, Price and Gross Margin (2021-2026)

#### 13.6.4 Vishay Intertechnology Main Business Overview

#### 13.6.5 Vishay Intertechnology Latest Developments

### 13.7 Nexperia

#### 13.7.1 Nexperia Company Information

#### 13.7.2 Nexperia Motor Driver Transistor Product Portfolios and Specifications

### 13.7.3 Nexperia Motor Driver Transistor Sales, Revenue, Price and Gross Margin (2021-2026)

#### 13.7.4 Nexperia Main Business Overview

#### 13.7.5 Nexperia Latest Developments

### 13.8 Powerex

#### 13.8.1 Powerex Company Information

#### 13.8.2 Powerex Motor Driver Transistor Product Portfolios and Specifications

#### 13.8.3 Powerex Motor Driver Transistor Sales, Revenue, Price and Gross Margin

(2021-2026)

13.8.4 Powerex Main Business Overview

13.8.5 Powerex Latest Developments

13.9 Proton?Electrotex

13.9.1 Proton?Electrotex Company Information

13.9.2 Proton?Electrotex Motor Driver Transistor Product Portfolios and Specifications

13.9.3 Proton?Electrotex Motor Driver Transistor Sales, Revenue, Price and Gross

Margin (2021-2026)

13.9.4 Proton?Electrotex Main Business Overview

13.9.5 Proton?Electrotex Latest Developments

13.10 Dynex Semiconductor

13.10.1 Dynex Semiconductor Company Information

13.10.2 Dynex Semiconductor Motor Driver Transistor Product Portfolios and

Specifications

13.10.3 Dynex Semiconductor Motor Driver Transistor Sales, Revenue, Price and

Gross Margin (2021-2026)

13.10.4 Dynex Semiconductor Main Business Overview

13.10.5 Dynex Semiconductor Latest Developments

13.11 BYD Microelectronics

13.11.1 BYD Microelectronics Company Information

13.11.2 BYD Microelectronics Motor Driver Transistor Product Portfolios and

Specifications

13.11.3 BYD Microelectronics Motor Driver Transistor Sales, Revenue, Price and

Gross Margin (2021-2026)

13.11.4 BYD Microelectronics Main Business Overview

13.11.5 BYD Microelectronics Latest Developments

13.12 CR Micro

13.12.1 CR Micro Company Information

13.12.2 CR Micro Motor Driver Transistor Product Portfolios and Specifications

13.12.3 CR Micro Motor Driver Transistor Sales, Revenue, Price and Gross Margin

(2021-2026)

13.12.4 CR Micro Main Business Overview

13.12.5 CR Micro Latest Developments

13.13 Silan Microelectronics

13.13.1 Silan Microelectronics Company Information

13.13.2 Silan Microelectronics Motor Driver Transistor Product Portfolios and

Specifications

13.13.3 Silan Microelectronics Motor Driver Transistor Sales, Revenue, Price and

Gross Margin (2021-2026)

- 13.13.4 Silan Microelectronics Main Business Overview
- 13.13.5 Silan Microelectronics Latest Developments
- 13.14 Yangzhou Yangjie Electronic
  - 13.14.1 Yangzhou Yangjie Electronic Company Information
  - 13.14.2 Yangzhou Yangjie Electronic Motor Driver Transistor Product Portfolios and Specifications
  - 13.14.3 Yangzhou Yangjie Electronic Motor Driver Transistor Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.14.4 Yangzhou Yangjie Electronic Main Business Overview
  - 13.14.5 Yangzhou Yangjie Electronic Latest Developments
- 13.15 Wuxi XinJieNeng
  - 13.15.1 Wuxi XinJieNeng Company Information
  - 13.15.2 Wuxi XinJieNeng Motor Driver Transistor Product Portfolios and Specifications
  - 13.15.3 Wuxi XinJieNeng Motor Driver Transistor Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.15.4 Wuxi XinJieNeng Main Business Overview
  - 13.15.5 Wuxi XinJieNeng Latest Developments

