

Global TVS Thyristor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global TVS Thyristor market size is expected to reach \$ 2899 million by 2032, rising at a market growth of 12.4% CAGR during the forecast period (2026-2032).

TVS Thyristor, more precisely referred to in industry as a thyristor surge suppressor or thyristor surge protective device, is a semiconductor protection component designed to divert transient overvoltage and surge current away from sensitive circuits. It is typically supplied as a small discrete device in surface-mount or through-hole packages such as SMA, SMB, or DO-15. Structurally, it is usually a two-terminal unidirectional or bidirectional device built around a PNPN thyristor structure with metal electrodes, passivation layers, and molded packaging. Unlike a TVS diode that protects mainly by voltage clamping, a TVS thyristor switches rapidly into a low on-state crowbar mode once the surge reaches its breakover threshold, conducting the surge current until the line current falls below the holding current, after which it returns to the blocking state. Main product categories include fixed-breakover, gate-programmable, unidirectional, and bidirectional types. Typical application scenarios include telephone and DSL lines, Ethernet and industrial signal interfaces, instrumentation ports, automotive communication links, security systems, and IoT terminals that must withstand lightning surges, power-cross events, EFT, and ESD stress.

For TVS Thyristors, the most compelling market opportunity lies not in serving as a simple substitute within the discrete protection component category, but in being repositioned as a strategic interface-level surge management device in high-reliability electronic systems. Unlike conventional clamping-type TVS diodes, thyristor-based protection devices switch rapidly into a low on-state crowbar mode once the overvoltage reaches the breakover threshold, allowing them to discharge surge energy more effectively in many telecom ports, industrial control interfaces, auxiliary power-

electronics lines, and lightning-exposed environments. As industrial automation, smart grids, edge connectivity, automotive electronics, and infrastructure digitalization continue to expand, end users are demanding stronger interface robustness, longer-term stability, and tighter compliance with safety and reliability requirements. This is pushing surge protection from an optional design add-on toward a front-end design necessity. For suppliers, the basis of competition is therefore shifting from price and headline parameters alone toward application support, certification capability, solution bundling, and depth of customer integration. Companies able to combine devices, circuits, testing, regulation, and use-case knowledge into a complete solution will be best positioned to secure stronger pricing power and deeper customer stickiness.

At the same time, this market carries meaningful challenges and risks. Product definitions remain inconsistent across the industry, with terms such as TVS thyristor, TSS, SIDACtor, and protection thyristor often used in parallel, creating confusion in procurement, market sizing, substitution logic, and customer communication. In addition, while thyristor-based surge suppressors offer advantages in high surge handling and low-voltage energy diversion paths, their holding current behavior, dynamic response, coordination with fuses or current-limiting elements, and interaction with GDTs, MOVs, and TVS diodes demand more disciplined application engineering. Poor design integration can lead to nuisance triggering, follow current issues, or weak system recovery behavior. Meanwhile, customers continue to raise the bar on miniaturization, low capacitance, high-speed signal compatibility, and multi-standard compliance, forcing manufacturers to strengthen not only wafer processing, packaging, and screening, but also field application engineering, failure analysis, and global delivery support. In practical terms, this is not a market that can be won by production scale alone; it is a specialist arena where technical credibility, validation depth, and brand trust define the competitive frontier.

From a downstream perspective, demand for TVS thyristors is gradually shifting beyond traditional fixed telecom networks toward broader electronic systems characterized by high connection density, high interface exposure, and stringent reliability requirements. Telephone lines, DSL infrastructure, security systems, industrial buses, and instrumentation ports remain foundational applications, but the more important emerging demand is now coming from industrial control cabinets, energy conversion equipment, transport electronics, edge gateways, smart buildings, charging infrastructure, and in-vehicle communication links. In these applications, surge protection is increasingly treated not as an isolated component choice, but as part of the overall equipment reliability architecture. As a result, customer purchasing behavior is evolving from buying a single protection device to qualifying a validated interface

protection solution, with greater emphasis on coordination among the device, PCB layout, grounding topology, EMC testing, regulatory compliance, and lifetime performance models. For market participants, downstream demand is therefore unlikely to favor the lowest-cost supplier alone; instead, it will increasingly reward products and solution providers capable of balancing protection performance, signal integrity, compliance pass rates, and total lifecycle cost. This dynamic gives the category a strategic importance far beyond its size as a discrete component niche and makes it highly relevant within broader high-reliability electronics platforms.

