

# Global Schottky Barrier Diodes (SBD) Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Schottky Barrier Diodes (SBD) market size was valued at USD 1050.1 million in 2023 and is forecast to a readjusted size of USD 1494.2 million by 2030 with a CAGR of 5.2% during review period.

Diodes are commonly used in a variety of circuits for rectification and protection. This report studies the Schottky Barrier Diodes (SBDs). A Schottky barrier diode (SBD) is a device in which a semiconductor and a metal such as molybdenum are bonded instead of a pn junction. In general, semiconductors in which metals are bonded to n-type layers have been commercialized. It is suitable for high-speed switching applications, because of small forward voltage and short reverse recovery time.

Vishay Intertechnology is one of the most important global key manufacturers of schottky barrier diodes (SBD), holds a share of over 10%, other key players include Fuji Electric, China Resources Microelectronics, Rohm, etc. Asia is the largest market, occupied for about 70 percent, followed by North America. In terms of materials, Si SBD is the largest segment, with a share of over 90%, and in terms of application, the automotive and transportation segment holds a share of over 30 percent.

The Global Info Research report includes an overview of the development of the Schottky Barrier Diodes (SBD) industry chain, the market status of Automotive and Transportation (Si SBD, SiC SBD), Energy and Power Grid (Si SBD, SiC SBD), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Schottky Barrier Diodes (SBD).

Regionally, the report analyzes the Schottky Barrier Diodes (SBD) markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Schottky Barrier Diodes (SBD) market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Schottky Barrier Diodes (SBD) market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Schottky Barrier Diodes (SBD) industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (Million Pieces), revenue generated, and market share of different by Type (e.g., Si SBD, SiC SBD).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Schottky Barrier Diodes (SBD) market.

**Regional Analysis:** The report involves examining the Schottky Barrier Diodes (SBD) market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Schottky Barrier Diodes (SBD) market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Schottky Barrier Diodes (SBD):

**Company Analysis:** Report covers individual Schottky Barrier Diodes (SBD) manufacturers, suppliers, and other relevant industry players. This analysis includes

studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Schottky Barrier Diodes (SBD). This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Automotive and Transportation, Energy and Power Grid).

**Technology Analysis:** Report covers specific technologies relevant to Schottky Barrier Diodes (SBD). It assesses the current state, advancements, and potential future developments in Schottky Barrier Diodes (SBD) areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Schottky Barrier Diodes (SBD) market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Schottky Barrier Diodes (SBD) market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

Si SBD

SiC SBD

Others (GaAs SBD, etc.)

### Market segment by Application

Automotive and Transportation

Energy and Power Grid

Consumer

Industrial Applications

Telecommunications

Avionics, Military and Medical

Others

#### Major players covered

Vishay Intertechnology

Rohm

ON Semiconductor

Infineon

Nexperia

ST Microelectronics

Diodes Incorporated

PANJIT Group

Toshiba

Fuji Electric

Kyocera AVX

Littelfuse (IXYS)

Microchip (Microsemi)

Sanken Electric

Texas Instruments

Bourns, Inc

Central Semiconductor Corp.

Shindengen

MACOM

KEC Corporation

Cree (Wolfspeed)

Unisonic Technologies (UTC)

JSC Mikron

Hangzhou Silan Microelectronics

Yangzhou Yangjie Electronic Technology

China Resources Microelectronics Limited

Jilin Sino-Microelectronics

Hangzhou Li-On Microelectronics Corporation

Jiangsu Jiejie Microelectronics

OmniVision Technologies

Suzhou Good-Ark Electronics

Changzhou Galaxy Century Microelectronics

Shandong Jingdao Microelectronics

Chongqing Pingwei Enterprise

Prisemi

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 Schottky Barrier Diodes (SBD) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Schottky Barrier Diodes (SBD), with price, sales, revenue and global market share of Schottky Barrier Diodes (SBD) from 2019 to 2024.

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

Chapter 4, the Schottky Barrier Diodes (SBD) breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Schottky Barrier Diodes (SBD) market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Schottky Barrier Diodes (SBD).

Chapter 14 and 15, to describe Schottky Barrier Diodes (SBD) sales channel, distributors, customers, research findings and conclusion.

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