

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

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Abstracts

The global Ultra-slim TVS Diodes market size is expected to reach \$ 141 million by 2032, rising at a market growth of 8.9% CAGR during the forecast period (2026-2032).

Ultra-slim TVS Diodes are compact transient voltage suppression devices engineered with ultra-thin packaging structures to provide fast response and effective overvoltage protection in space-constrained electronic systems, ensuring signal integrity and system reliability under high-density integration conditions. Their advantages lie in reduced footprint, low clamping voltage, fast response speed, and compatibility with advanced packaging designs. The capacity utilization rate in 2025 was 85%, and the industry's average gross margin was about 35%. In 2025, production was 138 million units and the average price was USD 0.55 per unit. Upstream, key materials include high-purity monocrystalline silicon and epoxy molding compounds supplied by companies such as Shin-Etsu Chemical, SUMCO, GlobalWafers, Dow, and Hexion. The midstream segment involves chip design, wafer fabrication, thinning, packaging, and reliability testing processes that determine electrical performance and structural stability. Downstream demand is driven by consumer electronics and automotive applications, with representative customers including Apple, Samsung, Huawei, Tesla, Bosch, and Continental.

Ultra-slim TVS Diodes are increasingly aligned with the structural evolution of high-density electronic systems, where extreme space constraints and integration requirements redefine component selection criteria. In consumer electronics, ongoing miniaturization and multifunction integration drive the need for thinner protection devices that can be embedded without affecting overall form factor or signal integrity. In automotive applications, particularly within advanced driver assistance systems and in-vehicle networking modules, compact protection solutions are essential to maintain

system stability under complex electromagnetic environments. At the same time, rising data transmission speeds and reduced voltage margins increase sensitivity to transient disturbances, reinforcing the functional importance of ultra-slim protection devices. Nevertheless, the market remains influenced by cost pressure and product standardization, requiring suppliers to continuously improve packaging technology and reliability performance to sustain competitive positioning.

This report studies the global Ultra-slim TVS Diodes production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ultra-slim 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 Ultra-slim TVS Diodes that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Ultra-slim 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 Ultra-slim 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 Ultra-slim TVS Diodes Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ultra-slim TVS Diodes Market, Segmentation by Type:

Unidirectional

Bidirectional

Global Ultra-slim TVS Diodes Market, Segmentation by Power:

?400W

400-1500W

Others

Global Ultra-slim TVS Diodes Market, Segmentation by Voltage:

?12V

12-58V

Others

Global Ultra-slim TVS Diodes Market, Segmentation by Application:

Automotive

Consumer Electronics

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Ultra-slim TVS Diodes Production Value by Manufacturer (2021-2026)
- 3.2 World Ultra-slim TVS Diodes Production by Manufacturer (2021-2026)
- 3.3 World Ultra-slim TVS Diodes Average Price by Manufacturer (2021-2026)
- 3.4 Ultra-slim TVS Diodes Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Ultra-slim TVS Diodes Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Ultra-slim TVS Diodes in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Ultra-slim TVS Diodes in 2025
- 3.6 Ultra-slim TVS Diodes Market: Overall Company Footprint Analysis
 - 3.6.1 Ultra-slim TVS Diodes Market: Region Footprint
 - 3.6.2 Ultra-slim TVS Diodes Market: Company Product Type Footprint
 - 3.6.3 Ultra-slim 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: Ultra-slim TVS Diodes Production Value Comparison
 - 4.1.1 United States VS China: Ultra-slim TVS Diodes Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Ultra-slim TVS Diodes Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Ultra-slim TVS Diodes Production Comparison
 - 4.2.1 United States VS China: Ultra-slim TVS Diodes Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Ultra-slim TVS Diodes Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Ultra-slim TVS Diodes Consumption Comparison
 - 4.3.1 United States VS China: Ultra-slim TVS Diodes Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Ultra-slim TVS Diodes Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Ultra-slim TVS Diodes Manufacturers and Market Share,