This report studies the global TVS Thyristor production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global TVS Thyristor total production and demand, 2021-2032, (K Units)

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

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

Global TVS Thyristor consumption by region & country, CAGR, 2021-2032 & (K Units)

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

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

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

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

This report profiles key players in the global TVS Thyristor 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 STMicroelectronics, onsemi, Microchip, YAGEO, Littelfuse, Diodes, Bourns, Micro Commercial Co, ProTek Devices, JMMicroelectronics, 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 TVS Thyristor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (USD/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 TVS Thyristor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global TVS Thyristor Market, Segmentation by Type:

High Power Thyristor

Medium Power Thyristor

Low Power Thyristor

Global TVS Thyristor Market, Segmentation by Polarity Configuration:

Unidirectional

Bidirectional

Global TVS Thyristor Market, Segmentation by Protected Line Count:

Single-Line

Dual-Line

Multi-Line

Global TVS Thyristor Market, Segmentation by End-Use Qualification Grade:

General-Purpose Grade

Industrial Grade

Automotive Grade

Telecom Network Grade

Global TVS Thyristor Market, Segmentation by Application:

Commercial Use

Industrial Use

Companies Profiled:

STMicroelectronics

onsemi

Microchip

YAGEO

Littelfuse

Diodes

Bourns

Micro Commercial Co

ProTek Devices

JJMicroelectronics

WAYON

Shandong Xinnuo Electronic

SETsafe

SOCAY

Semiware

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World TVS Thyristor Production Value by Manufacturer (2021-2026)

3.2 World TVS Thyristor Production by Manufacturer (2021-2026)

3.3 World TVS Thyristor Average Price by Manufacturer (2021-2026)

3.4 TVS Thyristor Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global TVS Thyristor Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for TVS Thyristor in 2025

3.5.3 Global Concentration Ratios (CR8) for TVS Thyristor in 2025

3.6 TVS Thyristor Market: Overall Company Footprint Analysis

3.6.1 TVS Thyristor Market: Region Footprint

3.6.2 TVS Thyristor Market: Company Product Type Footprint

3.6.3 TVS Thyristor 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: TVS Thyristor Production Value Comparison

4.1.1 United States VS China: TVS Thyristor Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: TVS Thyristor Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: TVS Thyristor Production Comparison

4.2.1 United States VS China: TVS Thyristor Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: TVS Thyristor Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: TVS Thyristor Consumption Comparison

4.3.1 United States VS China: TVS Thyristor Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: TVS Thyristor Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based TVS Thyristor Manufacturers and Market Share, 2021-2026

4.4.1 United States Based TVS Thyristor Manufacturers, Headquarters and Production

Site (States, Country)

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

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

4.5 China Based TVS Thyristor Manufacturers and Market Share

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

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

4.5.3 China Based Manufacturers TVS Thyristor Production (2021-2026)

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

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

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

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

5 MARKET ANALYSIS BY TYPE

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

5.2 Segment Introduction by Type

5.2.1 High Power Thyristor

5.2.2 Medium Power Thyristor

5.2.3 Low Power Thyristor

5.3 Market Segment by Type

5.3.1 World TVS Thyristor Production by Type (2021-2032)

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

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

6 MARKET ANALYSIS BY POLARITY CONFIGURATION

6.1 World TVS Thyristor Market Size Overview by Polarity Configuration: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Polarity Configuration

6.2.1 Unidirectional

6.2.2 Bidirectional

6.3 Market Segment by Polarity Configuration

6.3.1 World TVS Thyristor Production by Polarity Configuration (2021-2032)

6.3.2 World TVS Thyristor Production Value by Polarity Configuration (2021-2032)

6.3.3 World TVS Thyristor Average Price by Polarity Configuration (2021-2032)

7 MARKET ANALYSIS BY PROTECTED LINE COUNT

7.1 World TVS Thyristor Market Size Overview by Protected Line Count: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Protected Line Count