## **14 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES

Table 1. Motor Driver Transistor Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Motor Driver Transistor Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of BJT

Table 4. Major Players of MOSFET

Table 5. Major Players of IGBT

Table 6. Global Motor Driver Transistor Sales by Type (2021-2026) & (K Units)

Table 7. Global Motor Driver Transistor Sales Market Share by Type (2021-2026)

Table 8. Global Motor Driver Transistor Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Motor Driver Transistor Revenue Market Share by Type (2021-2026)

Table 10. Global Motor Driver Transistor Sale Price by Type (2021-2026) & (US\$/Unit)

Table 11. Major Players of Low Voltage

Table 12. Major Players of Medium Voltage

Table 13. Major Players of High Voltage

Table 14. Global Motor Driver Transistor Sales by Voltage Rating (2021-2026) & (K Units)

Table 15. Global Motor Driver Transistor Sales Market Share by Voltage Rating (2021-2026)

Table 16. Global Motor Driver Transistor Revenue by Voltage Rating (2021-2026) & (\$ million)

Table 17. Global Motor Driver Transistor Revenue Market Share by Voltage Rating (2021-2026)

Table 18. Global Motor Driver Transistor Sale Price by Voltage Rating (2021-2026) & (US\$/Unit)

Table 19. Global Motor Driver Transistor Sale by Application (2021-2026) & (K Units)

Table 20. Global Motor Driver Transistor Sale Market Share by Application (2021-2026)

Table 21. Global Motor Driver Transistor Revenue by Application (2021-2026) & (\$ million)

Table 22. Global Motor Driver Transistor Revenue Market Share by Application (2021-2026)

Table 23. Global Motor Driver Transistor Sale Price by Application (2021-2026) & (US\$/Unit)

Table 24. Global Motor Driver Transistor Sales by Company (2021-2026) & (K Units)

Table 25. Global Motor Driver Transistor Sales Market Share by Company (2021-2026)

Table 26. Global Motor Driver Transistor Revenue by Company (2021-2026) & (\$ millions)

Table 27. Global Motor Driver Transistor Revenue Market Share by Company (2021-2026)

Table 28. Global Motor Driver Transistor Sale Price by Company (2021-2026) & (US\$/Unit)

Table 29. Key Manufacturers Motor Driver Transistor Producing Area Distribution and Sales Area

Table 30. Players Motor Driver Transistor Products Offered

Table 31. Motor Driver Transistor Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 32. New Products and Potential Entrants

Table 33. Market M&A Activity & Strategy

Table 34. Global Motor Driver Transistor Sales by Geographic Region (2021-2026) & (K Units)

Table 35. Global Motor Driver Transistor Sales Market Share Geographic Region (2021-2026)

Table 36. Global Motor Driver Transistor Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 37. Global Motor Driver Transistor Revenue Market Share by Geographic Region (2021-2026)

Table 38. Global Motor Driver Transistor Sales by Country/Region (2021-2026) & (K Units)

Table 39. Global Motor Driver Transistor Sales Market Share by Country/Region (2021-2026)

Table 40. Global Motor Driver Transistor Revenue by Country/Region (2021-2026) & (\$ millions)

Table 41. Global Motor Driver Transistor Revenue Market Share by Country/Region (2021-2026)

Table 42. Americas Motor Driver Transistor Sales by Country (2021-2026) & (K Units)

Table 43. Americas Motor Driver Transistor Sales Market Share by Country (2021-2026)

Table 44. Americas Motor Driver Transistor Revenue by Country (2021-2026) & (\$ millions)

Table 45. Americas Motor Driver Transistor Sales by Type (2021-2026) & (K Units)

Table 46. Americas Motor Driver Transistor Sales by Application (2021-2026) & (K Units)

Table 47. APAC Motor Driver Transistor Sales by Region (2021-2026) & (K Units)

Table 48. APAC Motor Driver Transistor Sales Market Share by Region (2021-2026)

