

Global Power TVS Diodes Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Power TVS Diodes market size is expected to reach \$ 1167 million by 2032, rising at a market growth of 8.3% CAGR during the forecast period (2026-2032).

Power TVS Diodes are high-energy transient voltage suppression devices designed to protect power circuits and high-current systems from surge events, load dump, and electrostatic discharge by clamping excessive voltage within a safe range. They offer advantages such as high peak pulse power capability, fast response time, strong reliability under harsh operating conditions, and suitability for high-power density applications. The capacity utilization rate in 2025 was 85%, and the industry's average gross margin was about 35%. In 2025, production totaled 2321 million units, with an average price of USD 0.28 per unit. Upstream, key inputs include high-purity monocrystalline silicon and epoxy molding compounds, with representative suppliers such as Shin-Etsu Chemical, SUMCO, Dow, and Kingboard Holdings. The midstream segment involves wafer fabrication, high-power device design, packaging engineering, and reliability validation processes that determine surge capability and durability. Downstream demand is driven by consumer electronics and automotive systems, with representative customers including Apple, Samsung, Huawei, Toyota, Volkswagen, and BYD.

Power TVS Diodes are a category of high-power transient voltage suppression components engineered to absorb and dissipate large surge energy levels, typically in the range of hundreds to thousands of watts. These diodes operate by transitioning from a high-impedance state to a low-impedance clamping mode within nanoseconds when exposed to transient overvoltages, thereby protecting downstream circuits.

This report studies the global Power TVS Diodes production, demand, key

manufacturers, and key regions.

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

Highlights and key features of the study

Global Power TVS Diodes total production and demand, 2021-2032, (Million Units)

Global Power TVS Diodes total production value, 2021-2032, (USD Million)

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

Global Power TVS Diodes consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Power TVS Diodes domestic production, consumption, key domestic manufacturers and share

Global Power TVS Diodes production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Power TVS Diodes production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Power TVS Diodes production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Power TVS Diodes market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Littelfuse, Infineon, STMicroelectronics, ON Semiconductor, Diodes Incorporated, NXP, Toshiba, Texas Instruments, Vishay, Nexperia, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Power TVS Diodes market

Detailed Segmentation:

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

Global Power TVS Diodes Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Power TVS Diodes Market, Segmentation by Type:

Uni-Directional

Bi-Directional

Global Power TVS Diodes Market, Segmentation by Power:

?400W

400-1500W

Others

Global Power TVS Diodes Market, Segmentation by Voltage:

?12V

12-58V

Others

Global Power TVS Diodes Market, Segmentation by Application:

Automotive

Industrial

Telecommunication

Consumer Electronic

Others

Companies Profiled:

Littelfuse

Infineon

STMicroelectronics

ON Semiconductor

Diodes Incorporated

NXP

Toshiba

Texas Instruments

Vishay

Nexperia

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

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

4 UNITED STATES VS CHINA VS REST OF THE WORLD

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

2021-2026

4.4.1 United States Based Power TVS Diodes Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Power TVS Diodes Production Value (2021-2026)

4.4.3 United States Based Manufacturers Power TVS Diodes Production (2021-2026)

4.5 China Based Power TVS Diodes Manufacturers and Market Share

4.5.1 China Based Power TVS Diodes Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Power TVS Diodes Production Value (2021-2026)

4.5.3 China Based Manufacturers Power TVS Diodes Production (2021-2026)

4.6 Rest of World Based Power TVS Diodes Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Power TVS Diodes Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Power TVS Diodes Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Power TVS Diodes Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Power TVS Diodes Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Uni-Directional

