

Global SMD Diodes Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global SMD Diodes market size is expected to reach \$ 28366 million by 2032, rising at a market growth of 6.8% CAGR during the forecast period (2026-2032).

SMD Diodes (Surface-Mount Device Diodes) are essential components in modern electronics, widely used in consumer electronics, communication devices, and automotive electronics. The key feature of these products is surface-mount technology (SMD), which allows them to be directly installed onto the surface of printed circuit boards (PCBs). These diodes offer advantages such as miniaturization and suitability for automated production, making them an indispensable part of electronic components. The main functions of SMD diodes include rectification, switching, and voltage regulation, making them applicable across various sectors, including mobile phones, televisions, home appliances, automotive electronics, and industrial control. As demand for smaller, more efficient, and cost-effective electronic products continues to rise, the SMD diode market is poised for continued growth.

Globally, the SMD diode market is driven by several factors. First, continuous innovations in raw materials and cost optimization are key to the industry's growth. With advancements in transistor technology, packaging, and manufacturing processes, the cost of SMD diodes has steadily decreased, while their performance has improved. Secondly, the surge in demand for high-performance electronic components from end-use sectors such as consumer electronics and new energy vehicles has directly fueled the expansion of the SMD diode market. Additionally, government policies promoting green energy and low-carbon technologies have also driven increased demand for electronic products like electric vehicles. However, uncertainties in the global supply chain, particularly issues such as technological barriers and chip shortages in the semiconductor industry, pose challenges to the SMD diode sector.

The downstream supply chain of SMD diodes covers all aspects, from raw material supply and product manufacturing to final applications. The upstream is primarily composed of semiconductor manufacturers and packaging companies, such as TSMC and Infineon, which supply high-quality semiconductor materials and chips. The downstream applications are more diversified, spanning consumer electronics, automotive electronics, and communication devices. Key downstream customers include companies like Apple, Samsung, and Tesla, which rely on high-performance SMD diodes to meet their product's technical requirements. Overall, the supply chain of SMD diodes is highly concentrated, with leading companies playing a dominant role in the industry. As global demand for electronic products continues to grow, the SMD diode supply chain is constantly optimized and expanded, evolving into a multi-layered, global industrial ecosystem.

With continuous technological advancements, the demand for SMD diodes across various application scenarios is showing different trends. In the consumer electronics sector, particularly in smartphones, tablets, and wearable devices, demand for SMD diodes continues to grow alongside product performance improvements and market expansion. The automotive electronics sector is also seeing strong growth, especially with the rise of electric vehicles and smart driving technologies, leading to a surge in demand for high-performance SMD diodes. Moreover, industries such as industrial control and medical equipment also generate stable demand for SMD diodes. Overall, consumer electronics and new energy vehicles are expected to be the fastest-growing sectors for SMD diodes, providing sustainable growth momentum for the industry. Global consumption trends for SMD diodes vary by region. In North America, particularly in the United States, the demand for consumer electronics and new energy vehicles is driving market growth. Europe is active in automotive electronics, industrial control, and green energy sectors, which fuels demand for SMD diodes. In China and the Asia-Pacific region, the market demand for SMD diodes has notably increased, driven by economic development and advancements in smart manufacturing. China is not only one of the largest markets for consumer electronics but is also becoming a global leader in the electric vehicle sector, which continues to drive demand for SMD diodes in the region. Overall, demand in major regions shows strong growth, with significant regional differences that offer rich opportunities for the global supply chain.

In terms of recent developments, in 2021, Infineon announced plans to expand its global production capacity for SMD diodes to meet the growing demand from the electric vehicle market. In 2022, TSMC and Microchip Technology collaborated to further optimize the production process of SMD diodes, reducing costs while improving

product performance. In 2023, the European Commission launched its Green Deal policy, which is expected to increase demand for eco-friendly electronic components and provide new growth opportunities for the SMD diode industry. These developments suggest that the SMD diode sector will continue to experience steady growth driven by multiple industries worldwide.

This report studies the global SMD Diodes production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for SMD Diodes and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of SMD Diodes that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global SMD Diodes total production and demand, 2021-2032, (K Units)

Global SMD Diodes total production value, 2021-2032, (USD Million)

Global SMD Diodes production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global SMD Diodes consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: SMD Diodes domestic production, consumption, key domestic manufacturers and share

Global SMD Diodes production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global SMD Diodes production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global SMD Diodes production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global SMD Diodes market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Diodes Incorporated, Infineon Technologies AG, Microchip Technology Inc., STMicroelectronics NV, ON Semiconductor (onsemi), Nexperia BV, Vishay Intertechnology, Inc., Rohm Co., Ltd., Taiwan Semiconductor Co., Ltd., Topdiode Manufacturing Company, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World SMD Diodes market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global SMD Diodes Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global SMD Diodes Market, Segmentation by Type:

Rectifying Diodes

Switching Diodes

Global SMD Diodes Market, Segmentation by Material Type:

Silicon Diodes

Gallium Arsenide Diodes

Silicon Carbide Diodes

Gallium Nitride Diodes

Global SMD Diodes Market, Segmentation by Manufacturing Process:

Discrete Die Attach

Wafer Level Fabrication

Flip?Chip Assembly

Surface Mount Assembly

Global SMD Diodes Market, Segmentation by Application:

Automotive

Consumer Electronics

Home Appliance

Industrial

Others

Companies Profiled:

Diodes Incorporated

Infineon Technologies AG

Microchip Technology Inc.

STMicroelectronics NV

ON Semiconductor (onsemi)

Nexperia BV

Vishay Intertechnology, Inc.

Rohm Co., Ltd.

Taiwan Semiconductor Co., Ltd.

Topdiode Manufacturing Company

Everlight Electronics Co., Ltd.

Semtech Corporation

Central Semiconductor Corp.

Littelfuse, Inc.

Mitsubishi Electric Corp.

Renesas Electronics Corp.

Texas Instruments Inc.

Semikron International GmbH

Hitachi Power Semiconductor Device Ltd.

Shindengen Electric Mfg. Co., Ltd.

Toshiba

Shanghai Jingdao Microelectronics

Shenzhen Chi?da Semiconductor (MDD)

Guangdong Youfeng Microelectronics Co., Ltd.

Jiangsu Goodwork Microelectronics

Key Questions Answered:

1. How big is the global SMD Diodes market?
2. What is the demand of the global SMD Diodes market?
3. What is the year over year growth of the global SMD Diodes market?
4. What is the production and production value of the global SMD Diodes market?
5. Who are the key producers in the global SMD Diodes market?
6. What are the growth factors driving the market demand?

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