

# Global Silicon Carbide Schottky Barrier Diodes Market Research Report 2026(Status and Outlook)

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## Abstracts

A silicon carbide (SiC) schottky diode is a semiconductor diode formed by the junction of a semiconductor with a metal. SiC Schottky barrier diodes have a much lower reverse leakage current than their Si counterparts and also a higher forward voltage. They significantly reduce losses and can therefore be used to increase system efficiency and reduce product size. Currently SiC schottky diodes are mainly used in Automotive & EV/HEV, EV Charging, Industrial Motor/Drive, PV, Energy Storage, Wind Power, UPS, Data Center & Server, etc. Automotive is the largest market, hold a share over 65%, mainly used in OBC, DC/DC Converter, etc. Global new energy vehicles continue to grow rapidly. In 2023, the total sales of new energy vehicles in the world reached 14.65 million, a simultaneous increase of 35.4%. Among them, China's new energy vehicle sales reached 9.495 million, accounting for 64.8% of global sales. The production and sales of new energy vehicles have ranked first in the world for eight consecutive years. In 2023, the sales of new energy vehicles in the United States and Europe were 2.94 million and 1.46 million respectively, with year-on-year growth rates of 18.3% and 48.0% respectively. Currently the SiC schottky diodes market is dominated by few manufacturers, STMicroelectronics, Infineon, Wolfspeed, Rohm, onsemi, San'an Optoelectronics, etc.

The global Silicon Carbide Schottky Barrier Diodes market size was estimated at USD 615.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 24.90% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Silicon Carbide Schottky Barrier Diodes market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges,

as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Silicon Carbide Schottky Barrier Diodes market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Silicon Carbide Schottky Barrier Diodes market.

### **Global Silicon Carbide Schottky Barrier Diodes Market: Market Segmentation Analysis**

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

### **Key Company**

STMicroelectronics

Infineon

Wolfspeed

Rohm

onsemi  
Microchip (Microsemi)  
Fuji Electric  
Navitas (GeneSiC)  
Toshiba  
Qorvo (UnitedSiC)  
San'an Optoelectronics  
Littelfuse (IXYS)  
CETC 55  
WeEn Semiconductors  
BASiC Semiconductor  
SemiQ  
Diodes Incorporated  
KEC Corporation  
PANJIT Group  
Nexperia  
Vishay Intertechnology  
Zhuzhou CRRC Times Electric  
China Resources Microelectronics Limited  
Yangzhou Yangjie Electronic Technology  
Changzhou Galaxy Century Microelectronics  
Cissoid  
SK powertech

### **Market Segmentation (by Type)**

650V SiC SBD  
1200V SiC SBD  
Others

### **Market Segmentation (by Application)**

Automotive & EV/HEV  
EV Charging  
Industrial Motor/Drive  
PV, Energy Storage, Wind Power  
UPS, Data Center & Server  
Rail Transport  
Others

## Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

## Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Silicon Carbide Schottky Barrier Diodes Market

Overview of the regional outlook of the Silicon Carbide Schottky Barrier Diodes Market:

## Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

## Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future

development potential, and so on. It offers a high-level view of the current state of the Silicon Carbide Schottky Barrier Diodes Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Silicon Carbide Schottky Barrier Diodes, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development

potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

### **Key Reasons to Buy this Report:**

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

### **Customization of the Report**

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## Contents

### **1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE**

- 1.1 Market Definition and Statistical Scope of Silicon Carbide Schottky Barrier Diodes
- 1.2 Key Market Segments
  - 1.2.1 Silicon Carbide Schottky Barrier Diodes Segment by Type
  - 1.2.2 Silicon Carbide Schottky Barrier Diodes Segment by Application
- 1.3 Methodology & Sources of Information
  - 1.3.1 Research Methodology
  - 1.3.2 Research Process
  - 1.3.3 Market Breakdown and Data Triangulation
  - 1.3.4 Base Year
  - 1.3.5 Report Assumptions & Caveats

### **2 SILICON CARBIDE SCHOTTKY BARRIER DIODES MARKET OVERVIEW**

- 2.1 Global Market Overview
  - 2.1.1 Global Silicon Carbide Schottky Barrier Diodes Market Size (M USD) Estimates and Forecasts (2020-2035)
  - 2.1.2 Global Silicon Carbide Schottky Barrier Diodes Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

### **3 SILICON CARBIDE SCHOTTKY BARRIER DIODES MARKET COMPETITIVE LANDSCAPE**

- 3.1 Company Assessment Quadrant
- 3.2 Global Silicon Carbide Schottky Barrier Diodes Product Life Cycle
- 3.3 Global Silicon Carbide Schottky Barrier Diodes Sales by Manufacturers (2020-2025)
- 3.4 Global Silicon Carbide Schottky Barrier Diodes Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Silicon Carbide Schottky Barrier Diodes Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Silicon Carbide Schottky Barrier Diodes Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Silicon Carbide Schottky Barrier Diodes Market Competitive Situation and Trends

- 3.8.1 Silicon Carbide Schottky Barrier Diodes Market Concentration Rate
- 3.8.2 Global 5 and 10 Largest Silicon Carbide Schottky Barrier Diodes Players Market Share by Revenue
- 3.8.3 Mergers & Acquisitions, Expansion

## **4 SILICON CARBIDE SCHOTTKY BARRIER DIODES INDUSTRY CHAIN ANALYSIS**

- 4.1 Silicon Carbide Schottky Barrier Diodes Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

## **5 THE DEVELOPMENT AND DYNAMICS OF SILICON CARBIDE SCHOTTKY BARRIER DIODES MARKET**

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
  - 5.4.1 New Product Developments
  - 5.4.2 Mergers & Acquisitions
  - 5.4.3 Expansions
  - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
  - 5.5.1 Industry Policies Analysis
  - 5.5.2 Economic Environment Analysis
  - 5.5.3 Social Environment Analysis
  - 5.5.4 Technological Environment Analysis
- 5.6 Global Silicon Carbide Schottky Barrier Diodes Market Porter's Five Forces Analysis
  - 5.6.1 Global Trade Frictions
  - 5.6.2 U.S. Tariff Policy ? April 2025
  - 5.6.3 Global Trade Frictions and Their Impacts to Silicon Carbide Schottky Barrier Diodes Market
- 5.7 ESG Ratings of Leading Companies