5.2.2 Bi-Directional

5.3 Market Segment by Type

5.3.1 World Power TVS Diodes Production by Type (2021-2032)

5.3.2 World Power TVS Diodes Production Value by Type (2021-2032)

5.3.3 World Power TVS Diodes Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY POWER

6.1 World Power TVS Diodes Market Size Overview by Power: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Power

6.2.1 ?400W

6.2.2 400-1500W

6.2.3 Others

6.3 Market Segment by Power

6.3.1 World Power TVS Diodes Production by Power (2021-2032)

6.3.2 World Power TVS Diodes Production Value by Power (2021-2032)

6.3.3 World Power TVS Diodes Average Price by Power (2021-2032)

7 MARKET ANALYSIS BY VOLTAGE

7.1 World Power TVS Diodes Market Size Overview by Voltage: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Voltage

7.2.1 <12V

7.2.2 12-58V

7.2.3 Others

7.3 Market Segment by Voltage

7.3.1 World Power TVS Diodes Production by Voltage (2021-2032)

7.3.2 World Power TVS Diodes Production Value by Voltage (2021-2032)

7.3.3 World Power TVS Diodes Average Price by Voltage (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Power TVS Diodes Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Automotive

8.2.2 Industrial

8.2.3 Telecommunication

8.2.4 Consumer Electronic

8.2.5 Others

8.3 Market Segment by Application

8.3.1 World Power TVS Diodes Production by Application (2021-2032)

8.3.2 World Power TVS Diodes Production Value by Application (2021-2032)

8.3.3 World Power TVS Diodes Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Littelfuse

9.1.1 Littelfuse Details

9.1.2 Littelfuse Major Business

9.1.3 Littelfuse Power TVS Diodes Product and Services

9.1.4 Littelfuse Power TVS Diodes Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.1.5 Littelfuse Recent Developments/Updates
- 9.1.6 Littelfuse Competitive Strengths & Weaknesses
- 9.2 Infineon
 - 9.2.1 Infineon Details
 - 9.2.2 Infineon Major Business
 - 9.2.3 Infineon Power TVS Diodes Product and Services
 - 9.2.4 Infineon Power TVS Diodes Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 Infineon Recent Developments/Updates
 - 9.2.6 Infineon Competitive Strengths & Weaknesses
- 9.3 STMicroelectronics
 - 9.3.1 STMicroelectronics Details
 - 9.3.2 STMicroelectronics Major Business
 - 9.3.3 STMicroelectronics Power TVS Diodes Product and Services
 - 9.3.4 STMicroelectronics Power TVS Diodes Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 STMicroelectronics Recent Developments/Updates
 - 9.3.6 STMicroelectronics Competitive Strengths & Weaknesses
- 9.4 ON Semiconductor
 - 9.4.1 ON Semiconductor Details
 - 9.4.2 ON Semiconductor Major Business
 - 9.4.3 ON Semiconductor Power TVS Diodes Product and Services
 - 9.4.4 ON Semiconductor Power TVS Diodes Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 ON Semiconductor Recent Developments/Updates
 - 9.4.6 ON Semiconductor Competitive Strengths & Weaknesses
- 9.5 Diodes Incorporated
 - 9.5.1 Diodes Incorporated Details
 - 9.5.2 Diodes Incorporated Major Business
 - 9.5.3 Diodes Incorporated Power TVS Diodes Product and Services
 - 9.5.4 Diodes Incorporated Power TVS Diodes Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Diodes Incorporated Recent Developments/Updates
 - 9.5.6 Diodes Incorporated Competitive Strengths & Weaknesses
- 9.6 NXP
 - 9.6.1 NXP Details
 - 9.6.2 NXP Major Business
 - 9.6.3 NXP Power TVS Diodes Product and Services
 - 9.6.4 NXP Power TVS Diodes Production, Price, Value, Gross Margin and Market

Share (2021-2026)

9.6.5 NXP Recent Developments/Updates

9.6.6 NXP Competitive Strengths & Weaknesses

9.7 Toshiba

9.7.1 Toshiba Details

9.7.2 Toshiba Major Business

9.7.3 Toshiba Power TVS Diodes Product and Services

9.7.4 Toshiba Power TVS Diodes Production, Price, Value, Gross Margin and Market

Share (2021-2026)

