

# Global Transient Voltage Suppressor (TVS) Market Growth 2025-2031

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## Abstracts

The global Transient Voltage Suppressor (TVS) market size is predicted to grow from US\$ 2557 million in 2025 to US\$ 3283 million in 2031; it is expected to grow at a CAGR of 4.3% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

The Transient Voltage Suppressor (TVS) is a type of semiconductor device designed to protect electronic circuits from transient high-energy voltage pulses. It can respond in an extremely short time (typically in the picosecond range) to clamp surge voltages—caused by lightning, electromagnetic interference, inductive load switching, or electrostatic discharge—within a safe range, thereby preventing damage to components or degradation of circuit performance.

TVS devices are characterized by low capacitance, fast response, and strong energy absorption capability. When the voltage exceeds the breakdown threshold, the device conducts rapidly to divert excess energy to ground. Once the overvoltage condition subsides, the TVS returns to a high-impedance state, exerting minimal impact on the circuit. Based on structure, TVS devices can be categorized into unidirectional and bidirectional types. They are widely used in communication systems, automotive electronics, consumer electronics, power supplies, and industrial control systems, serving as a critical component for surge protection in electronic systems.

As electronic devices continue to shrink in size and face increasing electromagnetic compatibility (EMC) requirements, TVS devices have evolved in performance and

integration. They have become a core technology in ensuring the reliability and safety of modern electronic systems.

### Market Development Opportunities and Key Driving Factors

With the global trend toward high integration, low power consumption, and high reliability in electronic devices, the Transient Voltage Suppressor (TVS) market is experiencing significant growth potential. High-growth sectors such as new energy vehicles, 5G communications, industrial automation, and consumer electronics are driving continuous demand for circuit protection. This is accelerating the development of TVS devices toward miniaturization, faster response times, and higher energy handling capabilities. Additionally, the tightening of global standards on ESD protection and electromagnetic compatibility (EMC) is promoting broader adoption of TVS products, making these regulatory shifts a key market driver.

### Market Challenges and Risks

Despite the positive outlook, the TVS industry faces several challenges. These include raw material price fluctuations, intensified competition due to relatively low technical entry barriers, and stringent requirements for product consistency and performance stability in high-end applications. Furthermore, strong cost-control demands from downstream customers are putting pressure on profit margins in the mid-to-low-end market. Uncertainties in international trade and geopolitical tensions may also disrupt supply chain stability, hindering the global expansion efforts of some manufacturers.

### Downstream Demand Trends

The demand for TVS devices is becoming increasingly diversified, particularly with growing applications in automotive electronics and smart terminals, such as ADAS systems, battery management systems, and high-speed interface protection. The adoption of high-speed transmission standards like USB4.0 and Thunderbolt, along with the rise of wireless charging and IoT devices, is driving strong demand for ultra-low capacitance, wide operating voltage range, and flexible packaging. This trend is pushing TVS products toward higher performance and greater customization.

LP Information, Inc. (LPI) ' newest research report, the “Transient Voltage Suppressor (TVS) Industry Forecast” looks at past sales and reviews total world Transient Voltage Suppressor (TVS) sales in 2024, providing a comprehensive analysis by region and market sector of projected Transient Voltage Suppressor (TVS) sales for 2025 through

2031. With Transient Voltage Suppressor (TVS) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Transient Voltage Suppressor (TVS) industry.

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

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

This report presents a comprehensive overview, market shares, and growth opportunities of Transient Voltage Suppressor (TVS) market by product type, application, key manufacturers and key regions and countries.

#### Segmentation by Type:

Uni-polar TVS

Bi-polar TVS

#### Segmentation by Application:

Consumer Electronic

Automotive Electronics

Power Supplies

Industrial

Computer

Telecommunications

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

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

Littelfuse

Vishay

STMicroelectronics

ON Semiconductor

Bourns

Infineon

BrightKing

Nexperia

ANOVA

Diodes Inc.

Amazing

ONCHIP

SEMTECH

MDE

TOSHIBA

EIC

PROTEK

WAYON

INPAQ

SOCAY

UN Semiconductor

Microchip Technology

Bencent

TOREX

OmniVision

Key Questions Addressed in this Report

What is the 10-year outlook for the global Transient Voltage Suppressor (TVS) market?  
What factors are driving Transient Voltage Suppressor (TVS) market growth, globally and by region?

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

How do Transient Voltage Suppressor (TVS) market opportunities vary by end market size?

How does Transient Voltage Suppressor (TVS) break out by Type, by Application?

## Contents

### 1 SCOPE OF THE REPORT

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

### 2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
  - 2.1.1 Global Transient Voltage Suppressor (TVS) Annual Sales 2020-2031
  - 2.1.2 World Current & Future Analysis for Transient Voltage Suppressor (TVS) by Geographic Region, 2020, 2024 & 2031
  - 2.1.3 World Current & Future Analysis for Transient Voltage Suppressor (TVS) by Country/Region, 2020, 2024 & 2031
- 2.2 Transient Voltage Suppressor (TVS) Segment by Type
  - 2.2.1 Uni-polar TVS
  - 2.2.2 Bi-polar TVS
- 2.3 Transient Voltage Suppressor (TVS) Sales by Type
  - 2.3.1 Global Transient Voltage Suppressor (TVS) Sales Market Share by Type (2020-2025)
  - 2.3.2 Global Transient Voltage Suppressor (TVS) Revenue and Market Share by Type (2020-2025)
  - 2.3.3 Global Transient Voltage Suppressor (TVS) Sale Price by Type (2020-2025)
- 2.4 Transient Voltage Suppressor (TVS) Segment by Application
  - 2.4.1 Consumer Electronic
  - 2.4.2 Automotive Electronics
  - 2.4.3 Power Supplies
  - 2.4.4 Industrial
  - 2.4.5 Computer
  - 2.4.6 Telecommunications
  - 2.4.7 Others
- 2.5 Transient Voltage Suppressor (TVS) Sales by Application