## **6 SILICON CARBIDE SCHOTTKY BARRIER DIODES MARKET SEGMENTATION BY TYPE**

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Silicon Carbide Schottky Barrier Diodes Sales Market Share by Type (2020-2025)

6.3 Global Silicon Carbide Schottky Barrier Diodes Market Size by Type (2020-2025)

6.4 Global Silicon Carbide Schottky Barrier Diodes Price by Type (2020-2025)

## **7 SILICON CARBIDE SCHOTTKY BARRIER DIODES MARKET SEGMENTATION BY APPLICATION**

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global Silicon Carbide Schottky Barrier Diodes Market Sales by Application (2020-2025)

7.3 Global Silicon Carbide Schottky Barrier Diodes Market Size (M USD) by Application (2020-2025)

7.4 Global Silicon Carbide Schottky Barrier Diodes Sales Growth Rate by Application (2020-2025)

## **8 SILICON CARBIDE SCHOTTKY BARRIER DIODES MARKET SALES BY REGION**

8.1 Global Silicon Carbide Schottky Barrier Diodes Sales by Region

8.1.1 Global Silicon Carbide Schottky Barrier Diodes Sales by Region

8.1.2 Global Silicon Carbide Schottky Barrier Diodes Sales Market Share by Region

8.2 Global Silicon Carbide Schottky Barrier Diodes Market Size by Region

8.2.1 Global Silicon Carbide Schottky Barrier Diodes Market Size by Region

8.2.2 Global Silicon Carbide Schottky Barrier Diodes Market Size by Region

8.3 North America

8.3.1 North America Silicon Carbide Schottky Barrier Diodes Sales by Country

8.3.2 North America Silicon Carbide Schottky Barrier Diodes Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Silicon Carbide Schottky Barrier Diodes Sales by Country

8.4.2 Europe Silicon Carbide Schottky Barrier Diodes Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

- 8.5.1 Asia Pacific Silicon Carbide Schottky Barrier Diodes Sales by Region
- 8.5.2 Asia Pacific Silicon Carbide Schottky Barrier Diodes Market Size by Region
- 8.5.3 China Market Overview
- 8.5.4 Japan Market Overview
- 8.5.5 South Korea Market Overview
- 8.5.6 India Market Overview
- 8.5.7 Southeast Asia Market Overview
- 8.6 South America
  - 8.6.1 South America Silicon Carbide Schottky Barrier Diodes Sales by Country
  - 8.6.2 South America Silicon Carbide Schottky Barrier Diodes Market Size by Country
  - 8.6.3 Brazil Market Overview
  - 8.6.4 Argentina Market Overview
  - 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
  - 8.7.1 Middle East and Africa Silicon Carbide Schottky Barrier Diodes Sales by Region
  - 8.7.2 Middle East and Africa Silicon Carbide Schottky Barrier Diodes Market Size by Region
  - 8.7.3 Saudi Arabia Market Overview
  - 8.7.4 UAE Market Overview
  - 8.7.5 Egypt Market Overview
  - 8.7.6 Nigeria Market Overview
  - 8.7.7 South Africa Market Overview

## **9 SILICON CARBIDE SCHOTTKY BARRIER DIODES MARKET PRODUCTION BY REGION**

- 9.1 Global Production of Silicon Carbide Schottky Barrier Diodes by Region(2020-2025)
- 9.2 Global Silicon Carbide Schottky Barrier Diodes Revenue Market Share by Region (2020-2025)
- 9.3 Global Silicon Carbide Schottky Barrier Diodes Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Silicon Carbide Schottky Barrier Diodes Production
  - 9.4.1 North America Silicon Carbide Schottky Barrier Diodes Production Growth Rate (2020-2025)
  - 9.4.2 North America Silicon Carbide Schottky Barrier Diodes Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Silicon Carbide Schottky Barrier Diodes Production
  - 9.5.1 Europe Silicon Carbide Schottky Barrier Diodes Production Growth Rate (2020-2025)

9.5.2 Europe Silicon Carbide Schottky Barrier Diodes Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Silicon Carbide Schottky Barrier Diodes Production (2020-2025)

9.6.1 Japan Silicon Carbide Schottky Barrier Diodes Production Growth Rate (2020-2025)

9.6.2 Japan Silicon Carbide Schottky Barrier Diodes Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Silicon Carbide Schottky Barrier Diodes Production (2020-2025)

