

# Global Through-Hole Diodes Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Through-Hole Diodes market size was valued at US\$ 127 million in 2025 and is forecast to a readjusted size of US\$ 174 million by 2032 with a CAGR of 2.4% during review period.

Through-hole diodes are electronic components widely used in applications assembled using through-hole technology (THT). The primary function of a through-hole diode is to allow current to flow in one direction and block reverse current, making it crucial in power supplies, rectification, signal processing, and other domains. While through-hole diodes are gradually being supplanted by other packaging types and more efficient surface-mount technology (SMT), they still maintain a strong market position, particularly in high-power and high-current applications where reliability and durability remain essential.

The growth of the through-hole diode market is driven by several key factors, with the most significant being the increasing demand from downstream industries for high-reliability and high-temperature-resistant components. With the rapid development of power electronics, industrial automation, automotive electronics, and consumer electronics, the demand for stable and efficient components continues to rise, further driving market growth. Technological innovations, especially in materials and manufacturing processes, have also contributed to improved performance and production efficiency of through-hole diodes. At the same time, tightening environmental policies and regulations, particularly in electronic waste recycling and resource reuse, are presenting new opportunities in the market. However, with the widespread adoption of SMT technology and the diversification of market demands, through-hole diodes face increased competition, particularly in cost control and production efficiency.

The supply chain for through-hole diodes spans from raw material procurement to the manufacturing of final products, with a broad range of players involved from upstream to downstream. In the upstream sector, continuous innovation in semiconductor materials and packaging technology has improved the performance and production efficiency of through-hole diodes. Leading raw material suppliers include global semiconductor giants such as Micron Technology and Infineon. In the downstream sector, through-hole diodes are widely used in industries like power electronics, industrial control, automotive electronics, and consumer electronics. Notable companies in these areas include Microchip Technology, Rohm, and STMicroelectronics. These companies have extensive market outreach globally, driving the widespread use and innovation of through-hole diodes. Additionally, distributors and agents across the globe play a key role in facilitating the widespread application of these components.

As application scenarios diversify, the demand for through-hole diodes is also displaying distinct trends. In the power electronics sector, especially in automotive electrical systems, battery management systems, and renewable energy rectification applications, the demand for through-hole diodes continues to grow. In industrial automation, as smart manufacturing and Industry 4.0 develop, the need for high-reliability components is also on the rise, driving the further growth of the through-hole diode market. Meanwhile, with the continuous upgrading of consumer electronic products, the demand for through-hole diodes in these devices has diversified, especially in high-power and high-current applications. At the same time, with the growing popularity of smart devices, there is an increasing demand for diodes with lower power consumption, which is another significant trend in future market segmentation.

Globally, North America and Europe still dominate the through-hole diode market, driven by strong demand from high-end manufacturing and technological innovation, particularly in industrial automation, power electronics, and automotive electronics. Simultaneously, the Asia-Pacific region, particularly China, has become one of the largest markets for through-hole diodes, driven by rapid growth in manufacturing and infrastructure development. The Chinese government's strong push for green energy and electric vehicles has further accelerated the application of through-hole diodes in these fields. Other regions, such as Latin America and the Middle East, are gradually emerging, but the overall market demand is growing more slowly due to relatively lower market scale and technological maturity in these areas.

In December 2021, Rohm announced a significant investment in the Chinese market to strengthen its position in the electric vehicle and smart manufacturing sectors, which is

expected to further drive demand for through-hole diodes. In June 2020, Infineon Technologies signed a strategic cooperation agreement with BYD to jointly develop power management solutions for electric vehicles, including high-power rectifiers using through-hole diodes. In March 2022, Taiwan Semiconductor Manufacturing Company (TSMC) announced a 30% increase in production investments over the next five years, with a focus on the automotive electronics sector, which will further boost the demand for through-hole diodes in high-power and high-current applications.

This report is a detailed and comprehensive analysis for global Through-Hole 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 Through-Hole Diodes market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Through-Hole Diodes market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Through-Hole Diodes market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Through-Hole Diodes market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 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 Through-Hole 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 Through-Hole 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 Diodes Incorporated, Vishay Intertechnology, Infineon Technologies AG, ROHM Co., Ltd., STMicroelectronics, onsemi, Nexperia, Toshiba, Littelfuse, Inc., Sanken Electric Co., Ltd., etc.

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

## **Market Segmentation**

Through-Hole 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

Rectifying Diodes

Switching Diodes

Market segment by Semiconductor Material

Silicon diodes

Silicon Carbide diodes

Germanium diodes

Market segment by Reverse Recovery Behavior

Standard recovery diodes

Fast recovery diodes

Ultrafast recovery diodes

Soft recovery diodes

#### Market segment by Application

Automotive

Consumer Electronics

Home Appliance

Industrial

Others

#### Major players covered

Diodes Incorporated

Vishay Intertechnology

Infineon Technologies AG

ROHM Co., Ltd.

STMicroelectronics

onsemi

Nexperia

Toshiba

Littelfuse, Inc.

Sanken Electric Co., Ltd.

Diotec Semiconductor AG

Micro Commercial Components ? MCC

Comchip Technology

Central Semiconductor Corp.

Alpha & Omega Semiconductor Ltd.

Sanan Integrated Circuit

Wolfspeed, Inc.

Mitsubishi Electric

Fuji Electric Co., Ltd.

Rectron Ltd.

PANJIT International Inc.

Taiwan Semiconductor Co., Ltd.

Unisonic Technologies Co., Ltd.

Good-Ark Electronics

Yangzhou Yangjie Electronic Co., Ltd.

Hangzhou Silan Microelectronics Co., Ltd.

WeEn Semiconductor Inc.

Jiejie Microelectronics

WAYON Electronics

DACO Semiconductor

CDIL ? Crystal Diode Inc.

Surge Components

Sirectifier Electronics Technology

Galaxy Microelectronics

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

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

Chapter 3, the Through-Hole Diodes competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape

contrast.

Chapter 4, the Through-Hole 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 Through-Hole 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 Through-Hole Diodes.

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

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