

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

<https://marketpublishers.com/r/G9C0545829A9EN.html>

Date: July 2026

Pages: 191

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

ID: G9C0545829A9EN

Abstracts

The global Automotive Grade TVS Diodes market size is expected to reach \$ 2413 million by 2032, rising at a market growth of 13.7% CAGR during the forecast period (2026-2032).

Automotive Grade TVS Diodes are a type of dedicated transient voltage protection component developed for automotive electronic systems. They pass strict AEC-Q101 automotive certification and comply with relevant vehicle electronic standards. With ultra-fast response speed, they can effectively suppress transient overvoltage, electrostatic discharge and surge interference inside vehicles. These products can operate stably for a long time under extreme working conditions such as wide temperature range, strong vibration and high humidity, and are widely used to protect on-board ECUs, control circuits and various electronic modules.

The price of Automotive Grade TVS Diodes is affected by power, capacitance, package and certification standards. As of May 2026, mainstream bulk prices are as follows: standard automotive-grade TVS diodes range from \$0.18 to \$0.28 per unit; high-power automotive models are \$0.29 to \$0.50 per unit; low-capacitance products for automotive intelligent driving are \$0.40 to \$0.70 per unit. Products with complete AEC-Q101 certification have obvious price advantages in the market. Imported products are priced higher than domestic products of the same specification. The market demand keeps rising, and the overall price remains stable with a slight upward trend.

The industrial chain of Automotive Grade TVS Diodes consists of upstream raw materials and production equipment, midstream manufacturing, packaging and certification testing, and downstream automotive electronic application fields. The upstream mainly includes monocrystalline silicon wafers, metal lead frames and

precision production equipment. The midstream involves wafer processing, chip packaging, performance testing and strict automotive certification. The downstream is widely applied in vehicle ECU, body control system, ADAS, new energy vehicle power system and other on-board electronic modules. The whole industry chain has high requirements for product reliability, certification qualification and long-term stability.

Market Driving Factors

Rapid development of the automotive industry

Passenger vehicles, commercial vehicles and new energy vehicles maintain a steady growth trend worldwide. Vehicle intelligence, electrification and networking drive a sharp increase in on-board electronic components. Strict protection requirements for automotive circuits bring continuous incremental demand for Automotive Grade TVS Diodes.

Continuous upgrading of automotive electronic performance requirements

Major automakers and component suppliers pursue higher vehicle safety, electromagnetic compatibility and operational stability. Higher standards are put forward for the anti-surge and anti-static capability of electronic circuits, which promotes the large-scale application of high-reliability automotive TVS diodes and accelerates product iteration and technological progress.

Wide penetration of automotive electronic systems

Automotive Grade TVS Diodes are featured with fast response and strong anti-interference performance. They are standard protection parts for on-board ECU, body control, intelligent driving and vehicle-mounted communication systems. The continuous expansion of automotive electronic architecture further boosts market demand.

Complete certification system and solid industrial support

After years of development, the automotive electronics industry has formed a complete set of certification standards and supporting facilities. The upstream and downstream cooperation mechanism is mature, and the product verification channels are smooth. A sound industrial environment provides solid guarantees for the long-term development of the automotive TVS diode market.

Market Challenges

Strict certification standards and long qualification cycle

Automotive-grade products need to pass AEC-Q101 and a series of vehicle-level reliability tests. The certification process is complicated and the cycle is long, which raises the access threshold of the industry and slows down the market entry speed of new manufacturers.

Fluctuations in prices of core raw materials

Silicon materials and metal accessories are the main raw materials for producing Automotive Grade TVS Diodes, accounting for a high proportion of total costs. Affected by global market changes, raw material prices fluctuate frequently, bringing cost control risks and operational uncertainties to enterprises.

High technical barriers for high-end automotive products

TVS diodes used in new energy vehicles and intelligent driving systems have extremely strict requirements on temperature resistance, precision and stability. The research and development and mass production of high-end products rely on advanced equipment and long-term technical accumulation, making it difficult for new entrants to get involved in the high-end market.

Intense market competition and profit pressure

The mid and low-end product market has low technical barriers, leading to a large number of manufacturers competing in the track. Homogenized products are prevalent, and price competition is fierce, which continuously compresses the overall profit level of the industry. In addition, overseas leading brands occupy a major share of the high-end market, bringing greater competitive pressure to domestic enterprises.

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

This report is a detailed and comprehensive analysis of the world market for Automotive Grade 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 Automotive Grade TVS Diodes that

contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Automotive Grade 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 Infineon, Nexperia, SEMTECH, Vishay, Littelfuse, BrightKing, STMicroelectronics, ON Semiconductor, Amazing Semiconductor, WAYON, 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 Grade 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 Automotive Grade TVS Diodes Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Grade TVS Diodes Market, Segmentation by Type:

Uni-polar TVS

Bi-polar TVS

Global Automotive Grade TVS Diodes Market, Segmentation by Packaging:

SMD Package

High-power Package

Through-hole Package

Global Automotive Grade TVS Diodes Market, Segmentation by Peak Pulse Power:

Low Power TVS

Medium Power TVS

High Power TVS

Global Automotive Grade TVS Diodes Market, Segmentation by Application:

Passenger Car

Commercial Vehicle

Companies Profiled:

Infineon

Nexperia

SEMTECH

Vishay

Littelfuse

BrightKing

STMicroelectronics

ON Semiconductor

Amazing Semiconductor

WAYON

Diodes Inc.

Prisemi

Bourns

Eaton

MDE

TOSHIBA

UN Semiconductor

PROTEK

INPAQ

EIC

SOCAY

ASIM

Yangjie

Rohm

TI

Microchip

Key Questions Answered:

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

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