9.7.1 China Silicon Carbide Schottky Barrier Diodes Production Growth Rate (2020-2025)

9.7.2 China Silicon Carbide Schottky Barrier Diodes Production, Revenue, Price and Gross Margin (2020-2025)

## **10 KEY COMPANIES PROFILE**

10.1 STMicroelectronics

10.1.1 STMicroelectronics Basic Information

10.1.2 STMicroelectronics Silicon Carbide Schottky Barrier Diodes Product Overview

10.1.3 STMicroelectronics Silicon Carbide Schottky Barrier Diodes Product Market Performance

10.1.4 STMicroelectronics Business Overview

10.1.5 STMicroelectronics SWOT Analysis

10.1.6 STMicroelectronics Recent Developments

10.2 Infineon

10.2.1 Infineon Basic Information

10.2.2 Infineon Silicon Carbide Schottky Barrier Diodes Product Overview

10.2.3 Infineon Silicon Carbide Schottky Barrier Diodes Product Market Performance

10.2.4 Infineon Business Overview

10.2.5 Infineon SWOT Analysis

10.2.6 Infineon Recent Developments

10.3 Wolfspeed

10.3.1 Wolfspeed Basic Information

10.3.2 Wolfspeed Silicon Carbide Schottky Barrier Diodes Product Overview

10.3.3 Wolfspeed Silicon Carbide Schottky Barrier Diodes Product Market Performance

10.3.4 Wolfspeed Business Overview

10.3.5 Wolfspeed SWOT Analysis

10.3.6 Wolfspeed Recent Developments

10.4 Rohm

- 10.4.1 Rohm Basic Information
- 10.4.2 Rohm Silicon Carbide Schottky Barrier Diodes Product Overview
- 10.4.3 Rohm Silicon Carbide Schottky Barrier Diodes Product Market Performance
- 10.4.4 Rohm Business Overview
- 10.4.5 Rohm Recent Developments
- 10.5 onsemi
  - 10.5.1 onsemi Basic Information
  - 10.5.2 onsemi Silicon Carbide Schottky Barrier Diodes Product Overview
  - 10.5.3 onsemi Silicon Carbide Schottky Barrier Diodes Product Market Performance
  - 10.5.4 onsemi Business Overview
  - 10.5.5 onsemi Recent Developments
- 10.6 Microchip (Microsemi)
  - 10.6.1 Microchip (Microsemi) Basic Information
  - 10.6.2 Microchip (Microsemi) Silicon Carbide Schottky Barrier Diodes Product Overview
  - 10.6.3 Microchip (Microsemi) Silicon Carbide Schottky Barrier Diodes Product Market Performance
  - 10.6.4 Microchip (Microsemi) Business Overview
  - 10.6.5 Microchip (Microsemi) Recent Developments
- 10.7 Fuji Electric
  - 10.7.1 Fuji Electric Basic Information
  - 10.7.2 Fuji Electric Silicon Carbide Schottky Barrier Diodes Product Overview
  - 10.7.3 Fuji Electric Silicon Carbide Schottky Barrier Diodes Product Market Performance
  - 10.7.4 Fuji Electric Business Overview
  - 10.7.5 Fuji Electric Recent Developments
- 10.8 Navitas (GeneSiC)
  - 10.8.1 Navitas (GeneSiC) Basic Information
  - 10.8.2 Navitas (GeneSiC) Silicon Carbide Schottky Barrier Diodes Product Overview
  - 10.8.3 Navitas (GeneSiC) Silicon Carbide Schottky Barrier Diodes Product Market Performance
  - 10.8.4 Navitas (GeneSiC) Business Overview
  - 10.8.5 Navitas (GeneSiC) Recent Developments
- 10.9 Toshiba
  - 10.9.1 Toshiba Basic Information
  - 10.9.2 Toshiba Silicon Carbide Schottky Barrier Diodes Product Overview
  - 10.9.3 Toshiba Silicon Carbide Schottky Barrier Diodes Product Market Performance
  - 10.9.4 Toshiba Business Overview
  - 10.9.5 Toshiba Recent Developments

## 10.10 Qorvo (UnitedSiC)

10.10.1 Qorvo (UnitedSiC) Basic Information

10.10.2 Qorvo (UnitedSiC) Silicon Carbide Schottky Barrier Diodes Product Overview

10.10.3 Qorvo (UnitedSiC) Silicon Carbide Schottky Barrier Diodes Product Market

Performance

10.10.4 Qorvo (UnitedSiC) Business Overview

10.10.5 Qorvo (UnitedSiC) Recent Developments

## 10.11 San'an Optoelectronics

10.11.1 San'an Optoelectronics Basic Information

10.11.2 San'an Optoelectronics Silicon Carbide Schottky Barrier Diodes Product

Overview

10.11.3 San'an Optoelectronics Silicon Carbide Schottky Barrier Diodes Product

Market Performance

10.11.4 San'an Optoelectronics Business Overview

10.11.5 San'an Optoelectronics Recent Developments

## 10.12 Littelfuse (IXYS)

10.12.1 Littelfuse (IXYS) Basic Information

10.12.2 Littelfuse (IXYS) Silicon Carbide Schottky Barrier Diodes Product Overview

10.12.3 Littelfuse (IXYS) Silicon Carbide Schottky Barrier Diodes Product Market

Performance

10.12.4 Littelfuse (IXYS) Business Overview

10.12.5 Littelfuse (IXYS) Recent Developments

## 10.13 CETC 55

10.13.1 CETC 55 Basic Information

10.13.2 CETC 55 Silicon Carbide Schottky Barrier Diodes Product Overview

10.13.3 CETC 55 Silicon Carbide Schottky Barrier Diodes Product Market

Performance

10.13.4 CETC 55 Business Overview

10.13.5 CETC 55 Recent Developments

## 10.14 WeEn Semiconductors

10.14.1 WeEn Semiconductors Basic Information

10.14.2 WeEn Semiconductors Silicon Carbide Schottky Barrier Diodes Product

Overview

10.14.3 WeEn Semiconductors Silicon Carbide Schottky Barrier Diodes Product

Market Performance

10.14.4 WeEn Semiconductors Business Overview

10.14.5 WeEn Semiconductors Recent Developments

## 10.15 BASiC Semiconductor

10.15.1 BASiC Semiconductor Basic Information

- 10.15.2 BASiC Semiconductor Silicon Carbide Schottky Barrier Diodes Product Overview
- 10.15.3 BASiC Semiconductor Silicon Carbide Schottky Barrier Diodes Product Market Performance
- 10.15.4 BASiC Semiconductor Business Overview
- 10.15.5 BASiC Semiconductor Recent Developments
- 10.16 SemiQ
  - 10.16.1 SemiQ Basic Information
  - 10.16.2 SemiQ Silicon Carbide Schottky Barrier Diodes Product Overview
  - 10.16.3 SemiQ Silicon Carbide Schottky Barrier Diodes Product Market Performance
  - 10.16.4 SemiQ Business Overview
  - 10.16.5 SemiQ Recent Developments
- 10.17 Diodes Incorporated
  - 10.17.1 Diodes Incorporated Basic Information
  - 10.17.2 Diodes Incorporated Silicon Carbide Schottky Barrier Diodes Product Overview
  - 10.17.3 Diodes Incorporated Silicon Carbide Schottky Barrier Diodes Product Market Performance
  - 10.17.4 Diodes Incorporated Business Overview
  - 10.17.5 Diodes Incorporated Recent Developments
- 10.18 KEC Corporation
  - 10.18.1 KEC Corporation Basic Information
  - 10.18.2 KEC Corporation Silicon Carbide Schottky Barrier Diodes Product Overview
  - 10.18.3 KEC Corporation Silicon Carbide Schottky Barrier Diodes Product Market Performance
  - 10.18.4 KEC Corporation Business Overview
  - 10.18.5 KEC Corporation Recent Developments
- 10.19 PANJIT Group
  - 10.19.1 PANJIT Group Basic Information
  - 10.19.2 PANJIT Group Silicon Carbide Schottky Barrier Diodes Product Overview
  - 10.19.3 PANJIT Group Silicon Carbide Schottky Barrier Diodes Product Market Performance
  - 10.19.4 PANJIT Group Business Overview
  - 10.19.5 PANJIT Group Recent Developments
- 10.20 Nexperia
  - 10.20.1 Nexperia Basic Information
  - 10.20.2 Nexperia Silicon Carbide Schottky Barrier Diodes Product Overview
  - 10.20.3 Nexperia Silicon Carbide Schottky Barrier Diodes Product Market Performance