7.2.1 Single-Line

7.2.2 Dual-Line

7.2.3 Multi-Line

7.3 Market Segment by Protected Line Count

7.3.1 World TVS Thyristor Production by Protected Line Count (2021-2032)

7.3.2 World TVS Thyristor Production Value by Protected Line Count (2021-2032)

7.3.3 World TVS Thyristor Average Price by Protected Line Count (2021-2032)

8 MARKET ANALYSIS BY END-USE QUALIFICATION GRADE

8.1 World TVS Thyristor Market Size Overview by End-Use Qualification Grade: 2021 VS 2025 VS 2032

8.2 Segment Introduction by End-Use Qualification Grade

8.2.1 General-Purpose Grade

8.2.2 Industrial Grade

8.2.3 Automotive Grade

8.2.4 Telecom Network Grade

8.3 Market Segment by End-Use Qualification Grade

8.3.1 World TVS Thyristor Production by End-Use Qualification Grade (2021-2032)

8.3.2 World TVS Thyristor Production Value by End-Use Qualification Grade (2021-2032)

8.3.3 World TVS Thyristor Average Price by End-Use Qualification Grade (2021-2032)

9 MARKET ANALYSIS BY APPLICATION

9.1 World TVS Thyristor Market Size Overview by Application: 2021 VS 2025 VS 2032

9.2 Segment Introduction by Application

9.2.1 Commercial Use

9.2.2 Industrial Use

9.3 Market Segment by Application

9.3.1 World TVS Thyristor Production by Application (2021-2032)

9.3.2 World TVS Thyristor Production Value by Application (2021-2032)

9.3.3 World TVS Thyristor Average Price by Application (2021-2032)

10 COMPANY PROFILES

10.1 STMicroelectronics

10.1.1 STMicroelectronics Details

10.1.2 STMicroelectronics Major Business

10.1.3 STMicroelectronics TVS Thyristor Product and Services

10.1.4 STMicroelectronics TVS Thyristor Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.1.5 STMicroelectronics Recent Developments/Updates

10.1.6 STMicroelectronics Competitive Strengths & Weaknesses

10.2 onsemi

10.2.1 onsemi Details

10.2.2 onsemi Major Business

10.2.3 onsemi TVS Thyristor Product and Services

10.2.4 onsemi TVS Thyristor Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.2.5 onsemi Recent Developments/Updates

10.2.6 onsemi Competitive Strengths & Weaknesses

10.3 Microchip

10.3.1 Microchip Details

10.3.2 Microchip Major Business

10.3.3 Microchip TVS Thyristor Product and Services

10.3.4 Microchip TVS Thyristor Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.3.5 Microchip Recent Developments/Updates