- Table 49. APAC Motor Driver Transistor Revenue by Region (2021-2026) & (\$ millions)
- Table 50. APAC Motor Driver Transistor Sales by Type (2021-2026) & (K Units)
- Table 51. APAC Motor Driver Transistor Sales by Application (2021-2026) & (K Units)
- Table 52. Europe Motor Driver Transistor Sales by Country (2021-2026) & (K Units)
- Table 53. Europe Motor Driver Transistor Revenue by Country (2021-2026) & (\$ millions)
- Table 54. Europe Motor Driver Transistor Sales by Type (2021-2026) & (K Units)
- Table 55. Europe Motor Driver Transistor Sales by Application (2021-2026) & (K Units)
- Table 56. Middle East & Africa Motor Driver Transistor Sales by Country (2021-2026) & (K Units)
- Table 57. Middle East & Africa Motor Driver Transistor Revenue Market Share by Country (2021-2026)
- Table 58. Middle East & Africa Motor Driver Transistor Sales by Type (2021-2026) & (K Units)
- Table 59. Middle East & Africa Motor Driver Transistor Sales by Application (2021-2026) & (K Units)
- Table 60. Key Market Drivers & Growth Opportunities of Motor Driver Transistor
- Table 61. Key Market Challenges & Risks of Motor Driver Transistor
- Table 62. Key Industry Trends of Motor Driver Transistor
- Table 63. Motor Driver Transistor Raw Material
- Table 64. Key Suppliers of Raw Materials
- Table 65. Motor Driver Transistor Distributors List
- Table 66. Motor Driver Transistor Customer List
- Table 67. Global Motor Driver Transistor Sales Forecast by Region (2027-2032) & (K Units)
- Table 68. Global Motor Driver Transistor Revenue Forecast by Region (2027-2032) & (\$ millions)
- Table 69. Americas Motor Driver Transistor Sales Forecast by Country (2027-2032) & (K Units)
- Table 70. Americas Motor Driver Transistor Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 71. APAC Motor Driver Transistor Sales Forecast by Region (2027-2032) & (K Units)
- Table 72. APAC Motor Driver Transistor Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
- Table 73. Europe Motor Driver Transistor Sales Forecast by Country (2027-2032) & (K Units)
- Table 74. Europe Motor Driver Transistor Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 75. Middle East & Africa Motor Driver Transistor Sales Forecast by Country (2027-2032) & (K Units)

Table 76. Middle East & Africa Motor Driver Transistor Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 77. Global Motor Driver Transistor Sales Forecast by Type (2027-2032) & (K Units)

Table 78. Global Motor Driver Transistor Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 79. Global Motor Driver Transistor Sales Forecast by Application (2027-2032) & (K Units)

Table 80. Global Motor Driver Transistor Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 81. Infineon Technologies Basic Information, Motor Driver Transistor Manufacturing Base, Sales Area and Its Competitors

Table 82. Infineon Technologies Motor Driver Transistor Product Portfolios and Specifications

Table 83. Infineon Technologies Motor Driver Transistor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 84. Infineon Technologies Main Business

Table 85. Infineon Technologies Latest Developments

Table 86. ON Semiconductor Basic Information, Motor Driver Transistor Manufacturing Base, Sales Area and Its Competitors

Table 87. ON Semiconductor Motor Driver Transistor Product Portfolios and Specifications

Table 88. ON Semiconductor Motor Driver Transistor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 89. ON Semiconductor Main Business

Table 90. ON Semiconductor Latest Developments

Table 91. STMicroelectronics Basic Information, Motor Driver Transistor Manufacturing Base, Sales Area and Its Competitors

Table 92. STMicroelectronics Motor Driver Transistor Product Portfolios and Specifications

Table 93. STMicroelectronics Motor Driver Transistor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 94. STMicroelectronics Main Business

Table 95. STMicroelectronics Latest Developments

Table 96. Texas Instruments Basic Information, Motor Driver Transistor Manufacturing Base, Sales Area and Its Competitors

Table 97. Texas Instruments Motor Driver Transistor Product Portfolios and

## Specifications

Table 98. Texas Instruments Motor Driver Transistor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 99. Texas Instruments Main Business