- 10.20.4 Nexperia Business Overview
- 10.20.5 Nexperia Recent Developments
- 10.21 Vishay Intertechnology
  - 10.21.1 Vishay Intertechnology Basic Information
  - 10.21.2 Vishay Intertechnology Silicon Carbide Schottky Barrier Diodes Product Overview
  - 10.21.3 Vishay Intertechnology Silicon Carbide Schottky Barrier Diodes Product Market Performance
  - 10.21.4 Vishay Intertechnology Business Overview
  - 10.21.5 Vishay Intertechnology Recent Developments
- 10.22 Zhuzhou CRRC Times Electric
  - 10.22.1 Zhuzhou CRRC Times Electric Basic Information
  - 10.22.2 Zhuzhou CRRC Times Electric Silicon Carbide Schottky Barrier Diodes Product Overview
  - 10.22.3 Zhuzhou CRRC Times Electric Silicon Carbide Schottky Barrier Diodes Product Market Performance
  - 10.22.4 Zhuzhou CRRC Times Electric Business Overview
  - 10.22.5 Zhuzhou CRRC Times Electric Recent Developments
- 10.23 China Resources Microelectronics Limited
  - 10.23.1 China Resources Microelectronics Limited Basic Information
  - 10.23.2 China Resources Microelectronics Limited Silicon Carbide Schottky Barrier Diodes Product Overview
  - 10.23.3 China Resources Microelectronics Limited Silicon Carbide Schottky Barrier Diodes Product Market Performance
  - 10.23.4 China Resources Microelectronics Limited Business Overview
  - 10.23.5 China Resources Microelectronics Limited Recent Developments
- 10.24 Yangzhou Yangjie Electronic Technology
  - 10.24.1 Yangzhou Yangjie Electronic Technology Basic Information
  - 10.24.2 Yangzhou Yangjie Electronic Technology Silicon Carbide Schottky Barrier Diodes Product Overview
  - 10.24.3 Yangzhou Yangjie Electronic Technology Silicon Carbide Schottky Barrier Diodes Product Market Performance
  - 10.24.4 Yangzhou Yangjie Electronic Technology Business Overview
  - 10.24.5 Yangzhou Yangjie Electronic Technology Recent Developments
- 10.25 Changzhou Galaxy Century Microelectronics
  - 10.25.1 Changzhou Galaxy Century Microelectronics Basic Information
  - 10.25.2 Changzhou Galaxy Century Microelectronics Silicon Carbide Schottky Barrier Diodes Product Overview
  - 10.25.3 Changzhou Galaxy Century Microelectronics Silicon Carbide Schottky Barrier

## Diodes Product Market Performance

10.25.4 Changzhou Galaxy Century Microelectronics Business Overview

10.25.5 Changzhou Galaxy Century Microelectronics Recent Developments

## 10.26 Cissoid

10.26.1 Cissoid Basic Information

10.26.2 Cissoid Silicon Carbide Schottky Barrier Diodes Product Overview

10.26.3 Cissoid Silicon Carbide Schottky Barrier Diodes Product Market Performance

10.26.4 Cissoid Business Overview

10.26.5 Cissoid Recent Developments

## 10.27 SK powertech

10.27.1 SK powertech Basic Information

10.27.2 SK powertech Silicon Carbide Schottky Barrier Diodes Product Overview

10.27.3 SK powertech Silicon Carbide Schottky Barrier Diodes Product Market

## Performance

10.27.4 SK powertech Business Overview

10.27.5 SK powertech Recent Developments

## **11 SILICON CARBIDE SCHOTTKY BARRIER DIODES MARKET FORECAST BY REGION**

11.1 Global Silicon Carbide Schottky Barrier Diodes Market Size Forecast

11.2 Global Silicon Carbide Schottky Barrier Diodes Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Silicon Carbide Schottky Barrier Diodes Market Size Forecast by Country

11.2.3 Asia Pacific Silicon Carbide Schottky Barrier Diodes Market Size Forecast by Region

11.2.4 South America Silicon Carbide Schottky Barrier Diodes Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Silicon Carbide Schottky Barrier Diodes by Country

## **12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)**

12.1 Global Silicon Carbide Schottky Barrier Diodes Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Silicon Carbide Schottky Barrier Diodes by Type (2026-2035)

12.1.2 Global Silicon Carbide Schottky Barrier Diodes Market Size Forecast by Type

(2026-2035)

12.1.3 Global Forecasted Price of Silicon Carbide Schottky Barrier Diodes by Type

(2026-2035)

12.2 Global Silicon Carbide Schottky Barrier Diodes Market Forecast by Application

(2026-2035)