10.3.6 Microchip Competitive Strengths & Weaknesses

10.4 YAGEO

10.4.1 YAGEO Details

10.4.2 YAGEO Major Business

10.4.3 YAGEO TVS Thyristor Product and Services

10.4.4 YAGEO TVS Thyristor Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.4.5 YAGEO Recent Developments/Updates

10.4.6 YAGEO Competitive Strengths & Weaknesses

10.5 Littelfuse

10.5.1 Littelfuse Details

10.5.2 Littelfuse Major Business

10.5.3 Littelfuse TVS Thyristor Product and Services

10.5.4 Littelfuse TVS Thyristor Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 10.5.5 Littelfuse Recent Developments/Updates
- 10.5.6 Littelfuse Competitive Strengths & Weaknesses
- 10.6 Diodes
 - 10.6.1 Diodes Details
 - 10.6.2 Diodes Major Business
 - 10.6.3 Diodes TVS Thyristor Product and Services
 - 10.6.4 Diodes TVS Thyristor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.6.5 Diodes Recent Developments/Updates
 - 10.6.6 Diodes Competitive Strengths & Weaknesses
- 10.7 Bourns
 - 10.7.1 Bourns Details
 - 10.7.2 Bourns Major Business
 - 10.7.3 Bourns TVS Thyristor Product and Services
 - 10.7.4 Bourns TVS Thyristor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.7.5 Bourns Recent Developments/Updates
 - 10.7.6 Bourns Competitive Strengths & Weaknesses
- 10.8 Micro Commercial Co
 - 10.8.1 Micro Commercial Co Details
 - 10.8.2 Micro Commercial Co Major Business
 - 10.8.3 Micro Commercial Co TVS Thyristor Product and Services
 - 10.8.4 Micro Commercial Co TVS Thyristor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.8.5 Micro Commercial Co Recent Developments/Updates
 - 10.8.6 Micro Commercial Co Competitive Strengths & Weaknesses
- 10.9 ProTek Devices
 - 10.9.1 ProTek Devices Details
 - 10.9.2 ProTek Devices Major Business
 - 10.9.3 ProTek Devices TVS Thyristor Product and Services
 - 10.9.4 ProTek Devices TVS Thyristor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.9.5 ProTek Devices Recent Developments/Updates
 - 10.9.6 ProTek Devices Competitive Strengths & Weaknesses
- 10.10 JMicroelectronics
 - 10.10.1 JMicroelectronics Details
 - 10.10.2 JMicroelectronics Major Business
 - 10.10.3 JMicroelectronics TVS Thyristor Product and Services
 - 10.10.4 JMicroelectronics TVS Thyristor Production, Price, Value, Gross Margin and

Market Share (2021-2026)

10.10.5 JJMicroelectronics Recent Developments/Updates

10.10.6 JJMicroelectronics Competitive Strengths & Weaknesses

10.11 WAYON

10.11.1 WAYON Details

10.11.2 WAYON Major Business

10.11.3 WAYON TVS Thyristor Product and Services

10.11.4 WAYON TVS Thyristor Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.11.5 WAYON Recent Developments/Updates

10.11.6 WAYON Competitive Strengths & Weaknesses

10.12 Shandong Xinnuo Electronic

10.12.1 Shandong Xinnuo Electronic Details

10.12.2 Shandong Xinnuo Electronic Major Business

10.12.3 Shandong Xinnuo Electronic TVS Thyristor Product and Services

10.12.4 Shandong Xinnuo Electronic TVS Thyristor Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.12.5 Shandong Xinnuo Electronic Recent Developments/Updates

10.12.6 Shandong Xinnuo Electronic Competitive Strengths & Weaknesses

10.13 SETsafe

10.13.1 SETsafe Details

10.13.2 SETsafe Major Business

10.13.3 SETsafe TVS Thyristor Product and Services

10.13.4 SETsafe TVS Thyristor Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.13.5 SETsafe Recent Developments/Updates

10.13.6 SETsafe Competitive Strengths & Weaknesses

10.14 SOCAY

10.14.1 SOCAY Details

10.14.2 SOCAY Major Business

10.14.3 SOCAY TVS Thyristor Product and Services

10.14.4 SOCAY TVS Thyristor Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.14.5 SOCAY Recent Developments/Updates

10.14.6 SOCAY Competitive Strengths & Weaknesses

10.15 Semiware

10.15.1 Semiware Details

10.15.2 Semiware Major Business

10.15.3 Semiware TVS Thyristor Product and Services

10.15.4 Semiware TVS Thyristor Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.15.5 Semiware Recent Developments/Updates

10.15.6 Semiware Competitive Strengths & Weaknesses

11 INDUSTRY CHAIN ANALYSIS

11.1 TVS Thyristor Industry Chain

11.2 TVS Thyristor Upstream Analysis

11.2.1 TVS Thyristor Core Raw Materials

11.2.2 Main Manufacturers of TVS Thyristor Core Raw Materials

11.3 Midstream Analysis

11.4 Downstream Analysis

11.5 TVS Thyristor Production Mode

11.6 TVS Thyristor Procurement Model

11.7 TVS Thyristor Industry Sales Model and Sales Channels

11.7.1 TVS Thyristor Sales Model

11.7.2 TVS Thyristor Typical Distributors

12 RESEARCH FINDINGS AND CONCLUSION

13 APPENDIX

13.1 Methodology

13.2 Research Process and Data Source

13.3 Disclaimer

List Of Tables

LIST OF TABLES

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

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

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

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

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

Table 6. World TVS Thyristor Production by Region (2021-2026) & (K Units)