Table 100. Texas Instruments Latest Developments

Table 101. Renesas Basic Information, Motor Driver Transistor Manufacturing Base, Sales Area and Its Competitors

Table 102. Renesas Motor Driver Transistor Product Portfolios and Specifications

Table 103. Renesas Motor Driver Transistor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 104. Renesas Main Business

Table 105. Renesas Latest Developments

Table 106. Vishay Intertechnology Basic Information, Motor Driver Transistor Manufacturing Base, Sales Area and Its Competitors

Table 107. Vishay Intertechnology Motor Driver Transistor Product Portfolios and Specifications

Table 108. Vishay Intertechnology Motor Driver Transistor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 109. Vishay Intertechnology Main Business

Table 110. Vishay Intertechnology Latest Developments

Table 111. Nexperia Basic Information, Motor Driver Transistor Manufacturing Base, Sales Area and Its Competitors

Table 112. Nexperia Motor Driver Transistor Product Portfolios and Specifications

Table 113. Nexperia Motor Driver Transistor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 114. Nexperia Main Business

Table 115. Nexperia Latest Developments

Table 116. Powerex Basic Information, Motor Driver Transistor Manufacturing Base, Sales Area and Its Competitors

Table 117. Powerex Motor Driver Transistor Product Portfolios and Specifications

Table 118. Powerex Motor Driver Transistor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 119. Powerex Main Business

Table 120. Powerex Latest Developments

Table 121. Proton?Electrotex Basic Information, Motor Driver Transistor Manufacturing Base, Sales Area and Its Competitors

Table 122. Proton?Electrotex Motor Driver Transistor Product Portfolios and Specifications

Table 123. Proton?Electrotex Motor Driver Transistor Sales (K Units), Revenue (\$

Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 124. Proton?Electrotex Main Business

Table 125. Proton?Electrotex Latest Developments

Table 126. Dynex Semiconductor Basic Information, Motor Driver Transistor Manufacturing Base, Sales Area and Its Competitors

Table 127. Dynex Semiconductor Motor Driver Transistor Product Portfolios and Specifications

Table 128. Dynex Semiconductor Motor Driver Transistor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 129. Dynex Semiconductor Main Business

Table 130. Dynex Semiconductor Latest Developments

Table 131. BYD Microelectronics Basic Information, Motor Driver Transistor Manufacturing Base, Sales Area and Its Competitors

Table 132. BYD Microelectronics Motor Driver Transistor Product Portfolios and Specifications

Table 133. BYD Microelectronics Motor Driver Transistor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 134. BYD Microelectronics Main Business

Table 135. BYD Microelectronics Latest Developments

Table 136. CR Micro Basic Information, Motor Driver Transistor Manufacturing Base, Sales Area and Its Competitors

Table 137. CR Micro Motor Driver Transistor Product Portfolios and Specifications

Table 138. CR Micro Motor Driver Transistor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 139. CR Micro Main Business

Table 140. CR Micro Latest Developments

Table 141. Silan Microelectronics Basic Information, Motor Driver Transistor Manufacturing Base, Sales Area and Its Competitors

Table 142. Silan Microelectronics Motor Driver Transistor Product Portfolios and Specifications

Table 143. Silan Microelectronics Motor Driver Transistor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 144. Silan Microelectronics Main Business

Table 145. Silan Microelectronics Latest Developments

Table 146. Yangzhou Yangjie Electronic Basic Information, Motor Driver Transistor Manufacturing Base, Sales Area and Its Competitors

Table 147. Yangzhou Yangjie Electronic Motor Driver Transistor Product Portfolios and Specifications

Table 148. Yangzhou Yangjie Electronic Motor Driver Transistor Sales (K Units),

Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 149. Yangzhou Yangjie Electronic Main Business

Table 150. Yangzhou Yangjie Electronic Latest Developments

Table 151. Wuxi XinJieNeng Basic Information, Motor Driver Transistor Manufacturing Base, Sales Area and Its Competitors

Table 152. Wuxi XinJieNeng Motor Driver Transistor Product Portfolios and Specifications