12.2.1 Global Silicon Carbide Schottky Barrier Diodes Sales (K Units) Forecast by Application

12.2.2 Global Silicon Carbide Schottky Barrier Diodes Market Size (M USD) Forecast by Application (2026-2035)

## **13 CONCLUSION AND KEY FINDINGS**

## List Of Tables

### LIST OF TABLES

- Table 1. Introduction of the Type
- Table 2. Introduction of the Application
- Table 3. Global Silicon Carbide Schottky Barrier Diodes Market Size by Type (M USD)
- Table 4. Global Silicon Carbide Schottky Barrier Diodes Market Size by Application
- Table 5. Silicon Carbide Schottky Barrier Diodes Market Size Comparison by Region (M USD)
- Table 6. Global Silicon Carbide Schottky Barrier Diodes Sales (K Units) by Manufacturers (2020-2025)
- Table 7. Global Silicon Carbide Schottky Barrier Diodes Sales Market Share by Manufacturers (2020-2025)
- Table 8. Global Silicon Carbide Schottky Barrier Diodes Revenue (M USD) by Manufacturers (2020-2025)
- Table 9. Global Silicon Carbide Schottky Barrier Diodes Revenue Share by Manufacturers (2020-2025)
- Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Silicon Carbide Schottky Barrier Diodes as of 2025)
- Table 11. Global Market Silicon Carbide Schottky Barrier Diodes Average Price (USD/Unit) of Key Manufacturers (2020-2025)
- Table 12. Manufacturers? Manufacturing Sites, Areas Served
- Table 13. Manufacturers? Product Type
- Table 14. Global Silicon Carbide Schottky Barrier Diodes Manufacturers Market Concentration Ratio (CR5 and HHI)
- Table 15. Mergers & Acquisitions, Expansion Plans
- Table 16. Market Overview of Key Raw Materials
- Table 17. Midstream Market Analysis
- Table 18. Downstream Customer Analysis
- Table 19. Key Development Trends
- Table 20. Driving Factors
- Table 21. Silicon Carbide Schottky Barrier Diodes Market Challenges
- Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026
- Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027
- Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026
- Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries
- Table 26. Global Silicon Carbide Schottky Barrier Diodes Sales by Type (K Units)

- Table 27. Global Silicon Carbide Schottky Barrier Diodes Market Size by Type (M USD)
- Table 28. Global Silicon Carbide Schottky Barrier Diodes Sales (K Units) by Type (2020-2025)
- Table 29. Global Silicon Carbide Schottky Barrier Diodes Sales Market Share by Type (2020-2025)
- Table 30. Global Silicon Carbide Schottky Barrier Diodes Market Size (M USD) by Type (2020-2025)
- Table 31. Global Silicon Carbide Schottky Barrier Diodes Market Share by Type (2020-2025)
- Table 32. Global Silicon Carbide Schottky Barrier Diodes Price (USD/Unit) by Type (2020-2025)
- Table 33. Global Silicon Carbide Schottky Barrier Diodes Sales (K Units) by Application
- Table 34. Global Silicon Carbide Schottky Barrier Diodes Market Size by Application
- Table 35. Global Silicon Carbide Schottky Barrier Diodes Sales by Application (2020-2025) & (K Units)
- Table 36. Global Silicon Carbide Schottky Barrier Diodes Sales Market Share by Application (2020-2025)
- Table 37. Global Silicon Carbide Schottky Barrier Diodes Market Size by Application (2020-2025) & (M USD)
- Table 38. Global Silicon Carbide Schottky Barrier Diodes Market Share by Application (2020-2025)
- Table 39. Global Silicon Carbide Schottky Barrier Diodes Sales Growth Rate by Application (2020-2025)
- Table 40. Global Silicon Carbide Schottky Barrier Diodes Sales by Region (2020-2025) & (K Units)
- Table 41. Global Silicon Carbide Schottky Barrier Diodes Sales Market Share by Region (2020-2025)
- Table 42. Global Silicon Carbide Schottky Barrier Diodes Market Size by Region (2020-2025) & (M USD)
- Table 43. Global Silicon Carbide Schottky Barrier Diodes Market Size by Region (2020-2025)
- Table 44. North America Silicon Carbide Schottky Barrier Diodes Sales by Country (2020-2025) & (K Units)
- Table 45. North America Silicon Carbide Schottky Barrier Diodes Market Size by Country (2020-2025) & (M USD)
- Table 46. Europe Silicon Carbide Schottky Barrier Diodes Sales by Country (2020-2025) & (K Units)
- Table 47. Europe Silicon Carbide Schottky Barrier Diodes Market Size by Country (2020-2025) & (M USD)

- Table 48. Asia Pacific Silicon Carbide Schottky Barrier Diodes Sales by Region (2020-2025) & (K Units)
- Table 49. Asia Pacific Silicon Carbide Schottky Barrier Diodes Market Size by Region (2020-2025) & (M USD)
- Table 50. South America Silicon Carbide Schottky Barrier Diodes Sales by Country (2020-2025) & (K Units)
- Table 51. South America Silicon Carbide Schottky Barrier Diodes Market Size by Country (2020-2025) & (M USD)
- Table 52. Middle East and Africa Silicon Carbide Schottky Barrier Diodes Sales by Region (2020-2025) & (K Units)
- Table 53. Middle East and Africa Silicon Carbide Schottky Barrier Diodes Market Size by Region (2020-2025) & (M USD)
- Table 54. Global Silicon Carbide Schottky Barrier Diodes Production (K Units) by Region(2020-2025)
- Table 55. Global Silicon Carbide Schottky Barrier Diodes Revenue (US\$ Million) by Region (2020-2025)
- Table 56. Global Silicon Carbide Schottky Barrier Diodes Revenue Market Share by Region (2020-2025)
- Table 57. Global Silicon Carbide Schottky Barrier Diodes Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 58. North America Silicon Carbide Schottky Barrier Diodes Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 59. Europe Silicon Carbide Schottky Barrier Diodes Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 60. Japan Silicon Carbide Schottky Barrier Diodes Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 61. China Silicon Carbide Schottky Barrier Diodes Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 62. STMicroelectronics Basic Information
- Table 63. STMicroelectronics Silicon Carbide Schottky Barrier Diodes Product Overview
- Table 64. STMicroelectronics Silicon Carbide Schottky Barrier Diodes Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 65. STMicroelectronics Business Overview
- Table 66. STMicroelectronics SWOT Analysis
- Table 67. STMicroelectronics Recent Developments
- Table 68. Infineon Basic Information
- Table 69. Infineon Silicon Carbide Schottky Barrier Diodes Product Overview
- Table 70. Infineon Silicon Carbide Schottky Barrier Diodes Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