9.7.5 Toshiba Recent Developments/Updates

9.7.6 Toshiba Competitive Strengths & Weaknesses

9.8 Texas Instruments

9.8.1 Texas Instruments Details

9.8.2 Texas Instruments Major Business

9.8.3 Texas Instruments Power TVS Diodes Product and Services

9.8.4 Texas Instruments Power TVS Diodes Production, Price, Value, Gross Margin and

Market Share (2021-2026)

9.8.5 Texas Instruments Recent Developments/Updates

9.8.6 Texas Instruments Competitive Strengths & Weaknesses

9.9 Vishay

9.9.1 Vishay Details

9.9.2 Vishay Major Business

9.9.3 Vishay Power TVS Diodes Product and Services

9.9.4 Vishay Power TVS Diodes Production, Price, Value, Gross Margin and Market

Share (2021-2026)

9.9.5 Vishay Recent Developments/Updates

9.9.6 Vishay Competitive Strengths & Weaknesses

9.10 Nexperia

9.10.1 Nexperia Details

9.10.2 Nexperia Major Business

9.10.3 Nexperia Power TVS Diodes Product and Services

9.10.4 Nexperia Power TVS Diodes Production, Price, Value, Gross Margin and Market

Share (2021-2026)

9.10.5 Nexperia Recent Developments/Updates

9.10.6 Nexperia Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Power TVS Diodes Industry Chain

10.2 Power TVS Diodes Upstream Analysis

10.2.1 Power TVS Diodes Core Raw Materials

10.2.2 Main Manufacturers of Power TVS Diodes Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Power TVS Diodes Production Mode

10.6 Power TVS Diodes Procurement Model

10.7 Power TVS Diodes Industry Sales Model and Sales Channels

10.7.1 Power TVS Diodes Sales Model

10.7.2 Power TVS Diodes Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Power TVS Diodes Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Power TVS Diodes Production Value by Region (2021-2026) & (USD Million)

Table 3. World Power TVS Diodes Production Value by Region (2027-2032) & (USD Million)

Table 4. World Power TVS Diodes Production Value Market Share by Region (2021-2026)

Table 5. World Power TVS Diodes Production Value Market Share by Region (2027-2032)

Table 6. World Power TVS Diodes Production by Region (2021-2026) & (Million Units)

Table 7. World Power TVS Diodes Production by Region (2027-2032) & (Million Units)

Table 8. World Power TVS Diodes Production Market Share by Region (2021-2026)

Table 9. World Power TVS Diodes Production Market Share by Region (2027-2032)

Table 10. World Power TVS Diodes Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Power TVS Diodes Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Power TVS Diodes Major Market Trends

Table 13. World Power TVS Diodes Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Million Units)

Table 14. World Power TVS Diodes Consumption by Region (2021-2026) & (Million Units)

Table 15. World Power TVS Diodes Consumption Forecast by Region (2027-2032) & (Million Units)

Table 16. World Power TVS Diodes Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Power TVS Diodes Producers in 2025

Table 18. World Power TVS Diodes Production by Manufacturer (2021-2026) & (Million Units)

Table 19. Production Market Share of Key Power TVS Diodes Producers in 2025

Table 20. World Power TVS Diodes Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Power TVS Diodes Company Evaluation Quadrant

Table 22. World Power TVS Diodes Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Power TVS Diodes Production Site of Key Manufacturer

Table 24. Power TVS Diodes Market: Company Product Type Footprint

Table 25. Power TVS Diodes Market: Company Product Application Footprint

Table 26. Power TVS Diodes Competitive Factors

Table 27. Power TVS Diodes New Entrant and Capacity Expansion Plans

Table 28. Power TVS Diodes Mergers & Acquisitions Activity

Table 29. United States VS China Power TVS Diodes Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Power TVS Diodes Production Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 31. United States VS China Power TVS Diodes Consumption Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 32. United States Based Power TVS Diodes Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Power TVS Diodes Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Power TVS Diodes Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Power TVS Diodes Production (2021-2026) & (Million Units)