Table 7. World TVS Thyristor Production by Region (2027-2032) & (K Units)

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

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

Table 10. World TVS Thyristor Average Price by Region (2021-2026) & (USD/Unit)

Table 11. World TVS Thyristor Average Price by Region (2027-2032) & (USD/Unit)

Table 12. TVS Thyristor Major Market Trends

Table 13. World TVS Thyristor Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World TVS Thyristor Consumption by Region (2021-2026) & (K Units)

Table 15. World TVS Thyristor Consumption Forecast by Region (2027-2032) & (K Units)

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

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

Table 18. World TVS Thyristor Production by Manufacturer (2021-2026) & (K Units)

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

Table 20. World TVS Thyristor Average Price by Manufacturer (2021-2026) & (USD/Unit)

Table 21. Global TVS Thyristor Company Evaluation Quadrant

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

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

Table 24. TVS Thyristor Market: Company Product Type Footprint

Table 25. TVS Thyristor Market: Company Product Application Footprint

Table 26. TVS Thyristor Competitive Factors

Table 27. TVS Thyristor New Entrant and Capacity Expansion Plans

Table 28. TVS Thyristor Mergers & Acquisitions Activity

Table 29. United States VS China TVS Thyristor Production Value Comparison, (2021 &

2025 & 2032) & (USD Million)

Table 30. United States VS China TVS Thyristor Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China TVS Thyristor Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

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

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

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

Table 35. United States Based Manufacturers TVS Thyristor Production (2021-2026) & (K Units)

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

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

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

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

Table 40. China Based Manufacturers TVS Thyristor Production, (2021-2026) & (K Units)

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

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

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

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

Table 45. Rest of World Based Manufacturers TVS Thyristor Production, (2021-2026) & (K Units)

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

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

Table 48. World TVS Thyristor Production by Type (2021-2026) & (K Units)

Table 49. World TVS Thyristor Production by Type (2027-2032) & (K Units)

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

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

Table 52. World TVS Thyristor Average Price by Type (2021-2026) & (USD/Unit)

Table 53. World TVS Thyristor Average Price by Type (2027-2032) & (USD/Unit)

Table 54. World TVS Thyristor Production Value by Polarity Configuration, (USD Million), 2021 & 2025 & 2032

Table 55. World TVS Thyristor Production by Polarity Configuration (2021-2026) & (K Units)

Table 56. World TVS Thyristor Production by Polarity Configuration (2027-2032) & (K Units)

Table 57. World TVS Thyristor Production Value by Polarity Configuration (2021-2026) & (USD Million)

Table 58. World TVS Thyristor Production Value by Polarity Configuration (2027-2032) & (USD Million)

Table 59. World TVS Thyristor Average Price by Polarity Configuration (2021-2026) & (USD/Unit)

Table 60. World TVS Thyristor Average Price by Polarity Configuration (2027-2032) & (USD/Unit)

Table 61. World TVS Thyristor Production Value by Protected Line Count, (USD Million), 2021 & 2025 & 2032

Table 62. World TVS Thyristor Production by Protected Line Count (2021-2026) & (K Units)

Table 63. World TVS Thyristor Production by Protected Line Count (2027-2032) & (K Units)

Table 64. World TVS Thyristor Production Value by Protected Line Count (2021-2026) & (USD Million)

Table 65. World TVS Thyristor Production Value by Protected Line Count (2027-2032) & (USD Million)

Table 66. World TVS Thyristor Average Price by Protected Line Count (2021-2026) & (USD/Unit)

Table 67. World TVS Thyristor Average Price by Protected Line Count (2027-2032) & (USD/Unit)