- Table 71. Infineon Business Overview
- Table 72. Infineon SWOT Analysis
- Table 73. Infineon Recent Developments
- Table 74. Wolfspeed Basic Information
- Table 75. Wolfspeed Silicon Carbide Schottky Barrier Diodes Product Overview
- Table 76. Wolfspeed Silicon Carbide Schottky Barrier Diodes Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 77. Wolfspeed Business Overview
- Table 78. Wolfspeed SWOT Analysis
- Table 79. Wolfspeed Recent Developments
- Table 80. Rohm Basic Information
- Table 81. Rohm Silicon Carbide Schottky Barrier Diodes Product Overview
- Table 82. Rohm Silicon Carbide Schottky Barrier Diodes Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 83. Rohm Business Overview
- Table 84. Rohm Recent Developments
- Table 85. onsemi Basic Information
- Table 86. onsemi Silicon Carbide Schottky Barrier Diodes Product Overview
- Table 87. onsemi Silicon Carbide Schottky Barrier Diodes Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 88. onsemi Business Overview
- Table 89. onsemi Recent Developments
- Table 90. Microchip (Microsemi) Basic Information
- Table 91. Microchip (Microsemi) Silicon Carbide Schottky Barrier Diodes Product Overview
- Table 92. Microchip (Microsemi) Silicon Carbide Schottky Barrier Diodes Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 93. Microchip (Microsemi) Business Overview
- Table 94. Microchip (Microsemi) Recent Developments
- Table 95. Fuji Electric Basic Information
- Table 96. Fuji Electric Silicon Carbide Schottky Barrier Diodes Product Overview
- Table 97. Fuji Electric Silicon Carbide Schottky Barrier Diodes Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 98. Fuji Electric Business Overview
- Table 99. Fuji Electric Recent Developments
- Table 100. Navitas (GeneSiC) Basic Information
- Table 101. Navitas (GeneSiC) Silicon Carbide Schottky Barrier Diodes Product Overview
- Table 102. Navitas (GeneSiC) Silicon Carbide Schottky Barrier Diodes Sales (K Units),

Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 103. Navitas (GeneSiC) Business Overview

Table 104. Navitas (GeneSiC) Recent Developments

Table 105. Toshiba Basic Information

Table 106. Toshiba Silicon Carbide Schottky Barrier Diodes Product Overview

Table 107. Toshiba Silicon Carbide Schottky Barrier Diodes Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 108. Toshiba Business Overview

Table 109. Toshiba Recent Developments

Table 110. Qorvo (UnitedSiC) Basic Information

Table 111. Qorvo (UnitedSiC) Silicon Carbide Schottky Barrier Diodes Product Overview

Table 112. Qorvo (UnitedSiC) Silicon Carbide Schottky Barrier Diodes Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 113. Qorvo (UnitedSiC) Business Overview

Table 114. Qorvo (UnitedSiC) Recent Developments

Table 115. San'an Optoelectronics Basic Information

Table 116. San'an Optoelectronics Silicon Carbide Schottky Barrier Diodes Product Overview

Table 117. San'an Optoelectronics Silicon Carbide Schottky Barrier Diodes Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 118. San'an Optoelectronics Business Overview

Table 119. San'an Optoelectronics Recent Developments

Table 120. Littelfuse (IXYS) Basic Information

Table 121. Littelfuse (IXYS) Silicon Carbide Schottky Barrier Diodes Product Overview

Table 122. Littelfuse (IXYS) Silicon Carbide Schottky Barrier Diodes Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 123. Littelfuse (IXYS) Business Overview

Table 124. Littelfuse (IXYS) Recent Developments

Table 125. CETC 55 Basic Information

Table 126. CETC 55 Silicon Carbide Schottky Barrier Diodes Product Overview

Table 127. CETC 55 Silicon Carbide Schottky Barrier Diodes Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 128. CETC 55 Business Overview

Table 129. CETC 55 Recent Developments

Table 130. WeEn Semiconductors Basic Information

Table 131. WeEn Semiconductors Silicon Carbide Schottky Barrier Diodes Product Overview

Table 132. WeEn Semiconductors Silicon Carbide Schottky Barrier Diodes Sales (K

- Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 133. WeEn Semiconductors Business Overview
- Table 134. WeEn Semiconductors Recent Developments
- Table 135. BASiC Semiconductor Basic Information
- Table 136. BASiC Semiconductor Silicon Carbide Schottky Barrier Diodes Product Overview
- Table 137. BASiC Semiconductor Silicon Carbide Schottky Barrier Diodes Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 138. BASiC Semiconductor Business Overview
- Table 139. BASiC Semiconductor Recent Developments
- Table 140. SemiQ Basic Information
- Table 141. SemiQ Silicon Carbide Schottky Barrier Diodes Product Overview
- Table 142. SemiQ Silicon Carbide Schottky Barrier Diodes Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 143. SemiQ Business Overview
- Table 144. SemiQ Recent Developments
- Table 145. Diodes Incorporated Basic Information
- Table 146. Diodes Incorporated Silicon Carbide Schottky Barrier Diodes Product Overview
- Table 147. Diodes Incorporated Silicon Carbide Schottky Barrier Diodes Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 148. Diodes Incorporated Business Overview
- Table 149. Diodes Incorporated Recent Developments
- Table 150. KEC Corporation Basic Information
- Table 151. KEC Corporation Silicon Carbide Schottky Barrier Diodes Product Overview
- Table 152. KEC Corporation Silicon Carbide Schottky Barrier Diodes Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 153. KEC Corporation Business Overview
- Table 154. KEC Corporation Recent Developments
- Table 155. PANJIT Group Basic Information
- Table 156. PANJIT Group Silicon Carbide Schottky Barrier Diodes Product Overview
- Table 157. PANJIT Group Silicon Carbide Schottky Barrier Diodes Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 158. PANJIT Group Business Overview
- Table 159. PANJIT Group Recent Developments
- Table 160. Nexperia Basic Information
- Table 161. Nexperia Silicon Carbide Schottky Barrier Diodes Product Overview
- Table 162. Nexperia Silicon Carbide Schottky Barrier Diodes Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 163. Nexperia Business Overview

Table 164. Nexperia Recent Developments

Table 165. Vishay Intertechnology Basic Information

Table 166. Vishay Intertechnology Silicon Carbide Schottky Barrier Diodes Product Overview

