

Global Automotive TVS Diode Arrays Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automotive TVS Diode Arrays market size is expected to reach \$ 476 million by 2032, rising at a market growth of 7.9% CAGR during the forecast period (2026-2032).

Automotive TVS Diode Arrays are automotive-grade semiconductor protection devices integrating multiple transient voltage suppression diodes within a single package, specifically engineered to protect vehicle electronic systems from electrostatic discharge, load dump, and other transient overvoltage events. They offer advantages such as ultra-fast response, high surge absorption capability, robust reliability under harsh automotive environments, and compact multi-channel protection for high-density electronic architectures. The capacity utilization rate in 2025 was 85%, and the industry's average gross margin was about 39%. In 2025, production totaled 341 million units, with an average price of USD 0.8 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 design optimization, multi-channel integration, packaging engineering, and reliability validation processes that determine protection performance and automotive-grade durability. Downstream demand is driven by passenger and commercial vehicle manufacturers, with representative customers including Toyota, Volkswagen, Ford, General Motors, BYD, SAIC Motor, Geely Auto, and FAW Group.

Automotive TVS Diode Arrays are transient voltage suppression components specifically designed for automotive electronic systems to protect circuits and components from voltage spikes, such as electrostatic discharge (ESD) and surge currents. These arrays consist of multiple TVS diodes connected in parallel, allowing

them to quickly respond to overvoltage events by absorbing excess voltage and dissipating it as heat, thereby safeguarding the electronic system.

This report studies the global Automotive TVS Diode Arrays production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Automotive TVS Diode Arrays total production and demand, 2021-2032, (Million Units)

Global Automotive TVS Diode Arrays total production value, 2021-2032, (USD Million)

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

Global Automotive TVS Diode Arrays consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Automotive TVS Diode Arrays domestic production, consumption, key domestic manufacturers and share

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

Global Automotive TVS Diode Arrays production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Automotive TVS Diode Arrays production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Automotive TVS Diode Arrays 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 Automotive TVS Diode Arrays 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 Automotive TVS Diode Arrays Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive TVS Diode Arrays Market, Segmentation by Type:

Unidirectional Discrete TvS

Bidirectional Discrete TvS

Global Automotive TVS Diode Arrays Market, Segmentation by Power:

?400W

400-1500W

Others

Global Automotive TVS Diode Arrays Market, Segmentation by Voltage:

?12V

12-58V

Others

Global Automotive TVS Diode Arrays Market, Segmentation by Application:

Passenger Cars

Commercial Vehicles

Companies Profiled:

Littelfuse

Infineon

STMicroelectronics

ON Semiconductor

Diodes Incorporated

NXP

Toshiba

Texas Instruments

Vishay

Nexperia

Key Questions Answered:

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

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