Table 36. United States Based Manufacturers Power TVS Diodes Production Market Share (2021-2026)

Table 37. China Based Power TVS Diodes Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Power TVS Diodes Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Power TVS Diodes Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Power TVS Diodes Production, (2021-2026) & (Million Units)

Table 41. China Based Manufacturers Power TVS Diodes Production Market Share (2021-2026)

Table 42. Rest of World Based Power TVS Diodes Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Power TVS Diodes Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Power TVS Diodes Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Power TVS Diodes Production, (2021-2026) & (Million Units)

Table 46. Rest of World Based Manufacturers Power TVS Diodes Production Market Share (2021-2026)

Table 47. World Power TVS Diodes Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Power TVS Diodes Production by Type (2021-2026) & (Million Units)

Table 49. World Power TVS Diodes Production by Type (2027-2032) & (Million Units)

Table 50. World Power TVS Diodes Production Value by Type (2021-2026) & (USD Million)

Table 51. World Power TVS Diodes Production Value by Type (2027-2032) & (USD Million)

Table 52. World Power TVS Diodes Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Power TVS Diodes Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Power TVS Diodes Production Value by Power, (USD Million), 2021 & 2025 & 2032

Table 55. World Power TVS Diodes Production by Power (2021-2026) & (Million Units)

Table 56. World Power TVS Diodes Production by Power (2027-2032) & (Million Units)

Table 57. World Power TVS Diodes Production Value by Power (2021-2026) & (USD Million)

Table 58. World Power TVS Diodes Production Value by Power (2027-2032) & (USD Million)

Table 59. World Power TVS Diodes Average Price by Power (2021-2026) & (US\$/Unit)

Table 60. World Power TVS Diodes Average Price by Power (2027-2032) & (US\$/Unit)

Table 61. World Power TVS Diodes Production Value by Voltage, (USD Million), 2021 & 2025 & 2032

Table 62. World Power TVS Diodes Production by Voltage (2021-2026) & (Million Units)

Table 63. World Power TVS Diodes Production by Voltage (2027-2032) & (Million Units)

Table 64. World Power TVS Diodes Production Value by Voltage (2021-2026) & (USD Million)

Table 65. World Power TVS Diodes Production Value by Voltage (2027-2032) & (USD Million)

Table 66. World Power TVS Diodes Average Price by Voltage (2021-2026) & (US\$/Unit)

Table 67. World Power TVS Diodes Average Price by Voltage (2027-2032) & (US\$/Unit)

Table 68. World Power TVS Diodes Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Power TVS Diodes Production by Application (2021-2026) & (Million Units)

Table 70. World Power TVS Diodes Production by Application (2027-2032) & (Million Units)

Table 71. World Power TVS Diodes Production Value by Application (2021-2026) &

(USD Million)

Table 72. World Power TVS Diodes Production Value by Application (2027-2032) & (USD Million)

Table 73. World Power TVS Diodes Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Power TVS Diodes Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Littelfuse Basic Information, Manufacturing Base and Competitors

Table 76. Littelfuse Major Business

Table 77. Littelfuse Power TVS Diodes Product and Services

Table 78. Littelfuse Power TVS Diodes Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Littelfuse Recent Developments/Updates

Table 80. Littelfuse Competitive Strengths & Weaknesses

Table 81. Infineon Basic Information, Manufacturing Base and Competitors

Table 82. Infineon Major Business

Table 83. Infineon Power TVS Diodes Product and Services

Table 84. Infineon Power TVS Diodes Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Infineon Recent Developments/Updates

Table 86. Infineon Competitive Strengths & Weaknesses

Table 87. STMicroelectronics Basic Information, Manufacturing Base and Competitors

Table 88. STMicroelectronics Major Business

Table 89. STMicroelectronics Power TVS Diodes Product and Services

Table 90. STMicroelectronics Power TVS Diodes Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. STMicroelectronics Recent Developments/Updates