Table 167. Vishay Intertechnology Silicon Carbide Schottky Barrier Diodes Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 168. Vishay Intertechnology Business Overview

Table 169. Vishay Intertechnology Recent Developments

Table 170. Zhuzhou CRRC Times Electric Basic Information

Table 171. Zhuzhou CRRC Times Electric Silicon Carbide Schottky Barrier Diodes Product Overview

Table 172. Zhuzhou CRRC Times Electric Silicon Carbide Schottky Barrier Diodes Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 173. Zhuzhou CRRC Times Electric Business Overview

Table 174. Zhuzhou CRRC Times Electric Recent Developments

Table 175. China Resources Microelectronics Limited Basic Information

Table 176. China Resources Microelectronics Limited Silicon Carbide Schottky Barrier Diodes Product Overview

Table 177. China Resources Microelectronics Limited Silicon Carbide Schottky Barrier Diodes Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 178. China Resources Microelectronics Limited Business Overview

Table 179. China Resources Microelectronics Limited Recent Developments

Table 180. Yangzhou Yangjie Electronic Technology Basic Information

Table 181. Yangzhou Yangjie Electronic Technology Silicon Carbide Schottky Barrier Diodes Product Overview

Table 182. Yangzhou Yangjie Electronic Technology Silicon Carbide Schottky Barrier Diodes Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 183. Yangzhou Yangjie Electronic Technology Business Overview

Table 184. Yangzhou Yangjie Electronic Technology Recent Developments

Table 185. Changzhou Galaxy Century Microelectronics Basic Information

Table 186. Changzhou Galaxy Century Microelectronics Silicon Carbide Schottky Barrier Diodes Product Overview

Table 187. Changzhou Galaxy Century Microelectronics Silicon Carbide Schottky Barrier Diodes Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 188. Changzhou Galaxy Century Microelectronics Business Overview

- Table 189. Changzhou Galaxy Century Microelectronics Recent Developments
- Table 190. Cissoid Basic Information
- Table 191. Cissoid Silicon Carbide Schottky Barrier Diodes Product Overview
- Table 192. Cissoid Silicon Carbide Schottky Barrier Diodes Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 193. Cissoid Business Overview
- Table 194. Cissoid Recent Developments
- Table 195. SK powertech Basic Information
- Table 196. SK powertech Silicon Carbide Schottky Barrier Diodes Product Overview
- Table 197. SK powertech Silicon Carbide Schottky Barrier Diodes Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 198. SK powertech Business Overview
- Table 199. SK powertech Recent Developments
- Table 200. Global Silicon Carbide Schottky Barrier Diodes Sales Forecast by Region (2026-2035) & (K Units)
- Table 201. Global Silicon Carbide Schottky Barrier Diodes Market Size Forecast by Region (2026-2035) & (M USD)
- Table 202. North America Silicon Carbide Schottky Barrier Diodes Sales Forecast by Country (2026-2035) & (K Units)
- Table 203. North America Silicon Carbide Schottky Barrier Diodes Market Size Forecast by Country (2026-2035) & (M USD)
- Table 204. Europe Silicon Carbide Schottky Barrier Diodes Sales Forecast by Country (2026-2035) & (K Units)
- Table 205. Europe Silicon Carbide Schottky Barrier Diodes Market Size Forecast by Country (2026-2035) & (M USD)
- Table 206. Asia Pacific Silicon Carbide Schottky Barrier Diodes Sales Forecast by Region (2026-2035) & (K Units)
- Table 207. Asia Pacific Silicon Carbide Schottky Barrier Diodes Market Size Forecast by Region (2026-2035) & (M USD)
- Table 208. South America Silicon Carbide Schottky Barrier Diodes Sales Forecast by Country (2026-2035) & (K Units)
- Table 209. South America Silicon Carbide Schottky Barrier Diodes Market Size Forecast by Country (2026-2035) & (M USD)
- Table 210. Middle East and Africa Silicon Carbide Schottky Barrier Diodes Sales Forecast by Country (2026-2035) & (Units)
- Table 211. Middle East and Africa Silicon Carbide Schottky Barrier Diodes Market Size Forecast by Country (2026-2035) & (M USD)
- Table 212. Global Silicon Carbide Schottky Barrier Diodes Sales Forecast by Type (2026-2035) & (K Units)

Table 213. Global Silicon Carbide Schottky Barrier Diodes Market Size Forecast by Type (2026-2035) & (M USD)

Table 214. Global Silicon Carbide Schottky Barrier Diodes Price Forecast by Type (2026-2035) & (USD/Unit)

Table 215. Global Silicon Carbide Schottky Barrier Diodes Sales (K Units) Forecast by Application (2026-2035)

Table 216. Global Silicon Carbide Schottky Barrier Diodes Market Size Forecast by Application (2026-2035) & (M USD)

## List Of Figures

### LIST OF FIGURES

- Figure 1. Product Picture of Silicon Carbide Schottky Barrier Diodes
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Silicon Carbide Schottky Barrier Diodes Market Size (M USD), 2025-2035
- Figure 5. Global Silicon Carbide Schottky Barrier Diodes Market Size (M USD) (2020-2035)
- Figure 6. Global Silicon Carbide Schottky Barrier Diodes Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Silicon Carbide Schottky Barrier Diodes Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Silicon Carbide Schottky Barrier Diodes Product Life Cycle
- Figure 13. Silicon Carbide Schottky Barrier Diodes Sales Share by Manufacturers in 2025
- Figure 14. Global Silicon Carbide Schottky Barrier Diodes Revenue Share by Manufacturers in 2025
- Figure 15. Silicon Carbide Schottky Barrier Diodes Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Silicon Carbide Schottky Barrier Diodes Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Silicon Carbide Schottky Barrier Diodes Revenue in 2025
- Figure 18. Industry Chain Map of Silicon Carbide Schottky Barrier Diodes
- Figure 19. Global Silicon Carbide Schottky Barrier Diodes Market PEST Analysis
- Figure 20. Global Silicon Carbide Schottky Barrier Diodes Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Silicon Carbide Schottky Barrier Diodes Market Share by Type
- Figure 27. Sales Market Share of Silicon Carbide Schottky Barrier Diodes by Type

