

Global Through-Hole Diodes Market Growth 2026-2032

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Abstracts

The global Through-Hole Diodes market size is predicted to grow from US\$ 120 million in 2025 to US\$ 167 million in 2032; it is expected to grow at a CAGR of 2.6% from 2026 to 2032.

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.

LP Information, Inc. (LPI) ' newest research report, the 'Through'Hole Diodes Industry Forecast' looks at past sales and reviews total world Through'Hole Diodes sales in 2025, providing a comprehensive analysis by region and market sector of projected Through'Hole Diodes sales for 2026 through 2032. With Through'Hole Diodes sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Through'Hole Diodes industry.

This Insight Report provides a comprehensive analysis of the global Through'Hole Diodes landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Through'Hole Diodes portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Through'Hole Diodes market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Through'Hole Diodes and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Through'Hole Diodes.

This report presents a comprehensive overview, market shares, and growth opportunities of Through'Hole Diodes market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Rectifying Diodes

Switching Diodes

Segmentation by Semiconductor Material:

Silicon diodes

Silicon Carbide diodes

Germanium diodes

Segmentation by Reverse Recovery Behavior:

Standard recovery diodes

Fast recovery diodes

Ultrafast recovery diodes

Soft recovery diodes

Segmentation by Application:

Automotive

Consumer Electronics

Home Appliance

Industrial

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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

Key Questions Addressed in this Report

What is the 10-year outlook for the global Through?Hole Diodes market?

What factors are driving Through?Hole Diodes market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Through?Hole Diodes market opportunities vary by end market size?

How does Through?Hole Diodes break out by Type, by Application?

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