Table 68. World TVS Thyristor Production Value by End-Use Qualification Grade, (USD Million), 2021 & 2025 & 2032

Table 69. World TVS Thyristor Production by End-Use Qualification Grade (2021-2026) & (K Units)

Table 70. World TVS Thyristor Production by End-Use Qualification Grade (2027-2032) & (K Units)

Table 71. World TVS Thyristor Production Value by End-Use Qualification Grade

(2021-2026) & (USD Million)

Table 72. World TVS Thyristor Production Value by End-Use Qualification Grade
(2027-2032) & (USD Million)

Table 73. World TVS Thyristor Average Price by End-Use Qualification Grade
(2021-2026) & (USD/Unit)

Table 74. World TVS Thyristor Average Price by End-Use Qualification Grade
(2027-2032) & (USD/Unit)

Table 75. World TVS Thyristor Production Value by Application, (USD Million), 2021 &
2025 & 2032

Table 76. World TVS Thyristor Production by Application (2021-2026) & (K Units)

Table 77. World TVS Thyristor Production by Application (2027-2032) & (K Units)

Table 78. World TVS Thyristor Production Value by Application (2021-2026) & (USD
Million)

Table 79. World TVS Thyristor Production Value by Application (2027-2032) & (USD
Million)

Table 80. World TVS Thyristor Average Price by Application (2021-2026) & (USD/Unit)

Table 81. World TVS Thyristor Average Price by Application (2027-2032) & (USD/Unit)

Table 82. STMicroelectronics Basic Information, Manufacturing Base and Competitors

Table 83. STMicroelectronics Major Business

Table 84. STMicroelectronics TVS Thyristor Product and Services

Table 85. STMicroelectronics TVS Thyristor Production (K Units), Price (USD/Unit),
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 86. STMicroelectronics Recent Developments/Updates

Table 87. STMicroelectronics Competitive Strengths & Weaknesses

Table 88. onsemi Basic Information, Manufacturing Base and Competitors

Table 89. onsemi Major Business

Table 90. onsemi TVS Thyristor Product and Services

Table 91. onsemi TVS Thyristor Production (K Units), Price (USD/Unit), Production
Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 92. onsemi Recent Developments/Updates

Table 93. onsemi Competitive Strengths & Weaknesses

Table 94. Microchip Basic Information, Manufacturing Base and Competitors

Table 95. Microchip Major Business

Table 96. Microchip TVS Thyristor Product and Services

Table 97. Microchip TVS Thyristor Production (K Units), Price (USD/Unit), Production
Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 98. Microchip Recent Developments/Updates

Table 99. Microchip Competitive Strengths & Weaknesses

Table 100. YAGEO Basic Information, Manufacturing Base and Competitors

Table 101. YAGEO Major Business

Table 102. YAGEO TVS Thyristor Product and Services

Table 103. YAGEO TVS Thyristor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 104. YAGEO Recent Developments/Updates

Table 105. YAGEO Competitive Strengths & Weaknesses

Table 106. Littelfuse Basic Information, Manufacturing Base and Competitors

Table 107. Littelfuse Major Business

Table 108. Littelfuse TVS Thyristor Product and Services

Table 109. Littelfuse TVS Thyristor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 110. Littelfuse Recent Developments/Updates

Table 111. Littelfuse Competitive Strengths & Weaknesses

Table 112. Diodes Basic Information, Manufacturing Base and Competitors

Table 113. Diodes Major Business

Table 114. Diodes TVS Thyristor Product and Services

Table 115. Diodes TVS Thyristor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 116. Diodes Recent Developments/Updates

Table 117. Diodes Competitive Strengths & Weaknesses

Table 118. Bourns Basic Information, Manufacturing Base and Competitors

Table 119. Bourns Major Business

Table 120. Bourns TVS Thyristor Product and Services

Table 121. Bourns TVS Thyristor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 122. Bourns Recent Developments/Updates

Table 123. Bourns Competitive Strengths & Weaknesses

Table 124. Micro Commercial Co Basic Information, Manufacturing Base and Competitors