2.5.1 Global Transient Voltage Suppressor (TVS) Sale Market Share by Application (2020-2025)

2.5.2 Global Transient Voltage Suppressor (TVS) Revenue and Market Share by Application (2020-2025)

2.5.3 Global Transient Voltage Suppressor (TVS) Sale Price by Application (2020-2025)

### **3 GLOBAL BY COMPANY**

3.1 Global Transient Voltage Suppressor (TVS) Breakdown Data by Company

3.1.1 Global Transient Voltage Suppressor (TVS) Annual Sales by Company (2020-2025)

3.1.2 Global Transient Voltage Suppressor (TVS) Sales Market Share by Company (2020-2025)

3.2 Global Transient Voltage Suppressor (TVS) Annual Revenue by Company (2020-2025)

3.2.1 Global Transient Voltage Suppressor (TVS) Revenue by Company (2020-2025)

3.2.2 Global Transient Voltage Suppressor (TVS) Revenue Market Share by Company (2020-2025)

3.3 Global Transient Voltage Suppressor (TVS) Sale Price by Company

3.4 Key Manufacturers Transient Voltage Suppressor (TVS) Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Transient Voltage Suppressor (TVS) Product Location Distribution

3.4.2 Players Transient Voltage Suppressor (TVS) Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

### **4 WORLD HISTORIC REVIEW FOR TRANSIENT VOLTAGE SUPPRESSOR (TVS) BY GEOGRAPHIC REGION**

4.1 World Historic Transient Voltage Suppressor (TVS) Market Size by Geographic Region (2020-2025)

4.1.1 Global Transient Voltage Suppressor (TVS) Annual Sales by Geographic Region (2020-2025)

4.1.2 Global Transient Voltage Suppressor (TVS) Annual Revenue by Geographic

Region (2020-2025)

4.2 World Historic Transient Voltage Suppressor (TVS) Market Size by Country/Region (2020-2025)

4.2.1 Global Transient Voltage Suppressor (TVS) Annual Sales by Country/Region (2020-2025)

4.2.2 Global Transient Voltage Suppressor (TVS) Annual Revenue by Country/Region (2020-2025)

4.3 Americas Transient Voltage Suppressor (TVS) Sales Growth

4.4 APAC Transient Voltage Suppressor (TVS) Sales Growth

4.5 Europe Transient Voltage Suppressor (TVS) Sales Growth

4.6 Middle East & Africa Transient Voltage Suppressor (TVS) Sales Growth

## **5 AMERICAS**

5.1 Americas Transient Voltage Suppressor (TVS) Sales by Country

5.1.1 Americas Transient Voltage Suppressor (TVS) Sales by Country (2020-2025)

5.1.2 Americas Transient Voltage Suppressor (TVS) Revenue by Country (2020-2025)

5.2 Americas Transient Voltage Suppressor (TVS) Sales by Type (2020-2025)

5.3 Americas Transient Voltage Suppressor (TVS) Sales by Application (2020-2025)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

## **6 APAC**

6.1 APAC Transient Voltage Suppressor (TVS) Sales by Region

6.1.1 APAC Transient Voltage Suppressor (TVS) Sales by Region (2020-2025)

6.1.2 APAC Transient Voltage Suppressor (TVS) Revenue by Region (2020-2025)

6.2 APAC Transient Voltage Suppressor (TVS) Sales by Type (2020-2025)

6.3 APAC Transient Voltage Suppressor (TVS) Sales by Application (2020-2025)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

## **7 EUROPE**

### 7.1 Europe Transient Voltage Suppressor (TVS) by Country

7.1.1 Europe Transient Voltage Suppressor (TVS) Sales by Country (2020-2025)

7.1.2 Europe Transient Voltage Suppressor (TVS) Revenue by Country (2020-2025)

### 7.2 Europe Transient Voltage Suppressor (TVS) Sales by Type (2020-2025)

### 7.3 Europe Transient Voltage Suppressor (TVS) Sales by Application (2020-2025)

#### 7.4 Germany

#### 7.5 France

#### 7.6 UK

#### 7.7 Italy

#### 7.8 Russia

## **8 MIDDLE EAST & AFRICA**

### 8.1 Middle East & Africa Transient Voltage Suppressor (TVS) by Country

8.1.1 Middle East & Africa Transient Voltage Suppressor (TVS) Sales by Country (2020-2025)

8.1.2 Middle East & Africa Transient Voltage Suppressor (TVS) Revenue by Country (2020-2025)

### 8.2 Middle East & Africa Transient Voltage Suppressor (TVS) Sales by Type (2020-2025)

### 8.3 Middle East & Africa Transient Voltage Suppressor (TVS) Sales by Application (2020-2025)

#### 8.4 Egypt

#### 8.5 South Africa

#### 8.6 Israel

#### 8.7 Turkey

#### 8.8 GCC Countries

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

### 9.1 Market Drivers & Growth Opportunities

### 9.2 Market Challenges & Risks

### 9.3 Industry Trends

## **10 MANUFACTURING COST STRUCTURE ANALYSIS**

### 10.1 Raw Material and Suppliers

- 10.2 Manufacturing Cost Structure Analysis of Transient Voltage Suppressor (TVS)
- 10.3 Manufacturing Process Analysis of Transient Voltage Suppressor (TVS)
- 10.4 Industry Chain Structure of Transient Voltage Suppressor (TVS)

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

- 11.1 Sales Channel
  - 11.1.1 Direct Channels
  - 11.1.2 Indirect Channels
- 11.2 Transient Voltage Suppressor (TVS) Distributors
- 11.3 Transient Voltage Suppressor (TVS) Customer

