

# Global TVS and ESD Protection Diodes Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global TVS and ESD Protection Diodes market size will reach 2,462 Million USD in 2025 and is projected to reach 3,452.75 Million USD by 2032, with a CAGR of 4.95% (2025-2032). Notably, the China TVS and ESD Protection Diodes market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

TVS (Transient Voltage Suppression) and ESD (Electrostatic Discharge) protection diodes are electronic components designed to safeguard sensitive electronic circuits from voltage spikes and electrostatic discharges. TVS diodes are engineered to respond rapidly to transient voltage events, clamping the voltage to a safe level and preventing damage to connected components. They find applications in a variety of electronic systems, including power supplies, communication devices, and data lines, providing protection against voltage surges caused by lightning, switching, or other electrical disturbances. ESD protection diodes specifically target electrostatic discharge events, which can occur when an electrostatically charged object comes into contact with an electronic device, potentially causing damage. These diodes divert the electrostatic discharge safely to the ground, protecting sensitive semiconductors and integrated circuits from harm. Both TVS and ESD protection diodes are crucial in enhancing the reliability and longevity of electronic devices, particularly in industries where robust protection against voltage transients is essential.

The major global manufacturers of TVS and ESD Protection Diodes include Infineon, Nexperia, SEMTECH, Vishay, Littelfuse, BrightKing, Amazing, STMicroelectronics, ON Semiconductor, OmniVision, WAYON, Diodes Inc., Prisma, Bourns, LAN technology, ANOVA, MDE, TOSHIBA, UN Semiconductor, PROTEK, INPAQ, EIC, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of TVS and ESD Protection Diodes. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global TVS and ESD Protection Diodes market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the TVS and ESD Protection Diodes market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of TVS and ESD Protection Diodes industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

**Global Key Manufacturers of TVS and ESD Protection Diodes Include:**

Infineon

Nexperia

SEMTECH

Vishay

Littelfuse

BrightKing

Amazing

STMicroelectronics

ON Semiconductor

OmniVision

WAYON

Diodes Inc.

Prisemi

Bourns

LAN technology

ANOVA

MDE

TOSHIBA

UN Semiconductor

PROTEK

INPAQ

EIC

TVS and ESD Protection Diodes Product Segment Include:

ESD Protection Diodes

TVS Diodes

TVS and ESD Protection Diodes Product Application Include:

Automobile

Industrial

Power Supply

Military/Aerospace

Telecommunications

PC

Others

## **Chapter Scope**

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

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