Table 153. Wuxi XinJieNeng Motor Driver Transistor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 154. Wuxi XinJieNeng Main Business

Table 155. Wuxi XinJieNeng Latest Developments

## List Of Figures

### LIST OF FIGURES

- Figure 1. Picture of Motor Driver Transistor
- Figure 2. Motor Driver Transistor Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Motor Driver Transistor Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global Motor Driver Transistor Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Motor Driver Transistor Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Motor Driver Transistor Sales Market Share by Country/Region (2025)
- Figure 10. Motor Driver Transistor Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of BJT
- Figure 12. Product Picture of MOSFET
- Figure 13. Product Picture of IGBT
- Figure 14. Global Motor Driver Transistor Sales Market Share by Type in 2026
- Figure 15. Global Motor Driver Transistor Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of Low Voltage
- Figure 17. Product Picture of Medium Voltage
- Figure 18. Product Picture of High Voltage
- Figure 19. Global Motor Driver Transistor Sales Market Share by Voltage Rating in 2026
- Figure 20. Global Motor Driver Transistor Revenue Market Share by Voltage Rating (2021-2026)
- Figure 21. Motor Driver Transistor Consumed in Automation Equipment
- Figure 22. Global Motor Driver Transistor Market: Automation Equipment (2021-2026) & (K Units)
- Figure 23. Motor Driver Transistor Consumed in Home Appliance
- Figure 24. Global Motor Driver Transistor Market: Home Appliance (2021-2026) & (K Units)
- Figure 25. Motor Driver Transistor Consumed in Electric Vehicle
- Figure 26. Global Motor Driver Transistor Market: Electric Vehicle (2021-2026) & (K Units)
- Figure 27. Motor Driver Transistor Consumed in Robot
- Figure 28. Global Motor Driver Transistor Market: Robot (2021-2026) & (K Units)
- Figure 29. Motor Driver Transistor Consumed in Others

- Figure 30. Global Motor Driver Transistor Market: Others (2021-2026) & (K Units)
- Figure 31. Global Motor Driver Transistor Sale Market Share by Application (2025)
- Figure 32. Global Motor Driver Transistor Revenue Market Share by Application in 2026
- Figure 33. Motor Driver Transistor Sales by Company in 2026 (K Units)
- Figure 34. Global Motor Driver Transistor Sales Market Share by Company in 2026
- Figure 35. Motor Driver Transistor Revenue by Company in 2026 (\$ millions)
- Figure 36. Global Motor Driver Transistor Revenue Market Share by Company in 2026
- Figure 37. Global Motor Driver Transistor Sales Market Share by Geographic Region (2021-2026)
- Figure 38. Global Motor Driver Transistor Revenue Market Share by Geographic Region in 2026
- Figure 39. Americas Motor Driver Transistor Sales 2021-2026 (K Units)
- Figure 40. Americas Motor Driver Transistor Revenue 2021-2026 (\$ millions)
- Figure 41. APAC Motor Driver Transistor Sales 2021-2026 (K Units)
- Figure 42. APAC Motor Driver Transistor Revenue 2021-2026 (\$ millions)
- Figure 43. Europe Motor Driver Transistor Sales 2021-2026 (K Units)
- Figure 44. Europe Motor Driver Transistor Revenue 2021-2026 (\$ millions)
- Figure 45. Middle East & Africa Motor Driver Transistor Sales 2021-2026 (K Units)
- Figure 46. Middle East & Africa Motor Driver Transistor Revenue 2021-2026 (\$ millions)
- Figure 47. Americas Motor Driver Transistor Sales Market Share by Country in 2026
- Figure 48. Americas Motor Driver Transistor Revenue Market Share by Country (2021-2026)
- Figure 49. Americas Motor Driver Transistor Sales Market Share by Type (2021-2026)
- Figure 50. Americas Motor Driver Transistor Sales Market Share by Application (2021-2026)
- Figure 51. United States Motor Driver Transistor Revenue Growth 2021-2026 (\$ millions)
- Figure 52. Canada Motor Driver Transistor Revenue Growth 2021-2026 (\$ millions)
- Figure 53. Mexico Motor Driver Transistor Revenue Growth 2021-2026 (\$ millions)
- Figure 54. Brazil Motor Driver Transistor Revenue Growth 2021-2026 (\$ millions)
- Figure 55. APAC Motor Driver Transistor Sales Market Share by Region in 2026
- Figure 56. APAC Motor Driver Transistor Revenue Market Share by Region (2021-2026)
- Figure 57. APAC Motor Driver Transistor Sales Market Share by Type (2021-2026)
- Figure 58. APAC Motor Driver Transistor Sales Market Share by Application (2021-2026)
- Figure 59. China Motor Driver Transistor Revenue Growth 2021-2026 (\$ millions)
- Figure 60. Japan Motor Driver Transistor Revenue Growth 2021-2026 (\$ millions)
- Figure 61. South Korea Motor Driver Transistor Revenue Growth 2021-2026 (\$ millions)