## **12 WORLD FORECAST REVIEW FOR TRANSIENT VOLTAGE SUPPRESSOR (TVS) BY GEOGRAPHIC REGION**

- 12.1 Global Transient Voltage Suppressor (TVS) Market Size Forecast by Region
  - 12.1.1 Global Transient Voltage Suppressor (TVS) Forecast by Region (2026-2031)
  - 12.1.2 Global Transient Voltage Suppressor (TVS) Annual Revenue Forecast by Region (2026-2031)
- 12.2 Americas Forecast by Country (2026-2031)
- 12.3 APAC Forecast by Region (2026-2031)
- 12.4 Europe Forecast by Country (2026-2031)
- 12.5 Middle East & Africa Forecast by Country (2026-2031)
- 12.6 Global Transient Voltage Suppressor (TVS) Forecast by Type (2026-2031)
- 12.7 Global Transient Voltage Suppressor (TVS) Forecast by Application (2026-2031)

## **13 KEY PLAYERS ANALYSIS**

- 13.1 Littelfuse
  - 13.1.1 Littelfuse Company Information
  - 13.1.2 Littelfuse Transient Voltage Suppressor (TVS) Product Portfolios and Specifications
  - 13.1.3 Littelfuse Transient Voltage Suppressor (TVS) Sales, Revenue, Price and Gross Margin (2020-2025)
  - 13.1.4 Littelfuse Main Business Overview
  - 13.1.5 Littelfuse Latest Developments
- 13.2 Vishay
  - 13.2.1 Vishay Company Information
  - 13.2.2 Vishay Transient Voltage Suppressor (TVS) Product Portfolios and

## Specifications

13.2.3 Vishay Transient Voltage Suppressor (TVS) Sales, Revenue, Price and Gross Margin (2020-2025)

13.2.4 Vishay Main Business Overview

13.2.5 Vishay Latest Developments

## 13.3 STMicroelectronics

13.3.1 STMicroelectronics Company Information

13.3.2 STMicroelectronics Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

13.3.3 STMicroelectronics Transient Voltage Suppressor (TVS) Sales, Revenue, Price and Gross Margin (2020-2025)

13.3.4 STMicroelectronics Main Business Overview

13.3.5 STMicroelectronics Latest Developments

## 13.4 ON Semiconductor

13.4.1 ON Semiconductor Company Information

13.4.2 ON Semiconductor Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

13.4.3 ON Semiconductor Transient Voltage Suppressor (TVS) Sales, Revenue, Price and Gross Margin (2020-2025)

13.4.4 ON Semiconductor Main Business Overview

13.4.5 ON Semiconductor Latest Developments

## 13.5 Bourns

13.5.1 Bourns Company Information

13.5.2 Bourns Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

13.5.3 Bourns Transient Voltage Suppressor (TVS) Sales, Revenue, Price and Gross Margin (2020-2025)

13.5.4 Bourns Main Business Overview

13.5.5 Bourns Latest Developments

## 13.6 Infineon

13.6.1 Infineon Company Information

13.6.2 Infineon Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

13.6.3 Infineon Transient Voltage Suppressor (TVS) Sales, Revenue, Price and Gross Margin (2020-2025)

13.6.4 Infineon Main Business Overview

13.6.5 Infineon Latest Developments

## 13.7 BrightKing

13.7.1 BrightKing Company Information

13.7.2 BrightKing Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

13.7.3 BrightKing Transient Voltage Suppressor (TVS) Sales, Revenue, Price and Gross Margin (2020-2025)

13.7.4 BrightKing Main Business Overview

13.7.5 BrightKing Latest Developments

13.8 Nexperia

13.8.1 Nexperia Company Information

13.8.2 Nexperia Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

13.8.3 Nexperia Transient Voltage Suppressor (TVS) Sales, Revenue, Price and Gross Margin (2020-2025)

13.8.4 Nexperia Main Business Overview

13.8.5 Nexperia Latest Developments

13.9 ANOVA

13.9.1 ANOVA Company Information

13.9.2 ANOVA Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

13.9.3 ANOVA Transient Voltage Suppressor (TVS) Sales, Revenue, Price and Gross Margin (2020-2025)

13.9.4 ANOVA Main Business Overview

13.9.5 ANOVA Latest Developments

13.10 Diodes Inc.

13.10.1 Diodes Inc. Company Information

13.10.2 Diodes Inc. Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

13.10.3 Diodes Inc. Transient Voltage Suppressor (TVS) Sales, Revenue, Price and Gross Margin (2020-2025)

13.10.4 Diodes Inc. Main Business Overview

13.10.5 Diodes Inc. Latest Developments

13.11 Amazing

13.11.1 Amazing Company Information

13.11.2 Amazing Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

13.11.3 Amazing Transient Voltage Suppressor (TVS) Sales, Revenue, Price and Gross Margin (2020-2025)

13.11.4 Amazing Main Business Overview

13.11.5 Amazing Latest Developments

13.12 ONCHIP

- 13.12.1 ONCHIP Company Information
- 13.12.2 ONCHIP Transient Voltage Suppressor (TVS) Product Portfolios and Specifications
- 13.12.3 ONCHIP Transient Voltage Suppressor (TVS) Sales, Revenue, Price and Gross Margin (2020-2025)
- 13.12.4 ONCHIP Main Business Overview
- 13.12.5 ONCHIP Latest Developments
- 13.13 SEMTECH
  - 13.13.1 SEMTECH Company Information
  - 13.13.2 SEMTECH Transient Voltage Suppressor (TVS) Product Portfolios and Specifications
  - 13.13.3 SEMTECH Transient Voltage Suppressor (TVS) Sales, Revenue, Price and Gross Margin (2020-2025)
  - 13.13.4 SEMTECH Main Business Overview
  - 13.13.5 SEMTECH Latest Developments
- 13.14 MDE
  - 13.14.1 MDE Company Information
  - 13.14.2 MDE Transient Voltage Suppressor (TVS) Product Portfolios and Specifications
  - 13.14.3 MDE Transient Voltage Suppressor (TVS) Sales, Revenue, Price and Gross Margin (2020-2025)
  - 13.14.4 MDE Main Business Overview
  - 13.14.5 MDE Latest Developments
- 13.15 TOSHIBA
  - 13.15.1 TOSHIBA Company Information
  - 13.15.2 TOSHIBA Transient Voltage Suppressor (TVS) Product Portfolios and Specifications
  - 13.15.3 TOSHIBA Transient Voltage Suppressor (TVS) Sales, Revenue, Price and Gross Margin (2020-2025)
  - 13.15.4 TOSHIBA Main Business Overview
  - 13.15.5 TOSHIBA Latest Developments
- 13.16 EIC
  - 13.16.1 EIC Company Information
  - 13.16.2 EIC Transient Voltage Suppressor (TVS) Product Portfolios and Specifications
  - 13.16.3 EIC Transient Voltage Suppressor (TVS) Sales, Revenue, Price and Gross Margin (2020-2025)
  - 13.16.4 EIC Main Business Overview
  - 13.16.5 EIC Latest Developments
- 13.17 PROTEK

