

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

<https://marketpublishers.com/r/G60621DDDE5DEN.html>

Date: June 2026

Pages: 96

Price: US\$ 4,480.00 (Single User License)

ID: G60621DDDE5DEN

Abstracts

The global SMD TVS Diodes market size is expected to reach \$ 3097 million by 2032, rising at a market growth of 7.7% CAGR during the forecast period (2026-2032).

SMD TVS Diodes are compact, surface-mount transient voltage suppression devices designed to protect sensitive electronic circuits from electrostatic discharge, voltage spikes, and other transient events. They provide advantages such as rapid response time, high surge energy absorption, small form factor, and compatibility with high-density electronic assemblies. The capacity utilization rate in 2025 was 85%, with an industry average gross margin of about 35%. In 2025, production totaled 5997 million units, with an average price of USD 0.3 per unit. Upstream, essential materials include high-purity monocrystalline silicon and epoxy molding compounds, with representative suppliers including Shin-Etsu Chemical, SUMCO, Dow, and Kingboard Holdings. The midstream involves wafer fabrication, device design, packaging, and quality assurance to ensure performance and reliability. Downstream demand is driven by consumer electronics and automotive applications, with representative customers including Apple, Samsung, Huawei, Toyota, Volkswagen, and BYD.

The demand for SMD TVS Diodes is increasingly shaped by the rapid proliferation of consumer electronics and the growing complexity of automotive electrical systems. Their role in safeguarding sensitive components from voltage transients, electrostatic discharge, and surge events is becoming more critical as devices operate at higher speeds and lower voltages. Automotive applications, including advanced driver-assistance systems and infotainment modules, drive precise performance and reliability requirements, while consumer electronics push miniaturization and high-density integration. This combination of performance demands and broad applicability ensures that manufacturers must continuously optimize production efficiency, material quality,

and device robustness to meet evolving industry standards.

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

This report is a detailed and comprehensive analysis of the world market for SMD TVS Diodes and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of SMD TVS Diodes that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global SMD TVS Diodes market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Littelfuse, Infineon, STMicroelectronics, ON Semiconductor, Diodes Incorporated, NXP, Toshiba, Texas Instruments, Vishay, Nexperia, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World SMD TVS Diodes market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global SMD TVS Diodes Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global SMD TVS Diodes Market, Segmentation by Type:

Unidirectional

Bidirectional

Global SMD TVS Diodes Market, Segmentation by Power:

?400W

400-1500W

Others

Global SMD TVS Diodes Market, Segmentation by Voltage:

?12V

12-58V

Others

Global SMD TVS Diodes Market, Segmentation by Application:

Consumer Electronics

Automotive

Others

Companies Profiled:

Littelfuse

Infineon

STMicroelectronics

ON Semiconductor

Diodes Incorporated

NXP

Toshiba

Texas Instruments

Vishay

Nexperia

Key Questions Answered:

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

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