Table 125. Micro Commercial Co Major Business

Table 126. Micro Commercial Co TVS Thyristor Product and Services

Table 127. Micro Commercial Co TVS Thyristor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 128. Micro Commercial Co Recent Developments/Updates

Table 129. Micro Commercial Co Competitive Strengths & Weaknesses

Table 130. ProTek Devices Basic Information, Manufacturing Base and Competitors

Table 131. ProTek Devices Major Business

Table 132. ProTek Devices TVS Thyristor Product and Services

Table 133. ProTek Devices TVS Thyristor Production (K Units), Price (USD/Unit),

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

Table 134. ProTek Devices Recent Developments/Updates

Table 135. ProTek Devices Competitive Strengths & Weaknesses

Table 136. JJMicroelectronics Basic Information, Manufacturing Base and Competitors

Table 137. JJMicroelectronics Major Business

Table 138. JJMicroelectronics TVS Thyristor Product and Services

Table 139. JJMicroelectronics TVS Thyristor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 140. JJMicroelectronics Recent Developments/Updates

Table 141. JJMicroelectronics Competitive Strengths & Weaknesses

Table 142. WAYON Basic Information, Manufacturing Base and Competitors

Table 143. WAYON Major Business

Table 144. WAYON TVS Thyristor Product and Services

Table 145. WAYON TVS Thyristor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 146. WAYON Recent Developments/Updates

Table 147. WAYON Competitive Strengths & Weaknesses

Table 148. Shandong Xinnuo Electronic Basic Information, Manufacturing Base and Competitors

Table 149. Shandong Xinnuo Electronic Major Business

Table 150. Shandong Xinnuo Electronic TVS Thyristor Product and Services

Table 151. Shandong Xinnuo Electronic TVS Thyristor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 152. Shandong Xinnuo Electronic Recent Developments/Updates

Table 153. Shandong Xinnuo Electronic Competitive Strengths & Weaknesses

Table 154. SETsafe Basic Information, Manufacturing Base and Competitors

Table 155. SETsafe Major Business

Table 156. SETsafe TVS Thyristor Product and Services

Table 157. SETsafe TVS Thyristor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 158. SETsafe Recent Developments/Updates

Table 159. SETsafe Competitive Strengths & Weaknesses

Table 160. SOCAY Basic Information, Manufacturing Base and Competitors

Table 161. SOCAY Major Business

Table 162. SOCAY TVS Thyristor Product and Services

Table 163. SOCAY TVS Thyristor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 164. SOCAY Recent Developments/Updates

Table 165. SOCAT Competitive Strengths & Weaknesses

Table 166. Semiware Basic Information, Manufacturing Base and Competitors

Table 167. Semiware Major Business

Table 168. Semiware TVS Thyristor Product and Services

Table 169. Semiware TVS Thyristor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 170. Semiware Recent Developments/Updates

Table 171. Semiware Competitive Strengths & Weaknesses

Table 172. Global Key Players of TVS Thyristor Upstream (Raw Materials)

Table 173. Global TVS Thyristor Typical Customers

Table 174. TVS Thyristor Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. TVS Thyristor Picture

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

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

Figure 4. World TVS Thyristor Production (2021-2032) & (K Units)

Figure 5. World TVS Thyristor Average Price (2021-2032) & (USD/Unit)

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

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

Figure 8. North America TVS Thyristor Production (2021-2032) & (K Units)

Figure 9. Europe TVS Thyristor Production (2021-2032) & (K Units)

Figure 10. China TVS Thyristor Production (2021-2032) & (K Units)

Figure 11. Japan TVS Thyristor Production (2021-2032) & (K Units)

Figure 12. Mexico TVS Thyristor Production (2021-2032) & (K Units)

Figure 13. Taiwan TVS Thyristor Production (2021-2032) & (K Units)

Figure 14. TVS Thyristor Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World TVS Thyristor Consumption (2021-2032) & (K Units)

Figure 17. World TVS Thyristor Consumption Market Share by Region (2021-2032)

Figure 18. United States TVS Thyristor Consumption (2021-2032) & (K Units)