- 13.17.1 PROTEK Company Information
- 13.17.2 PROTEK Transient Voltage Suppressor (TVS) Product Portfolios and Specifications
- 13.17.3 PROTEK Transient Voltage Suppressor (TVS) Sales, Revenue, Price and Gross Margin (2020-2025)
- 13.17.4 PROTEK Main Business Overview
- 13.17.5 PROTEK Latest Developments
- 13.18 WAYON
  - 13.18.1 WAYON Company Information
  - 13.18.2 WAYON Transient Voltage Suppressor (TVS) Product Portfolios and Specifications
  - 13.18.3 WAYON Transient Voltage Suppressor (TVS) Sales, Revenue, Price and Gross Margin (2020-2025)
  - 13.18.4 WAYON Main Business Overview
  - 13.18.5 WAYON Latest Developments
- 13.19 INPAQ
  - 13.19.1 INPAQ Company Information
  - 13.19.2 INPAQ Transient Voltage Suppressor (TVS) Product Portfolios and Specifications
  - 13.19.3 INPAQ Transient Voltage Suppressor (TVS) Sales, Revenue, Price and Gross Margin (2020-2025)
  - 13.19.4 INPAQ Main Business Overview
  - 13.19.5 INPAQ Latest Developments
- 13.20 SOCAY
  - 13.20.1 SOCAY Company Information
  - 13.20.2 SOCAY Transient Voltage Suppressor (TVS) Product Portfolios and Specifications
  - 13.20.3 SOCAY Transient Voltage Suppressor (TVS) Sales, Revenue, Price and Gross Margin (2020-2025)
  - 13.20.4 SOCAY Main Business Overview
  - 13.20.5 SOCAY Latest Developments
- 13.21 UN Semiconductor
  - 13.21.1 UN Semiconductor Company Information
  - 13.21.2 UN Semiconductor Transient Voltage Suppressor (TVS) Product Portfolios and Specifications
  - 13.21.3 UN Semiconductor Transient Voltage Suppressor (TVS) Sales, Revenue, Price and Gross Margin (2020-2025)
  - 13.21.4 UN Semiconductor Main Business Overview
  - 13.21.5 UN Semiconductor Latest Developments

### 13.22 Microchip Technology

13.22.1 Microchip Technology Company Information

13.22.2 Microchip Technology Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

13.22.3 Microchip Technology Transient Voltage Suppressor (TVS) Sales, Revenue, Price and Gross Margin (2020-2025)

13.22.4 Microchip Technology Main Business Overview

13.22.5 Microchip Technology Latest Developments

### 13.23 Bencent

13.23.1 Bencent Company Information

13.23.2 Bencent Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

13.23.3 Bencent Transient Voltage Suppressor (TVS) Sales, Revenue, Price and Gross Margin (2020-2025)

13.23.4 Bencent Main Business Overview

13.23.5 Bencent Latest Developments

### 13.24 TOREX

13.24.1 TOREX Company Information

13.24.2 TOREX Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

13.24.3 TOREX Transient Voltage Suppressor (TVS) Sales, Revenue, Price and Gross Margin (2020-2025)

13.24.4 TOREX Main Business Overview

13.24.5 TOREX Latest Developments

### 13.25 OmniVision

13.25.1 OmniVision Company Information

13.25.2 OmniVision Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

13.25.3 OmniVision Transient Voltage Suppressor (TVS) Sales, Revenue, Price and Gross Margin (2020-2025)

13.25.4 OmniVision Main Business Overview

13.25.5 OmniVision Latest Developments

## **14 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES

Table 1. Transient Voltage Suppressor (TVS) Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & (\$ millions)

Table 2. Transient Voltage Suppressor (TVS) Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ millions)

Table 3. Major Players of Uni-polar TVS

Table 4. Major Players of Bi-polar TVS

Table 5. Global Transient Voltage Suppressor (TVS) Sales by Type (2020-2025) & (K Units)

Table 6. Global Transient Voltage Suppressor (TVS) Sales Market Share by Type (2020-2025)

Table 7. Global Transient Voltage Suppressor (TVS) Revenue by Type (2020-2025) & (\$ million)

Table 8. Global Transient Voltage Suppressor (TVS) Revenue Market Share by Type (2020-2025)

Table 9. Global Transient Voltage Suppressor (TVS) Sale Price by Type (2020-2025) & (USD/Unit)

Table 10. Global Transient Voltage Suppressor (TVS) Sale by Application (2020-2025) & (K Units)

Table 11. Global Transient Voltage Suppressor (TVS) Sale Market Share by Application (2020-2025)

Table 12. Global Transient Voltage Suppressor (TVS) Revenue by Application (2020-2025) & (\$ million)

Table 13. Global Transient Voltage Suppressor (TVS) Revenue Market Share by Application (2020-2025)

Table 14. Global Transient Voltage Suppressor (TVS) Sale Price by Application (2020-2025) & (USD/Unit)