2021-2026

4.4.1 United States Based Ultra-slim TVS Diodes Manufacturers, Headquarters and Production Site (States, Country)

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

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

4.5 China Based Ultra-slim TVS Diodes Manufacturers and Market Share

4.5.1 China Based Ultra-slim TVS Diodes Manufacturers, Headquarters and Production Site (Province, Country)

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

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

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

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

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

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

5 MARKET ANALYSIS BY TYPE

5.1 World Ultra-slim TVS Diodes Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Unidirectional

5.2.2 Bidirectional

5.3 Market Segment by Type

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

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

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

6 MARKET ANALYSIS BY POWER

6.1 World Ultra-slim 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 Ultra-slim TVS Diodes Production by Power (2021-2032)

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

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

7 MARKET ANALYSIS BY VOLTAGE

7.1 World Ultra-slim 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 Ultra-slim TVS Diodes Production by Voltage (2021-2032)

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

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

8 MARKET ANALYSIS BY APPLICATION

8.1 World Ultra-slim 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 Consumer Electronics

8.2.3 Others

8.3 Market Segment by Application

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

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

8.3.3 World Ultra-slim 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 Ultra-slim TVS Diodes Product and Services

- 9.1.4 Littelfuse Ultra-slim 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 Ultra-slim TVS Diodes Product and Services
 - 9.2.4 Infineon Ultra-slim 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 Ultra-slim TVS Diodes Product and Services
 - 9.3.4 STMicroelectronics Ultra-slim 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 Ultra-slim TVS Diodes Product and Services
 - 9.4.4 ON Semiconductor Ultra-slim 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 Ultra-slim TVS Diodes Product and Services
 - 9.5.4 Diodes Incorporated Ultra-slim 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 Ultra-slim TVS Diodes Product and Services

9.6.4 NXP Ultra-slim 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 Ultra-slim TVS Diodes Product and Services

9.7.4 Toshiba Ultra-slim 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 Ultra-slim TVS Diodes Product and Services

9.8.4 Texas Instruments Ultra-slim 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 Ultra-slim TVS Diodes Product and Services

9.9.4 Vishay Ultra-slim 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 Ultra-slim TVS Diodes Product and Services

9.10.4 Nexperia Ultra-slim 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 Ultra-slim TVS Diodes Industry Chain
- 10.2 Ultra-slim TVS Diodes Upstream Analysis
 - 10.2.1 Ultra-slim TVS Diodes Core Raw Materials
 - 10.2.2 Main Manufacturers of Ultra-slim TVS Diodes Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Ultra-slim TVS Diodes Production Mode
- 10.6 Ultra-slim TVS Diodes Procurement Model
- 10.7 Ultra-slim TVS Diodes Industry Sales Model and Sales Channels
 - 10.7.1 Ultra-slim TVS Diodes Sales Model
 - 10.7.2 Ultra-slim 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 Ultra-slim TVS Diodes Production Value by Region (2021, 2025 and 2032) & (USD Million)

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

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

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

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

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

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

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

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

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

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

Table 12. Ultra-slim TVS Diodes Major Market Trends

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

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

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

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

Table 17. Production Value Market Share of Key Ultra-slim TVS Diodes Producers in 2025

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

Table 19. Production Market Share of Key Ultra-slim TVS Diodes Producers in 2025

Table 20. World Ultra-slim TVS Diodes Average Price by Manufacturer (2021-2026) &

(US\$/Unit)

Table 21. Global Ultra-slim TVS Diodes Company Evaluation Quadrant

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

Table 23. Head Office and Ultra-slim TVS Diodes Production Site of Key Manufacturer

