

Global Automotive Grade TVS Diodes Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Automotive Grade TVS Diodes market size was valued at USD 491.1 million in 2023 and is forecast to a readjusted size of USD 712.3 million by 2030 with a CAGR of 5.5% during review period.

Automotive Grade TVS (Transient Voltage Suppression) Diodes are specialized electronic components designed and manufactured to meet the stringent requirements and standards set for use in automotive applications. These diodes are specifically engineered to protect sensitive automotive electronics from voltage transients, surges, and other electrical disturbances commonly encountered in automotive systems.

Market Drivers: Increasing Electronic Content in Vehicles: Modern automobiles feature an increasing number of electronic systems and components, from advanced driver-assistance systems (ADAS) to infotainment systems. This surge in electronic content creates a higher demand for reliable and robust protection against voltage transients.

Stringent Automotive Standards and Regulations: The automotive industry follows stringent standards set by organizations like the Automotive Electronics Council (AEC) to ensure the reliability and safety of electronic components used in vehicles. Compliance with these standards drives the need for specialized components like automotive-grade TVS diodes.

Rising Demand for Electric Vehicles (EVs) and Hybrid Vehicles: The growing market for electric and hybrid vehicles demands durable electronic components capable of withstanding unique electrical conditions, including high-voltage systems, rapid

charging, and regenerative braking, thus bolstering the demand for reliable TVS diodes.

Emphasis on Vehicle Safety: As safety becomes a paramount concern in automotive design, protection against electrical disturbances to ensure proper functionality of safety-critical systems, such as airbags, braking systems, and steering control, becomes crucial, driving the demand for robust TVS diodes.

Market Restrictions:

Cost and Pricing Pressures: Manufacturing automotive-grade components involves adhering to strict quality standards, testing, and compliance, which can increase production costs. Balancing these costs while remaining competitive in pricing can be challenging.

Technological Complexity: Developing TVS diodes that can handle a wide range of voltage transients and operate across varying temperatures with high reliability requires significant technological advancements and R&D investments.

Supply Chain Challenges: Disruptions or shortages in the semiconductor supply chain, as seen in recent times, can impact the availability and pricing of components required for manufacturing TVS diodes, affecting production and delivery timelines.

Regulatory Compliance and Certification: Meeting the stringent requirements and certifications necessary for automotive-grade components adds complexity to the design and manufacturing processes, potentially increasing lead times and costs.

The Global Info Research report includes an overview of the development of the Automotive Grade TVS Diodes industry chain, the market status of Passenger Car (Unidirectional TVS Diodes, Bidirectional TVS Diodes), Commercial Vehicle (Unidirectional TVS Diodes, Bidirectional TVS Diodes), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Automotive Grade TVS Diodes.

Regionally, the report analyzes the Automotive Grade TVS Diodes markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Automotive Grade TVS Diodes market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Automotive Grade TVS Diodes market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Automotive Grade TVS Diodes industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (Million Units), revenue generated, and market share of different by Type (e.g., Unidirectional TVS Diodes, Bidirectional TVS Diodes).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Automotive Grade TVS Diodes market.

Regional Analysis: The report involves examining the Automotive Grade TVS Diodes market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Automotive Grade TVS Diodes market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Automotive Grade TVS Diodes:

Company Analysis: Report covers individual Automotive Grade TVS Diodes manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Automotive Grade TVS Diodes This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application

(Passenger Car, Commercial Vehicle).

Technology Analysis: Report covers specific technologies relevant to Automotive Grade TVS Diodes. It assesses the current state, advancements, and potential future developments in Automotive Grade TVS Diodes areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Automotive Grade TVS Diodes market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Automotive Grade TVS Diodes market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Unidirectional TVS Diodes

Bidirectional TVS Diodes

Market segment by Application

Passenger Car

Commercial Vehicle

Major players covered

Infineon

Nexperia

SEMTECH

Vishay

Littelfuse

BrightKing

STMicroelectronics

onsemi

OmniVision

WAYON

Diodes Inc.

Prisemi

Bourns

LAN technology

ANOVA

MDE

TOSHIBA

UN Semiconductor

PROTEK

INPAQ

EIC

Texas Instruments

Rohm

TDK

Analog Devices Inc.

KOA Speer

KYOCERA AVX

WeEn Semiconductors

Panasonic

Microchip

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Automotive Grade TVS Diodes product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive Grade TVS Diodes, with price, sales, revenue and global market share of Automotive Grade TVS Diodes from 2019 to 2024.

Chapter 3, the Automotive Grade TVS Diodes competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive Grade TVS Diodes breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Automotive Grade TVS Diodes market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Automotive Grade TVS Diodes.

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