Table 15. Global Transient Voltage Suppressor (TVS) Sales by Company (2020-2025) & (K Units)

Table 16. Global Transient Voltage Suppressor (TVS) Sales Market Share by Company (2020-2025)

Table 17. Global Transient Voltage Suppressor (TVS) Revenue by Company (2020-2025) & (\$ millions)

Table 18. Global Transient Voltage Suppressor (TVS) Revenue Market Share by Company (2020-2025)

Table 19. Global Transient Voltage Suppressor (TVS) Sale Price by Company

(2020-2025) & (USD/Unit)

Table 20. Key Manufacturers Transient Voltage Suppressor (TVS) Producing Area Distribution and Sales Area

Table 21. Players Transient Voltage Suppressor (TVS) Products Offered

Table 22. Transient Voltage Suppressor (TVS) Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

Table 23. New Products and Potential Entrants

Table 24. Market M&A Activity & Strategy

Table 25. Global Transient Voltage Suppressor (TVS) Sales by Geographic Region (2020-2025) & (K Units)

Table 26. Global Transient Voltage Suppressor (TVS) Sales Market Share Geographic Region (2020-2025)

Table 27. Global Transient Voltage Suppressor (TVS) Revenue by Geographic Region (2020-2025) & (\$ millions)

Table 28. Global Transient Voltage Suppressor (TVS) Revenue Market Share by Geographic Region (2020-2025)

Table 29. Global Transient Voltage Suppressor (TVS) Sales by Country/Region (2020-2025) & (K Units)

Table 30. Global Transient Voltage Suppressor (TVS) Sales Market Share by Country/Region (2020-2025)

Table 31. Global Transient Voltage Suppressor (TVS) Revenue by Country/Region (2020-2025) & (\$ millions)

Table 32. Global Transient Voltage Suppressor (TVS) Revenue Market Share by Country/Region (2020-2025)

Table 33. Americas Transient Voltage Suppressor (TVS) Sales by Country (2020-2025) & (K Units)

Table 34. Americas Transient Voltage Suppressor (TVS) Sales Market Share by Country (2020-2025)

Table 35. Americas Transient Voltage Suppressor (TVS) Revenue by Country (2020-2025) & (\$ millions)

Table 36. Americas Transient Voltage Suppressor (TVS) Sales by Type (2020-2025) & (K Units)

Table 37. Americas Transient Voltage Suppressor (TVS) Sales by Application (2020-2025) & (K Units)

Table 38. APAC Transient Voltage Suppressor (TVS) Sales by Region (2020-2025) & (K Units)

Table 39. APAC Transient Voltage Suppressor (TVS) Sales Market Share by Region (2020-2025)

Table 40. APAC Transient Voltage Suppressor (TVS) Revenue by Region (2020-2025)

& (\$ millions)

Table 41. APAC Transient Voltage Suppressor (TVS) Sales by Type (2020-2025) & (K Units)

Table 42. APAC Transient Voltage Suppressor (TVS) Sales by Application (2020-2025) & (K Units)

Table 43. Europe Transient Voltage Suppressor (TVS) Sales by Country (2020-2025) & (K Units)

Table 44. Europe Transient Voltage Suppressor (TVS) Revenue by Country (2020-2025) & (\$ millions)

Table 45. Europe Transient Voltage Suppressor (TVS) Sales by Type (2020-2025) & (K Units)

Table 46. Europe Transient Voltage Suppressor (TVS) Sales by Application (2020-2025) & (K Units)

Table 47. Middle East & Africa Transient Voltage Suppressor (TVS) Sales by Country (2020-2025) & (K Units)

Table 48. Middle East & Africa Transient Voltage Suppressor (TVS) Revenue Market Share by Country (2020-2025)

Table 49. Middle East & Africa Transient Voltage Suppressor (TVS) Sales by Type (2020-2025) & (K Units)

Table 50. Middle East & Africa Transient Voltage Suppressor (TVS) Sales by Application (2020-2025) & (K Units)

Table 51. Key Market Drivers & Growth Opportunities of Transient Voltage Suppressor (TVS)

Table 52. Key Market Challenges & Risks of Transient Voltage Suppressor (TVS)

Table 53. Key Industry Trends of Transient Voltage Suppressor (TVS)

Table 54. Transient Voltage Suppressor (TVS) Raw Material

Table 55. Key Suppliers of Raw Materials

Table 56. Transient Voltage Suppressor (TVS) Distributors List

Table 57. Transient Voltage Suppressor (TVS) Customer List

Table 58. Global Transient Voltage Suppressor (TVS) Sales Forecast by Region (2026-2031) & (K Units)

Table 59. Global Transient Voltage Suppressor (TVS) Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 60. Americas Transient Voltage Suppressor (TVS) Sales Forecast by Country (2026-2031) & (K Units)

Table 61. Americas Transient Voltage Suppressor (TVS) Annual Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 62. APAC Transient Voltage Suppressor (TVS) Sales Forecast by Region (2026-2031) & (K Units)

Table 63. APAC Transient Voltage Suppressor (TVS) Annual Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 64. Europe Transient Voltage Suppressor (TVS) Sales Forecast by Country (2026-2031) & (K Units)

Table 65. Europe Transient Voltage Suppressor (TVS) Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 66. Middle East & Africa Transient Voltage Suppressor (TVS) Sales Forecast by Country (2026-2031) & (K Units)

Table 67. Middle East & Africa Transient Voltage Suppressor (TVS) Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 68. Global Transient Voltage Suppressor (TVS) Sales Forecast by Type (2026-2031) & (K Units)

Table 69. Global Transient Voltage Suppressor (TVS) Revenue Forecast by Type (2026-2031) & (\$ millions)

Table 70. Global Transient Voltage Suppressor (TVS) Sales Forecast by Application (2026-2031) & (K Units)

