

Global Power TVS Diodes Market Growth 2026-2032

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Abstracts

The global Power TVS Diodes market size is predicted to grow from US\$ 636 million in 2025 to US\$ 1142 million in 2032; it is expected to grow at a CAGR of 8.8% from 2026 to 2032.

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

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

LP Information, Inc. (LPI) ' newest research report, the 'Power TVS Diodes Industry Forecast' looks at past sales and reviews total world Power TVS Diodes sales in 2025,

providing a comprehensive analysis by region and market sector of projected Power TVS Diodes sales for 2026 through 2032. With Power TVS Diodes sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Power TVS Diodes industry.

This Insight Report provides a comprehensive analysis of the global Power TVS Diodes 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 Power TVS Diodes portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Power TVS Diodes market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Power TVS Diodes 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 Power TVS Diodes.

This report presents a comprehensive overview, market shares, and growth opportunities of Power TVS Diodes market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Uni-Directional

Bi-Directional

Segmentation by Power:

<400W

400-1500W

Others

Segmentation by Voltage:

?12V

12-58V

Others

Segmentation by Application:

Automotive

Industrial

Telecommunication

Consumer Electronic

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

Infineon

STMicroelectronics

ON Semiconductor

Diodes Incorporated

NXP

Toshiba

Texas Instruments

Vishay

Nexperia

Key Questions Addressed in this Report

What is the 10-year outlook for the global Power TVS Diodes market?

What factors are driving Power TVS Diodes market growth, globally and by region?

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

How do Power TVS Diodes market opportunities vary by end market size?

How does Power TVS Diodes break out by Type, by Application?

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