Table 92. STMicroelectronics Competitive Strengths & Weaknesses

Table 93. ON Semiconductor Basic Information, Manufacturing Base and Competitors

Table 94. ON Semiconductor Major Business

Table 95. ON Semiconductor Power TVS Diodes Product and Services

Table 96. ON Semiconductor Power TVS Diodes Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. ON Semiconductor Recent Developments/Updates

Table 98. ON Semiconductor Competitive Strengths & Weaknesses

Table 99. Diodes Incorporated Basic Information, Manufacturing Base and Competitors

Table 100. Diodes Incorporated Major Business

Table 101. Diodes Incorporated Power TVS Diodes Product and Services
Table 102. Diodes Incorporated Power TVS Diodes Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Diodes Incorporated Recent Developments/Updates
Table 104. Diodes Incorporated Competitive Strengths & Weaknesses
Table 105. NXP Basic Information, Manufacturing Base and Competitors
Table 106. NXP Major Business
Table 107. NXP Power TVS Diodes Product and Services
Table 108. NXP Power TVS Diodes Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. NXP Recent Developments/Updates
Table 110. NXP Competitive Strengths & Weaknesses
Table 111. Toshiba Basic Information, Manufacturing Base and Competitors
Table 112. Toshiba Major Business
Table 113. Toshiba Power TVS Diodes Product and Services
Table 114. Toshiba Power TVS Diodes Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Toshiba Recent Developments/Updates
Table 116. Toshiba Competitive Strengths & Weaknesses
Table 117. Texas Instruments Basic Information, Manufacturing Base and Competitors
Table 118. Texas Instruments Major Business
Table 119. Texas Instruments Power TVS Diodes Product and Services
Table 120. Texas Instruments Power TVS Diodes Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. Texas Instruments Recent Developments/Updates
Table 122. Texas Instruments Competitive Strengths & Weaknesses
Table 123. Vishay Basic Information, Manufacturing Base and Competitors
Table 124. Vishay Major Business
Table 125. Vishay Power TVS Diodes Product and Services
Table 126. Vishay Power TVS Diodes Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. Vishay Recent Developments/Updates
Table 128. Vishay Competitive Strengths & Weaknesses
Table 129. Nexperia Basic Information, Manufacturing Base and Competitors
Table 130. Nexperia Major Business
Table 131. Nexperia Power TVS Diodes Product and Services
Table 132. Nexperia Power TVS Diodes Production (Million Units), Price (US\$/Unit),

Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Nexperia Recent Developments/Updates

Table 134. Nexperia Competitive Strengths & Weaknesses

Table 135. Global Key Players of Power TVS Diodes Upstream (Raw Materials)

Table 136. Global Power TVS Diodes Typical Customers

Table 137. Power TVS Diodes Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Power TVS Diodes Picture

Figure 2. World Power TVS Diodes Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Power TVS Diodes Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Power TVS Diodes Production (2021-2032) & (Million Units)

Figure 5. World Power TVS Diodes Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Power TVS Diodes Production Value Market Share by Region (2021-2032)

Figure 7. World Power TVS Diodes Production Market Share by Region (2021-2032)

Figure 8. North America Power TVS Diodes Production (2021-2032) & (Million Units)

Figure 9. Europe Power TVS Diodes Production (2021-2032) & (Million Units)

Figure 10. China Power TVS Diodes Production (2021-2032) & (Million Units)

Figure 11. Japan Power TVS Diodes Production (2021-2032) & (Million Units)

Figure 12. South Korea Power TVS Diodes Production (2021-2032) & (Million Units)

Figure 13. Southeast Asia Power TVS Diodes Production (2021-2032) & (Million Units)

Figure 14. China Taiwan Power TVS Diodes Production (2021-2032) & (Million Units)

Figure 15. Power TVS Diodes Market Drivers

Figure 16. Factors Affecting Demand

Figure 17. World Power TVS Diodes Consumption (2021-2032) & (Million Units)