Table 71. Global Transient Voltage Suppressor (TVS) Revenue Forecast by Application (2026-2031) & (\$ millions)

Table 72. Littelfuse Basic Information, Transient Voltage Suppressor (TVS) Manufacturing Base, Sales Area and Its Competitors

Table 73. Littelfuse Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

Table 74. Littelfuse Transient Voltage Suppressor (TVS) Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 75. Littelfuse Main Business

Table 76. Littelfuse Latest Developments

Table 77. Vishay Basic Information, Transient Voltage Suppressor (TVS) Manufacturing Base, Sales Area and Its Competitors

Table 78. Vishay Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

Table 79. Vishay Transient Voltage Suppressor (TVS) Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 80. Vishay Main Business

Table 81. Vishay Latest Developments

Table 82. STMicroelectronics Basic Information, Transient Voltage Suppressor (TVS) Manufacturing Base, Sales Area and Its Competitors

Table 83. STMicroelectronics Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

Table 84. STMicroelectronics Transient Voltage Suppressor (TVS) Sales (K Units),

Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 85. STMicroelectronics Main Business

Table 86. STMicroelectronics Latest Developments

Table 87. ON Semiconductor Basic Information, Transient Voltage Suppressor (TVS) Manufacturing Base, Sales Area and Its Competitors

Table 88. ON Semiconductor Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

Table 89. ON Semiconductor Transient Voltage Suppressor (TVS) Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 90. ON Semiconductor Main Business

Table 91. ON Semiconductor Latest Developments

Table 92. Bourns Basic Information, Transient Voltage Suppressor (TVS) Manufacturing Base, Sales Area and Its Competitors

Table 93. Bourns Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

Table 94. Bourns Transient Voltage Suppressor (TVS) Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 95. Bourns Main Business

Table 96. Bourns Latest Developments

Table 97. Infineon Basic Information, Transient Voltage Suppressor (TVS) Manufacturing Base, Sales Area and Its Competitors

Table 98. Infineon Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

Table 99. Infineon Transient Voltage Suppressor (TVS) Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 100. Infineon Main Business

Table 101. Infineon Latest Developments

Table 102. BrightKing Basic Information, Transient Voltage Suppressor (TVS) Manufacturing Base, Sales Area and Its Competitors

Table 103. BrightKing Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

Table 104. BrightKing Transient Voltage Suppressor (TVS) Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 105. BrightKing Main Business

Table 106. BrightKing Latest Developments

Table 107. Nexperia Basic Information, Transient Voltage Suppressor (TVS) Manufacturing Base, Sales Area and Its Competitors

Table 108. Nexperia Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

Table 109. Nexperia Transient Voltage Suppressor (TVS) Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 110. Nexperia Main Business

Table 111. Nexperia Latest Developments

Table 112. ANOVA Basic Information, Transient Voltage Suppressor (TVS) Manufacturing Base, Sales Area and Its Competitors

Table 113. ANOVA Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

Table 114. ANOVA Transient Voltage Suppressor (TVS) Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 115. ANOVA Main Business

Table 116. ANOVA Latest Developments

Table 117. Diodes Inc. Basic Information, Transient Voltage Suppressor (TVS) Manufacturing Base, Sales Area and Its Competitors

Table 118. Diodes Inc. Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

Table 119. Diodes Inc. Transient Voltage Suppressor (TVS) Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 120. Diodes Inc. Main Business

Table 121. Diodes Inc. Latest Developments

Table 122. Amazing Basic Information, Transient Voltage Suppressor (TVS) Manufacturing Base, Sales Area and Its Competitors

Table 123. Amazing Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

Table 124. Amazing Transient Voltage Suppressor (TVS) Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 125. Amazing Main Business

Table 126. Amazing Latest Developments

Table 127. ONCHIP Basic Information, Transient Voltage Suppressor (TVS) Manufacturing Base, Sales Area and Its Competitors

Table 128. ONCHIP Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

Table 129. ONCHIP Transient Voltage Suppressor (TVS) Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 130. ONCHIP Main Business

Table 131. ONCHIP Latest Developments

Table 132. SEMTECH Basic Information, Transient Voltage Suppressor (TVS) Manufacturing Base, Sales Area and Its Competitors

Table 133. SEMTECH Transient Voltage Suppressor (TVS) Product Portfolios and

## Specifications

Table 134. SEMTECH Transient Voltage Suppressor (TVS) Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 135. SEMTECH Main Business

Table 136. SEMTECH Latest Developments

Table 137. MDE Basic Information, Transient Voltage Suppressor (TVS) Manufacturing Base, Sales Area and Its Competitors

Table 138. MDE Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

Table 139. MDE Transient Voltage Suppressor (TVS) Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 140. MDE Main Business

Table 141. MDE Latest Developments

Table 142. TOSHIBA Basic Information, Transient Voltage Suppressor (TVS) Manufacturing Base, Sales Area and Its Competitors

Table 143. TOSHIBA Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

Table 144. TOSHIBA Transient Voltage Suppressor (TVS) Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 145. TOSHIBA Main Business

Table 146. TOSHIBA Latest Developments

Table 147. EIC Basic Information, Transient Voltage Suppressor (TVS) Manufacturing Base, Sales Area and Its Competitors

Table 148. EIC Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

Table 149. EIC Transient Voltage Suppressor (TVS) Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 150. EIC Main Business

Table 151. EIC Latest Developments

Table 152. PROTEK Basic Information, Transient Voltage Suppressor (TVS) Manufacturing Base, Sales Area and Its Competitors

Table 153. PROTEK Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

Table 154. PROTEK Transient Voltage Suppressor (TVS) Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 155. PROTEK Main Business

Table 156. PROTEK Latest Developments

Table 157. WAYON Basic Information, Transient Voltage Suppressor (TVS) Manufacturing Base, Sales Area and Its Competitors

Table 158. WAYON Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

Table 159. WAYON Transient Voltage Suppressor (TVS) Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 160. WAYON Main Business

