

Global Surface-Mount TVS Diode Array Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Surface-Mount TVS Diode Array market size is expected to reach \$ 2351 million by 2032, rising at a market growth of 7.5% CAGR during the forecast period (2026-2032).

Surface-Mount TVS Diode Array is a compact semiconductor protection device integrating multiple transient voltage suppression diodes in a single surface-mount package, designed to safeguard sensitive electronic circuits against electrostatic discharge and transient overvoltage events. It offers advantages such as fast response speed, high surge capability, space-efficient design, and reliable multi-channel protection for high-density electronic systems. The capacity utilization rate in 2025 was 85%, and the industry's average gross margin was about 35%. In 2025, production totaled 6,915 million units, with an average price of USD 0.2 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, device integration, packaging design, and reliability testing processes that determine protection performance and durability. Downstream applications are concentrated in consumer electronics and automotive systems, with representative customers including Apple, Samsung, Huawei, Tesla, BYD, and Volkswagen.

Surface-Mount TVS Diode Array (SMD TVS Diode Array) is a transient voltage suppression diode array designed to protect electronic circuits from transient overvoltage or electrical surges, such as surge currents and electrostatic discharge (ESD). It consists of multiple TVS diodes connected in parallel, enabling rapid response to overvoltage events by absorbing and dissipating excess voltage, thus safeguarding sensitive components from damage.

This report studies the global Surface-Mount TVS Diode Array production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Surface-Mount TVS Diode Array total production and demand, 2021-2032, (Million Units)

Global Surface-Mount TVS Diode Array total production value, 2021-2032, (USD Million)

Global Surface-Mount TVS Diode Array production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Surface-Mount TVS Diode Array consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Surface-Mount TVS Diode Array domestic production, consumption, key domestic manufacturers and share

Global Surface-Mount TVS Diode Array production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Surface-Mount TVS Diode Array production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Surface-Mount TVS Diode Array production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Surface-Mount TVS Diode Array 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 Surface-Mount TVS Diode Array 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 Surface-Mount TVS Diode Array Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Surface-Mount TVS Diode Array Market, Segmentation by Type:

Unidirectional Discrete TvS

Bidirectional Discrete TvS

Global Surface-Mount TVS Diode Array Market, Segmentation by Power:

?400W

400-1500W

Others

Global Surface-Mount TVS Diode Array Market, Segmentation by Voltage:

?12V

12-58V

Others

Global Surface-Mount TVS Diode Array Market, Segmentation by Application:

Consumer Electronics

Automotive

Communication

Network Equipment

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 Surface-Mount TVS Diode Array market?
2. What is the demand of the global Surface-Mount TVS Diode Array market?
3. What is the year over year growth of the global Surface-Mount TVS Diode Array market?
4. What is the production and production value of the global Surface-Mount TVS Diode Array market?
5. Who are the key producers in the global Surface-Mount TVS Diode Array market?
6. What are the growth factors driving the market demand?

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