(2020-2025)

Figure 28. Sales Market Share of Silicon Carbide Schottky Barrier Diodes by Type in 2025

Figure 29. Market Share of Silicon Carbide Schottky Barrier Diodes by Type (2020-2025)

Figure 30. Market Share of Silicon Carbide Schottky Barrier Diodes by Type in 2025

Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 32. Global Silicon Carbide Schottky Barrier Diodes Market Share by Application

Figure 33. Global Silicon Carbide Schottky Barrier Diodes Sales Market Share by Application (2020-2025)

Figure 34. Global Silicon Carbide Schottky Barrier Diodes Sales Market Share by Application in 2025

Figure 35. Global Silicon Carbide Schottky Barrier Diodes Market Share by Application (2020-2025)

Figure 36. Global Silicon Carbide Schottky Barrier Diodes Market Share by Application in 2025

Figure 37. Global Silicon Carbide Schottky Barrier Diodes Sales Growth Rate by Application (2020-2025)

Figure 38. Global Silicon Carbide Schottky Barrier Diodes Sales Market Share by Region (2020-2025)

Figure 39. Global Silicon Carbide Schottky Barrier Diodes Market Size by Region (2020-2025)

Figure 40. North America Silicon Carbide Schottky Barrier Diodes Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Silicon Carbide Schottky Barrier Diodes Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Silicon Carbide Schottky Barrier Diodes Sales Market Share by Country in 2024

Figure 43. North America Silicon Carbide Schottky Barrier Diodes Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Silicon Carbide Schottky Barrier Diodes Market Size by Country in 2024

Figure 45. U.S. Silicon Carbide Schottky Barrier Diodes Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Silicon Carbide Schottky Barrier Diodes Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Silicon Carbide Schottky Barrier Diodes Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Silicon Carbide Schottky Barrier Diodes Market Size (M USD) and

Growth Rate (2020-2025)

Figure 49. Mexico Silicon Carbide Schottky Barrier Diodes Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Silicon Carbide Schottky Barrier Diodes Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Silicon Carbide Schottky Barrier Diodes Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Silicon Carbide Schottky Barrier Diodes Sales Market Share by Country in 2024

Figure 53. Europe Silicon Carbide Schottky Barrier Diodes Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Silicon Carbide Schottky Barrier Diodes Market Size by Country in 2024

Figure 55. Germany Silicon Carbide Schottky Barrier Diodes Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Silicon Carbide Schottky Barrier Diodes Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Silicon Carbide Schottky Barrier Diodes Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Silicon Carbide Schottky Barrier Diodes Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Silicon Carbide Schottky Barrier Diodes Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Silicon Carbide Schottky Barrier Diodes Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Silicon Carbide Schottky Barrier Diodes Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Silicon Carbide Schottky Barrier Diodes Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Silicon Carbide Schottky Barrier Diodes Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Silicon Carbide Schottky Barrier Diodes Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Silicon Carbide Schottky Barrier Diodes Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Silicon Carbide Schottky Barrier Diodes Sales Market Share by Region in 2024

Figure 67. Asia Pacific Silicon Carbide Schottky Barrier Diodes Market Size by Region in 2024

Figure 68. China Silicon Carbide Schottky Barrier Diodes Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Silicon Carbide Schottky Barrier Diodes Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Silicon Carbide Schottky Barrier Diodes Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Silicon Carbide Schottky Barrier Diodes Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Silicon Carbide Schottky Barrier Diodes Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Silicon Carbide Schottky Barrier Diodes Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Silicon Carbide Schottky Barrier Diodes Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Silicon Carbide Schottky Barrier Diodes Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Silicon Carbide Schottky Barrier Diodes Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Silicon Carbide Schottky Barrier Diodes Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Silicon Carbide Schottky Barrier Diodes Sales and Growth Rate (K Units)

Figure 79. South America Silicon Carbide Schottky Barrier Diodes Sales Market Share by Country in 2024

Figure 80. South America Silicon Carbide Schottky Barrier Diodes Market Size and Growth Rate (M USD)

Figure 81. South America Silicon Carbide Schottky Barrier Diodes Market Size by Country in 2024

Figure 82. Brazil Silicon Carbide Schottky Barrier Diodes Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Silicon Carbide Schottky Barrier Diodes Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Silicon Carbide Schottky Barrier Diodes Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Silicon Carbide Schottky Barrier Diodes Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Silicon Carbide Schottky Barrier Diodes Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Silicon Carbide Schottky Barrier Diodes Market Size and Growth

Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Silicon Carbide Schottky Barrier Diodes Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Silicon Carbide Schottky Barrier Diodes Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Silicon Carbide Schottky Barrier Diodes Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Silicon Carbide Schottky Barrier Diodes Market Size by Region in 2024

Figure 92. Saudi Arabia Silicon Carbide Schottky Barrier Diodes Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Silicon Carbide Schottky Barrier Diodes Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Silicon Carbide Schottky Barrier Diodes Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Silicon Carbide Schottky Barrier Diodes Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Silicon Carbide Schottky Barrier Diodes Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Silicon Carbide Schottky Barrier Diodes Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Silicon Carbide Schottky Barrier Diodes Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Silicon Carbide Schottky Barrier Diodes Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Silicon Carbide Schottky Barrier Diodes Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Silicon Carbide Schottky Barrier Diodes Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Silicon Carbide Schottky Barrier Diodes Production Market Share by Region (2020-2025)

Figure 103. North America Silicon Carbide Schottky Barrier Diodes Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Silicon Carbide Schottky Barrier Diodes Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Silicon Carbide Schottky Barrier Diodes Production (K Units) Growth Rate (2020-2025)

Figure 106. China Silicon Carbide Schottky Barrier Diodes Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Silicon Carbide Schottky Barrier Diodes Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Silicon Carbide Schottky Barrier Diodes Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Silicon Carbide Schottky Barrier Diodes Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Silicon Carbide Schottky Barrier Diodes Market Share Forecast by Type (2026-2035)

Figure 111. Global Silicon Carbide Schottky Barrier Diodes Sales Forecast by Application (2026-2035)

Figure 112. Global Silicon Carbide Schottky Barrier Diodes Market Share Forecast by Application (2026-2035)

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