

Global Automotive Diodes Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G4C74B06E59EEN.html>

Date: January 2026

Pages: 200

Price: US\$ 3,480.00 (Single User License)

ID: G4C74B06E59EEN

Abstracts

According to our (Global Info Research) latest study, the global Automotive Diodes market size was valued at US\$ 2609 million in 2025 and is forecast to a readjusted size of US\$ 3659 million by 2032 with a CAGR of 5.0% during review period.

A diode is a semiconductor device with a PN junction or a metal-semiconductor junction. It has two terminals called anode and cathode. It has the property of a switch that allows current to flow or not to flow depending on the direction of the voltage applied between the anode and cathode. This action is called rectification.

Automotive diodes are diodes that have passed automotive product certification and meet the automotive industry's automotive-level requirements in terms of reliability, stability, and product quality. Widely used in various parts of automobiles.

The main automotive diode products counted in this article are: Rectifier Diodes, Switching Diodes, General Purpose Diodes, FRD, Zener Diodes, TVS Diodes, Varactor Diodes, Schottky Diodes and RF Schottky Diodes.

Global key players of Automotive Diodes include Nexperia , Vishay and Rohm, etc. The top three players hold a share over 42%. Europe is the largest market, has a share about 27%. In terms of product type, Rectifier Diodes is the largest segment, occupied for a share of about 29%, and in terms of application, Powertrain Systems has a share about 27 percent.

This report is a detailed and comprehensive analysis for global Automotive Diodes market. Both quantitative and qualitative analyses are presented by manufacturers, by

region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Automotive Diodes market size and forecasts, in consumption value (\$ Million), sales quantity (M Piece), and average selling prices (USD/K Piece), 2021-2032

Global Automotive Diodes market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (M Piece), and average selling prices (USD/K Piece), 2021-2032

Global Automotive Diodes market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (M Piece), and average selling prices (USD/K Piece), 2021-2032

Global Automotive Diodes market shares of main players, shipments in revenue (\$ Million), sales quantity (M Piece), and ASP (USD/K Piece), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Automotive Diodes

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Automotive Diodes market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Nexperia, Vishay, Rohm, ON Semiconductor, ST Microelectronics, Sanken Electric, Infineon, PANJIT Group, Toshiba, Shindengen, etc.

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

Market Segmentation

Automotive Diodes market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

General Purpose Diodes

Rectifier Diodes

Switching Diodes

FRD

Zener Diodes

TVS

Varactor Diodes

Schottky Diodes (SBD)

Market segment by Application

Chassis & Safety Systems

Powertrain Systems

Body Systems

ADAS

Infotainment Systems

Network & Telematics Systems

Major players covered

Nexperia

Vishay

Rohm

ON Semiconductor

ST Microelectronics

Sanken Electric

Infineon

PANJIT Group

Toshiba

Shindengen

YAGEO

Skyworks

Semikron Danfoss

Yangzhou Yangjie Electronic Technology

Fuji Electric

Suzhou Good-Ark Electronics

Prisemi

Hitachi Power Semiconductor Device

WAYON

Microchip (Microsemi)

KEC Corporation

Taiwan Semiconductor

Diodes Incorporated

Littelfuse (IXYS)

China Resources Microelectronics Limited

Texas Instruments

MCC

OmniVision

Jilin Sino-Microelectronics

Unisonic Technologies (UTC)

Bourns

WeEn Semiconductors

Hangzhou Silan Microelectronics

Changzhou Galaxy Century Microelectronics

Jiangsu Jiejie Microelectronics

INPAQ

MACOM

Comchip Technology

Cree (Wolfspeed)

Anova Technologies

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 Diodes product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive Diodes, with price, sales quantity, revenue, and global market share of Automotive Diodes from 2021 to 2026.

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

Chapter 4, the Automotive Diodes breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026. and Automotive Diodes market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Diodes.

Chapter 14 and 15, to describe Automotive Diodes sales channel, distributors, customers, research findings and conclusion.

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