Figure 62. Southeast Asia Motor Driver Transistor Revenue Growth 2021-2026 (\$ millions)

Figure 63. India Motor Driver Transistor Revenue Growth 2021-2026 (\$ millions)

Figure 64. Australia Motor Driver Transistor Revenue Growth 2021-2026 (\$ millions)

Figure 65. China Taiwan Motor Driver Transistor Revenue Growth 2021-2026 (\$ millions)

Figure 66. Europe Motor Driver Transistor Sales Market Share by Country in 2026

Figure 67. Europe Motor Driver Transistor Revenue Market Share by Country (2021-2026)

Figure 68. Europe Motor Driver Transistor Sales Market Share by Type (2021-2026)

Figure 69. Europe Motor Driver Transistor Sales Market Share by Application (2021-2026)

Figure 70. Germany Motor Driver Transistor Revenue Growth 2021-2026 (\$ millions)

Figure 71. France Motor Driver Transistor Revenue Growth 2021-2026 (\$ millions)

Figure 72. UK Motor Driver Transistor Revenue Growth 2021-2026 (\$ millions)

Figure 73. Italy Motor Driver Transistor Revenue Growth 2021-2026 (\$ millions)

Figure 74. Russia Motor Driver Transistor Revenue Growth 2021-2026 (\$ millions)

Figure 75. Middle East & Africa Motor Driver Transistor Sales Market Share by Country (2021-2026)

Figure 76. Middle East & Africa Motor Driver Transistor Sales Market Share by Type (2021-2026)

Figure 77. Middle East & Africa Motor Driver Transistor Sales Market Share by Application (2021-2026)

Figure 78. Egypt Motor Driver Transistor Revenue Growth 2021-2026 (\$ millions)

Figure 79. South Africa Motor Driver Transistor Revenue Growth 2021-2026 (\$ millions)

Figure 80. Israel Motor Driver Transistor Revenue Growth 2021-2026 (\$ millions)

Figure 81. Turkey Motor Driver Transistor Revenue Growth 2021-2026 (\$ millions)

Figure 82. GCC Countries Motor Driver Transistor Revenue Growth 2021-2026 (\$ millions)

Figure 83. Manufacturing Cost Structure Analysis of Motor Driver Transistor in 2026

Figure 84. Manufacturing Process Analysis of Motor Driver Transistor

Figure 85. Industry Chain Structure of Motor Driver Transistor

Figure 86. Channels of Distribution

Figure 87. Global Motor Driver Transistor Sales Market Forecast by Region (2027-2032)

Figure 88. Global Motor Driver Transistor Revenue Market Share Forecast by Region (2027-2032)

Figure 89. Global Motor Driver Transistor Sales Market Share Forecast by Type (2027-2032)

Figure 90. Global Motor Driver Transistor Revenue Market Share Forecast by Type

(2027-2032)

Figure 91. Global Motor Driver Transistor Sales Market Share Forecast by Application

(2027-2032)

Figure 92. Global Motor Driver Transistor Revenue Market Share Forecast by

Application (2027-2032)

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