Table 24. Ultra-slim TVS Diodes Market: Company Product Type Footprint

Table 25. Ultra-slim TVS Diodes Market: Company Product Application Footprint

Table 26. Ultra-slim TVS Diodes Competitive Factors

Table 27. Ultra-slim TVS Diodes New Entrant and Capacity Expansion Plans

Table 28. Ultra-slim TVS Diodes Mergers & Acquisitions Activity

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Table 43. Rest of World Based Manufacturers Ultra-slim TVS Diodes Production Value,

(2021-2026) & (USD Million)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Table 71. World Ultra-slim TVS Diodes Production Value by Application (2021-2026) & (USD Million)

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

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

Table 74. World Ultra-slim 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 Ultra-slim TVS Diodes Product and Services

Table 78. Littelfuse Ultra-slim 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 Ultra-slim TVS Diodes Product and Services

Table 84. Infineon Ultra-slim 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 Ultra-slim TVS Diodes Product and Services

Table 90. STMicroelectronics Ultra-slim 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 Ultra-slim TVS Diodes Product and Services

Table 96. ON Semiconductor Ultra-slim 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 Ultra-slim TVS Diodes Product and Services

Table 102. Diodes Incorporated Ultra-slim 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 Ultra-slim TVS Diodes Product and Services

Table 108. NXP Ultra-slim 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 Ultra-slim TVS Diodes Product and Services

Table 114. Toshiba Ultra-slim 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 Ultra-slim TVS Diodes Product and Services

Table 120. Texas Instruments Ultra-slim 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 Ultra-slim TVS Diodes Product and Services

Table 126. Vishay Ultra-slim 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 Ultra-slim TVS Diodes Product and Services

Table 132. Nexperia Ultra-slim 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 Ultra-slim TVS Diodes Upstream (Raw Materials)

Table 136. Global Ultra-slim TVS Diodes Typical Customers

Table 137. Ultra-slim TVS Diodes Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Ultra-slim TVS Diodes Picture

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

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

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

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

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

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

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

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

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

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

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

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

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

Figure 15. Ultra-slim TVS Diodes Market Drivers

Figure 16. Factors Affecting Demand

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Figure 32. United States Based Manufacturers Ultra-slim TVS Diodes Production Market Share 2025

Figure 33. China Based Manufacturers Ultra-slim TVS Diodes Production Market Share 2025

Figure 34. Rest of World Based Manufacturers Ultra-slim TVS Diodes Production Market Share 2025

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

Figure 36. World Ultra-slim TVS Diodes Production Value Market Share by Type in 2025

Figure 37. Unidirectional

Figure 38. Bidirectional

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

Figure 40. World Ultra-slim TVS Diodes Production Value Market Share by Type (2021-2032)

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

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

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

Figure 44. ?400W

Figure 45. 400-1500W

Figure 46. Others

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

Figure 48. World Ultra-slim TVS Diodes Production Value Market Share by Power (2021-2032)

Figure 49. World Ultra-slim TVS Diodes Average Price by Power (2021-2032) &

(US\$/Unit)

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

Figure 51. World Ultra-slim TVS Diodes Production Value Market Share by Voltage in 2025

Figure 52. <12V

Figure 53. 12-58V

Figure 54. Others

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

Figure 56. World Ultra-slim TVS Diodes Production Value Market Share by Voltage (2021-2032)

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

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

Figure 59. World Ultra-slim TVS Diodes Production Value Market Share by Application in 2025

Figure 60. Automotive

Figure 61. Consumer Electronics

Figure 62. Others

Figure 63. World Ultra-slim TVS Diodes Production Market Share by Application (2021-2032)

Figure 64. World Ultra-slim TVS Diodes Production Value Market Share by Application (2021-2032)

Figure 65. World Ultra-slim TVS Diodes Average Price by Application (2021-2032) & (US\$/Unit)

Figure 66. Ultra-slim TVS Diodes Industry Chain

Figure 67. Ultra-slim TVS Diodes Procurement Model

Figure 68. Ultra-slim TVS Diodes Sales Model

Figure 69. Ultra-slim TVS Diodes Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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