Figure 18. World Power TVS Diodes Consumption Market Share by Region (2021-2032)

Figure 19. United States Power TVS Diodes Consumption (2021-2032) & (Million Units)

Figure 20. China Power TVS Diodes Consumption (2021-2032) & (Million Units)

Figure 21. Europe Power TVS Diodes Consumption (2021-2032) & (Million Units)

Figure 22. Japan Power TVS Diodes Consumption (2021-2032) & (Million Units)

Figure 23. South Korea Power TVS Diodes Consumption (2021-2032) & (Million Units)

Figure 24. ASEAN Power TVS Diodes Consumption (2021-2032) & (Million Units)

Figure 25. India Power TVS Diodes Consumption (2021-2032) & (Million Units)

Figure 26. Producer Shipments of Power TVS Diodes by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 27. Global Four-firm Concentration Ratios (CR4) for Power TVS Diodes Markets in 2025

Figure 28. Global Four-firm Concentration Ratios (CR8) for Power TVS Diodes Markets in 2025

Figure 29. United States VS China: Power TVS Diodes Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Power TVS Diodes Production Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: Power TVS Diodes Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers Power TVS Diodes Production Market Share 2025

Figure 33. China Based Manufacturers Power TVS Diodes Production Market Share 2025

Figure 34. Rest of World Based Manufacturers Power TVS Diodes Production Market Share 2025

Figure 35. World Power TVS Diodes Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 36. World Power TVS Diodes Production Value Market Share by Type in 2025

Figure 37. Uni-Directional

Figure 38. Bi-Directional

Figure 39. World Power TVS Diodes Production Market Share by Type (2021-2032)

Figure 40. World Power TVS Diodes Production Value Market Share by Type

(2021-2032)

Figure 41. World Power TVS Diodes Average Price by Type (2021-2032) & (US\$/Unit)

Figure 42. World Power TVS Diodes Production Value by Power, (USD Million), 2021 & 2025 & 2032

Figure 43. World Power TVS Diodes Production Value Market Share by Power in 2025

Figure 44. ?400W

Figure 45. 400-1500W

Figure 46. Others

Figure 47. World Power TVS Diodes Production Market Share by Power (2021-2032)

Figure 48. World Power TVS Diodes Production Value Market Share by Power

(2021-2032)

Figure 49. World Power TVS Diodes Average Price by Power (2021-2032) & (US\$/Unit)

Figure 50. World Power TVS Diodes Production Value by Voltage, (USD Million), 2021 & 2025 & 2032

Figure 51. World Power TVS Diodes Production Value Market Share by Voltage in 2025

Figure 52. ?12V

Figure 53. 12-58V

Figure 54. Others

Figure 55. World Power TVS Diodes Production Market Share by Voltage (2021-2032)

Figure 56. World Power TVS Diodes Production Value Market Share by Voltage

(2021-2032)

Figure 57. World Power TVS Diodes Average Price by Voltage (2021-2032) & (US\$/Unit)

Figure 58. World Power TVS Diodes Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 59. World Power TVS Diodes Production Value Market Share by Application in 2025

Figure 60. Automotive

Figure 61. Industrial

Figure 62. Telecommunication

Figure 63. Consumer Electronic

Figure 64. Others

Figure 65. World Power TVS Diodes Production Market Share by Application (2021-2032)

Figure 66. World Power TVS Diodes Production Value Market Share by Application (2021-2032)

Figure 67. World Power TVS Diodes Average Price by Application (2021-2032) & (US\$/Unit)

Figure 68. Power TVS Diodes Industry Chain

Figure 69. Power TVS Diodes Procurement Model

Figure 70. Power TVS Diodes Sales Model

Figure 71. Power TVS Diodes Sales Channels, Direct Sales, and Distribution

Figure 72. Methodology

Figure 73. Research Process and Data Source

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