Table 161. WAYON Latest Developments

Table 162. INPAQ Basic Information, Transient Voltage Suppressor (TVS) Manufacturing Base, Sales Area and Its Competitors

Table 163. INPAQ Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

Table 164. INPAQ Transient Voltage Suppressor (TVS) Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 165. INPAQ Main Business

Table 166. INPAQ Latest Developments

Table 167. SOCAT Basic Information, Transient Voltage Suppressor (TVS) Manufacturing Base, Sales Area and Its Competitors

Table 168. SOCAT Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

Table 169. SOCAT Transient Voltage Suppressor (TVS) Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 170. SOCAT Main Business

Table 171. SOCAT Latest Developments

Table 172. UN Semiconductor Basic Information, Transient Voltage Suppressor (TVS) Manufacturing Base, Sales Area and Its Competitors

Table 173. UN Semiconductor Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

Table 174. UN Semiconductor Transient Voltage Suppressor (TVS) Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 175. UN Semiconductor Main Business

Table 176. UN Semiconductor Latest Developments

Table 177. Microchip Technology Basic Information, Transient Voltage Suppressor (TVS) Manufacturing Base, Sales Area and Its Competitors

Table 178. Microchip Technology Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

Table 179. Microchip Technology Transient Voltage Suppressor (TVS) Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 180. Microchip Technology Main Business

Table 181. Microchip Technology Latest Developments

Table 182. Bencent Basic Information, Transient Voltage Suppressor (TVS)

Manufacturing Base, Sales Area and Its Competitors

Table 183. Bencent Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

Table 184. Bencent Transient Voltage Suppressor (TVS) Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 185. Bencent Main Business

Table 186. Bencent Latest Developments

Table 187. TOREX Basic Information, Transient Voltage Suppressor (TVS)

Manufacturing Base, Sales Area and Its Competitors

Table 188. TOREX Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

Table 189. TOREX Transient Voltage Suppressor (TVS) Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 190. TOREX Main Business

Table 191. TOREX Latest Developments

Table 192. OmniVision Basic Information, Transient Voltage Suppressor (TVS)

Manufacturing Base, Sales Area and Its Competitors

Table 193. OmniVision Transient Voltage Suppressor (TVS) Product Portfolios and Specifications

Table 194. OmniVision Transient Voltage Suppressor (TVS) Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 195. OmniVision Main Business

Table 196. OmniVision Latest Developments

## List Of Figures

### LIST OF FIGURES

- Figure 1. Picture of Transient Voltage Suppressor (TVS)
- Figure 2. Transient Voltage Suppressor (TVS) Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Transient Voltage Suppressor (TVS) Sales Growth Rate 2020-2031 (K Units)
- Figure 7. Global Transient Voltage Suppressor (TVS) Revenue Growth Rate 2020-2031 (\$ millions)
- Figure 8. Transient Voltage Suppressor (TVS) Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Figure 9. Transient Voltage Suppressor (TVS) Sales Market Share by Country/Region (2024)
- Figure 10. Transient Voltage Suppressor (TVS) Sales Market Share by Country/Region (2020, 2024 & 2031)
- Figure 11. Product Picture of Uni-polar TVS
- Figure 12. Product Picture of Bi-polar TVS
- Figure 13. Global Transient Voltage Suppressor (TVS) Sales Market Share by Type in 2025
- Figure 14. Global Transient Voltage Suppressor (TVS) Revenue Market Share by Type (2020-2025)
- Figure 15. Transient Voltage Suppressor (TVS) Consumed in Consumer Electronic
- Figure 16. Global Transient Voltage Suppressor (TVS) Market: Consumer Electronic (2020-2025) & (K Units)
- Figure 17. Transient Voltage Suppressor (TVS) Consumed in Automotive Electronics
- Figure 18. Global Transient Voltage Suppressor (TVS) Market: Automotive Electronics (2020-2025) & (K Units)
- Figure 19. Transient Voltage Suppressor (TVS) Consumed in Power Supplies
- Figure 20. Global Transient Voltage Suppressor (TVS) Market: Power Supplies (2020-2025) & (K Units)
- Figure 21. Transient Voltage Suppressor (TVS) Consumed in Industrial
- Figure 22. Global Transient Voltage Suppressor (TVS) Market: Industrial (2020-2025) & (K Units)
- Figure 23. Transient Voltage Suppressor (TVS) Consumed in Computer
- Figure 24. Global Transient Voltage Suppressor (TVS) Market: Computer (2020-2025)

& (K Units)

Figure 25. Transient Voltage Suppressor (TVS) Consumed in Telecommunications

Figure 26. Global Transient Voltage Suppressor (TVS) Market: Telecommunications (2020-2025) & (K Units)

Figure 27. Transient Voltage Suppressor (TVS) Consumed in Others

Figure 28. Global Transient Voltage Suppressor (TVS) Market: Others (2020-2025) & (K Units)

Figure 29. Global Transient Voltage Suppressor (TVS) Sale Market Share by Application (2024)

Figure 30. Global Transient Voltage Suppressor (TVS) Revenue Market Share by Application in 2025

Figure 31. Transient Voltage Suppressor (TVS) Sales by Company in 2025 (K Units)

Figure 32. Global Transient Voltage Suppressor (TVS) Sales Market Share by Company in 2025

Figure 33. Transient Voltage Suppressor (TVS) Revenue by Company in 2025 (\$ millions)

Figure 34. Global Transient Voltage Suppressor (TVS) Revenue Market Share by Company in 2025

Figure 35. Global Transient Voltage Suppressor (TVS) Sales Market Share by Geographic Region (2020-2025)

Figure 36. Global Transient Voltage Suppressor (TVS) Revenue Market Share by Geographic Region in 2025

Figure 37. Americas Transient Voltage Suppressor (TVS) Sales 2020-2025 (K Units)

Figure 38. Americas Transient Voltage Suppressor (TVS) Revenue 2020-2025 (\$ millions)

Figure 39. APAC Transient Voltage Suppressor (TVS) Sales 2020-2025 (K Units)