Figure 19. China TVS Thyristor Consumption (2021-2032) & (K Units)

Figure 20. Europe TVS Thyristor Consumption (2021-2032) & (K Units)

Figure 21. Japan TVS Thyristor Consumption (2021-2032) & (K Units)

Figure 22. South Korea TVS Thyristor Consumption (2021-2032) & (K Units)

Figure 23. ASEAN TVS Thyristor Consumption (2021-2032) & (K Units)

Figure 24. India TVS Thyristor Consumption (2021-2032) & (K Units)

Figure 25. Producer Shipments of TVS Thyristor by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for TVS Thyristor Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for TVS Thyristor Markets in 2025

Figure 28. United States VS China: TVS Thyristor Production Value Market Share Comparison (2021 & 2025 & 2032)

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

Figure 30. United States VS China: TVS Thyristor Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers TVS Thyristor Production Market Share 2025

Figure 32. China Based Manufacturers TVS Thyristor Production Market Share 2025

Figure 33. Rest of World Based Manufacturers TVS Thyristor Production Market Share 2025

Figure 34. World TVS Thyristor Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World TVS Thyristor Production Value Market Share by Type in 2025

Figure 36. High Power Thyristor

Figure 37. Medium Power Thyristor

Figure 38. Low Power Thyristor

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

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

Figure 41. World TVS Thyristor Average Price by Type (2021-2032) & (USD/Unit)

Figure 42. World TVS Thyristor Production Value by Polarity Configuration, (USD Million), 2021 & 2025 & 2032

Figure 43. World TVS Thyristor Production Value Market Share by Polarity Configuration in 2025

Figure 44. Unidirectional

Figure 45. Bidirectional

Figure 46. World TVS Thyristor Production Market Share by Polarity Configuration (2021-2032)

Figure 47. World TVS Thyristor Production Value Market Share by Polarity Configuration (2021-2032)

Figure 48. World TVS Thyristor Average Price by Polarity Configuration (2021-2032) & (USD/Unit)

Figure 49. World TVS Thyristor Production Value by Protected Line Count, (USD Million), 2021 & 2025 & 2032

Figure 50. World TVS Thyristor Production Value Market Share by Protected Line Count in 2025

Figure 51. Single-Line

Figure 52. Dual-Line

Figure 53. Multi-Line

Figure 54. World TVS Thyristor Production Market Share by Protected Line Count (2021-2032)

Figure 55. World TVS Thyristor Production Value Market Share by Protected Line Count (2021-2032)

Figure 56. World TVS Thyristor Average Price by Protected Line Count (2021-2032) & (USD/Unit)

Figure 57. World TVS Thyristor Production Value by End-Use Qualification Grade, (USD Million), 2021 & 2025 & 2032

Figure 58. World TVS Thyristor Production Value Market Share by End-Use Qualification Grade in 2025

Figure 59. General-Purpose Grade

Figure 60. Industrial Grade

Figure 61. Automotive Grade

Figure 62. Telecom Network Grade

Figure 63. World TVS Thyristor Production Market Share by End-Use Qualification Grade (2021-2032)

Figure 64. World TVS Thyristor Production Value Market Share by End-Use Qualification Grade (2021-2032)

Figure 65. World TVS Thyristor Average Price by End-Use Qualification Grade (2021-2032) & (USD/Unit)

Figure 66. World TVS Thyristor Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 67. World TVS Thyristor Production Value Market Share by Application in 2025

Figure 68. Commercial Use

Figure 69. Industrial Use

Figure 70. World TVS Thyristor Production Market Share by Application (2021-2032)

Figure 71. World TVS Thyristor Production Value Market Share by Application (2021-2032)

Figure 72. World TVS Thyristor Average Price by Application (2021-2032) & (USD/Unit)

Figure 73. TVS Thyristor Industry Chain

Figure 74. TVS Thyristor Procurement Model

Figure 75. TVS Thyristor Sales Model

Figure 76. TVS Thyristor Sales Channels, Direct Sales, and Distribution

Figure 77. Methodology

Figure 78. Research Process and Data Source

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