

Global Low Leakage Diodes Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Low Leakage Diodes market size was valued at US\$ 100 million in 2024 and is forecast to a readjusted size of USD 128 million by 2031 with a CAGR of 3.6% during review period.

When the diode is cut off in the reverse direction, it is not completely ideal cut off. When subjected to back pressure, some tiny current leaks from the cathode to the anode. This current is usually small, and the higher the back pressure, the greater the leakage current, and the higher the temperature, the greater the leakage current. Large leakage current will bring large losses, especially in high voltage applications. Low leakage diodes can effectively ensure low reverse leakage current.

The need for continuous power supply, growing emphasis on dynamic mobility, and rising awareness of its importance among individuals in developed countries have had a major impact on market revenue growth in recent years. Traditionally designed to protect delicate electrical equipment from damage caused by high voltage transients, transient voltage suppressors are now widely used in the automotive, computing and telecommunications industries. Their reaction time is much faster than their traditional diode-based counterparts. Increased sensitivity to electrical stress due to ever-smaller component sizes increases the demands placed on TVSs in critical end-use applications. Operating diodes at such low voltages is expected to accelerate the growth of the TVS diodes market. The demand for transient voltage suppressors (TVS) is expected to increase in major end-uses owing to the growing trend of component miniaturization, which increases electrical sensitivity, and is expected to remain one of the key growth drivers for the TVS market over the course of the study. Fast reaction time of diodes (less than 1 nanosecond from 0 volts to BV), growing trend of component

size reduction, technological breakthroughs, increasing demand for different end-use applications, and increasing sensitivity to electrical stress are the key market drivers for TVS diodes. Fast reaction times indicate that lead inductance and PCB traces are the culprits for the voltage overshoot. The wide adoption of cutting-edge technologies and rising R&D activities are expected to create many new possibilities, which will drive the expansion of the market. Fast reaction time of diodes and rapid global growth of the semiconductor industry are also expected to favorably influence the expansion of the market. As TVS diodes can be used at various operating voltages, the demand for diodes will increase significantly. Many advantages such as low incremental surge resistance and easy access to high current protection from 6KA to 10KA are also expected to boost the market expansion.

This report is a detailed and comprehensive analysis for global Low Leakage 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 Low Leakage Diodes market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Low Leakage Diodes market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Low Leakage Diodes market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Low Leakage Diodes market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

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 Low Leakage 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 Low Leakage 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 ABB, NTE Electronics, Infineon Technologies, Vishay, Poseico, Calogic, Semitech Electronics, Nexperia, Microsemi, Murata, etc.

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

Market Segmentation

Low Leakage Diodes market is split by Type and by Application. For the period 2020-2031, 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

Monolithic Low Leakage Diode

Monolithic Dual Channel Low Leakage Diode

Market segment by Application

Aerospace Industry

Automotive Industry

Medical

Others

Major players covered

ABB

NTE Electronics

Infineon Technologies

Vishay

Poseico

Calogic

Semitech Electronics

Nexperia

Microsemi

Murata

ST Microelectronics

Lattice

Micron Technologies

Hitachi

Panasonic

Sharp

Zetex

TEMIC Semiconductors

Texas Instruments

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

Chapter 2, to profile the top manufacturers of Low Leakage Diodes, with price, sales quantity, revenue, and global market share of Low Leakage Diodes from 2020 to 2025.

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

Chapter 4, the Low Leakage Diodes breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Low Leakage Diodes market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Low Leakage Diodes.

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

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