Figure 40. APAC Transient Voltage Suppressor (TVS) Revenue 2020-2025 (\$ millions)

Figure 41. Europe Transient Voltage Suppressor (TVS) Sales 2020-2025 (K Units)

Figure 42. Europe Transient Voltage Suppressor (TVS) Revenue 2020-2025 (\$ millions)

Figure 43. Middle East & Africa Transient Voltage Suppressor (TVS) Sales 2020-2025 (K Units)

Figure 44. Middle East & Africa Transient Voltage Suppressor (TVS) Revenue 2020-2025 (\$ millions)

Figure 45. Americas Transient Voltage Suppressor (TVS) Sales Market Share by Country in 2025

Figure 46. Americas Transient Voltage Suppressor (TVS) Revenue Market Share by Country (2020-2025)

Figure 47. Americas Transient Voltage Suppressor (TVS) Sales Market Share by Type (2020-2025)

Figure 48. Americas Transient Voltage Suppressor (TVS) Sales Market Share by Application (2020-2025)

Figure 49. United States Transient Voltage Suppressor (TVS) Revenue Growth 2020-2025 (\$ millions)

Figure 50. Canada Transient Voltage Suppressor (TVS) Revenue Growth 2020-2025 (\$ millions)

Figure 51. Mexico Transient Voltage Suppressor (TVS) Revenue Growth 2020-2025 (\$ millions)

Figure 52. Brazil Transient Voltage Suppressor (TVS) Revenue Growth 2020-2025 (\$ millions)

Figure 53. APAC Transient Voltage Suppressor (TVS) Sales Market Share by Region in 2025

Figure 54. APAC Transient Voltage Suppressor (TVS) Revenue Market Share by Region (2020-2025)

Figure 55. APAC Transient Voltage Suppressor (TVS) Sales Market Share by Type (2020-2025)

Figure 56. APAC Transient Voltage Suppressor (TVS) Sales Market Share by Application (2020-2025)

Figure 57. China Transient Voltage Suppressor (TVS) Revenue Growth 2020-2025 (\$ millions)

Figure 58. Japan Transient Voltage Suppressor (TVS) Revenue Growth 2020-2025 (\$ millions)

Figure 59. South Korea Transient Voltage Suppressor (TVS) Revenue Growth 2020-2025 (\$ millions)

Figure 60. Southeast Asia Transient Voltage Suppressor (TVS) Revenue Growth 2020-2025 (\$ millions)

Figure 61. India Transient Voltage Suppressor (TVS) Revenue Growth 2020-2025 (\$ millions)

Figure 62. Australia Transient Voltage Suppressor (TVS) Revenue Growth 2020-2025 (\$ millions)

Figure 63. China Taiwan Transient Voltage Suppressor (TVS) Revenue Growth 2020-2025 (\$ millions)

Figure 64. Europe Transient Voltage Suppressor (TVS) Sales Market Share by Country in 2025

Figure 65. Europe Transient Voltage Suppressor (TVS) Revenue Market Share by Country (2020-2025)

Figure 66. Europe Transient Voltage Suppressor (TVS) Sales Market Share by Type (2020-2025)

Figure 67. Europe Transient Voltage Suppressor (TVS) Sales Market Share by

Application (2020-2025)

Figure 68. Germany Transient Voltage Suppressor (TVS) Revenue Growth 2020-2025 (\$ millions)

Figure 69. France Transient Voltage Suppressor (TVS) Revenue Growth 2020-2025 (\$ millions)

Figure 70. UK Transient Voltage Suppressor (TVS) Revenue Growth 2020-2025 (\$ millions)

Figure 71. Italy Transient Voltage Suppressor (TVS) Revenue Growth 2020-2025 (\$ millions)

Figure 72. Russia Transient Voltage Suppressor (TVS) Revenue Growth 2020-2025 (\$ millions)

Figure 73. Middle East & Africa Transient Voltage Suppressor (TVS) Sales Market Share by Country (2020-2025)

Figure 74. Middle East & Africa Transient Voltage Suppressor (TVS) Sales Market Share by Type (2020-2025)

Figure 75. Middle East & Africa Transient Voltage Suppressor (TVS) Sales Market Share by Application (2020-2025)

Figure 76. Egypt Transient Voltage Suppressor (TVS) Revenue Growth 2020-2025 (\$ millions)

Figure 77. South Africa Transient Voltage Suppressor (TVS) Revenue Growth 2020-2025 (\$ millions)

Figure 78. Israel Transient Voltage Suppressor (TVS) Revenue Growth 2020-2025 (\$ millions)

Figure 79. Turkey Transient Voltage Suppressor (TVS) Revenue Growth 2020-2025 (\$ millions)

Figure 80. GCC Countries Transient Voltage Suppressor (TVS) Revenue Growth 2020-2025 (\$ millions)

Figure 81. Manufacturing Cost Structure Analysis of Transient Voltage Suppressor (TVS) in 2025

Figure 82. Manufacturing Process Analysis of Transient Voltage Suppressor (TVS)

Figure 83. Industry Chain Structure of Transient Voltage Suppressor (TVS)

Figure 84. Channels of Distribution

Figure 85. Global Transient Voltage Suppressor (TVS) Sales Market Forecast by Region (2026-2031)

Figure 86. Global Transient Voltage Suppressor (TVS) Revenue Market Share Forecast by Region (2026-2031)

Figure 87. Global Transient Voltage Suppressor (TVS) Sales Market Share Forecast by Type (2026-2031)

Figure 88. Global Transient Voltage Suppressor (TVS) Revenue Market Share Forecast

by Type (2026-2031)

Figure 89. Global Transient Voltage Suppressor (TVS) Sales Market Share Forecast by Application (2026-2031)

Figure 90. Global Transient Voltage Suppressor (TVS) Revenue Market Share Forecast by Application (2026-2031)

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