

Global Glass Encapsulated Diodes Market Growth 2026-2032

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Abstracts

The global Glass Encapsulated Diodes market size is predicted to grow from US\$ 2358 million in 2025 to US\$ 3563 million in 2032; it is expected to grow at a CAGR of 6.1% from 2026 to 2032.

In 2025, global Glass Encapsulated Diode output reached about 120 billion units and global capacity of around 150 billion units. The average price is about USD 0.02 per unit, with gross margins near 29%. Glass Encapsulated Diodes are semiconductor diodes sealed within a hermetically protected glass package designed to provide high reliability, thermal stability, moisture resistance, and long operational life in harsh environments. These diodes are widely used for switching, rectification, voltage regulation, signal detection, surge protection, and high-frequency applications in automotive electronics, industrial equipment, telecommunications, aerospace, medical devices, and consumer electronics. The supply chain of Glass Encapsulated Diodes begins with upstream raw materials and semiconductor wafer production, including silicon wafers, glass tubes or glass beads, metal leads, bonding wires, and encapsulation materials supplied by specialty chemical and semiconductor material companies. Midstream manufacturing involves chip fabrication, diffusion processing, wafer dicing, die attachment, wire bonding, glass encapsulation sealing, electrical testing, and packaging conducted by diode manufacturers and semiconductor assembly providers. Different product types include switching diodes, Zener diodes, Schottky diodes, avalanche diodes, and signal diodes with axial or MELF-style glass packages. Downstream, these components are distributed through semiconductor distributors, electronic component suppliers, and OEM supply chains for integration into power supplies, automotive ECUs, industrial automation systems, communication devices, renewable energy equipment, and various electronic circuit boards requiring durable and high-reliability semiconductor protection and control components.

United States market for Glass Encapsulated Diodes is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Glass Encapsulated Diodes is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Glass Encapsulated Diodes is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Glass Encapsulated Diodes players cover Vishay Intertechnology, ON Semiconductor, Nexperia, Infineon Technologies, STMicroelectronics, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

This Insight Report provides a comprehensive analysis of the global Glass Encapsulated 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 Glass Encapsulated Diodes portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Glass Encapsulated Diodes market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Glass Encapsulated 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 Glass Encapsulated Diodes.

This report presents a comprehensive overview, market shares, and growth opportunities of Glass Encapsulated Diodes market by product type, application, key

manufacturers and key regions and countries.

Segmentation by Type:

5 A

Segmentation by Switching Speed:

Standard Recovery

Fast Recovery

Ultra-Fast Recovery

Segmentation by Application:

Automotive Electronics

Consumer Electronics

Industrial Electronics

Telecom Networks

Power & Energy Systems

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.

Vishay Intertechnology

ON Semiconductor

Nexperia

Infineon Technologies

STMicroelectronics

ROHM Semiconductor

Diodes Incorporated

Toshiba Corporation

Littelfuse

Fuji Electric

Shindengen Electric

Microchip Technology

TSMC

PANJIT

Yangjie Electronic

WeEn Semiconductors

Sanken Electric

Bourns

Key Questions Addressed in this Report

What is the 10-year outlook for the global Glass Encapsulated Diodes market?

What factors are driving Glass Encapsulated Diodes market growth, globally and by region?

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

How do Glass Encapsulated Diodes market opportunities vary by end market size?

How does Glass Encapsulated Diodes break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Glass Encapsulated Diodes Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Glass Encapsulated Diodes by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Glass Encapsulated Diodes by Country/Region, 2021, 2025 & 2032
- 2.2 Glass Encapsulated Diodes Segment by Type
 - 2.2.1 5 A
 - 2.2.5 Glass Encapsulated Diodes Sales by Type
 - 2.2.5.1 Global Glass Encapsulated Diodes Sales Market Share by Type (2021-2026)
 - 2.2.5.2 Global Glass Encapsulated Diodes Revenue and Market Share by Type (2021-2026)
 - 2.2.5.3 Global Glass Encapsulated Diodes Sale Price by Type (2021-2026)
- 2.3 Glass Encapsulated Diodes Segment by Switching Speed
 - 2.3.1 Standard Recovery
 - 2.3.2 Fast Recovery
 - 2.3.3 Ultra-Fast Recovery
 - 2.3.4 Glass Encapsulated Diodes Sales by Switching Speed
 - 2.3.4.1 Global Glass Encapsulated Diodes Sales Market Share by Switching Speed (2021-2026)
 - 2.3.4.2 Global Glass Encapsulated Diodes Revenue and Market Share by Switching Speed (2021-2026)
 - 2.3.4.3 Global Glass Encapsulated Diodes Sale Price by Switching Speed (2021-2026)

2.4 Glass Encapsulated Diodes Segment by Application

2.4.1 Automotive Electronics

2.4.2 Consumer Electronics

2.4.3 Industrial Electronics

2.4.4 Telecom Networks

2.4.5 Power & Energy Systems

2.4.6 Others

2.4.7 Glass Encapsulated Diodes Sales by Application

2.4.7.1 Global Glass Encapsulated Diodes Sale Market Share by Application
(2021-2026)

2.4.7.2 Global Glass Encapsulated Diodes Revenue and Market Share by Application
(2021-2026)

2.4.7.3 Global Glass Encapsulated Diodes Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Glass Encapsulated Diodes Breakdown Data by Company

3.1.1 Global Glass Encapsulated Diodes Annual Sales by Company (2021-2026)

3.1.2 Global Glass Encapsulated Diodes Sales Market Share by Company
(2021-2026)

3.2 Global Glass Encapsulated Diodes Annual Revenue by Company (2021-2026)

3.2.1 Global Glass Encapsulated Diodes Revenue by Company (2021-2026)

3.2.2 Global Glass Encapsulated Diodes Revenue Market Share by Company
(2021-2026)

3.3 Global Glass Encapsulated Diodes Sale Price by Company

3.4 Key Manufacturers Glass Encapsulated Diodes Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Glass Encapsulated Diodes Product Location Distribution

3.4.2 Players Glass Encapsulated Diodes Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR GLASS ENCAPSULATED DIODES BY GEOGRAPHIC REGION

4.1 World Historic Glass Encapsulated Diodes Market Size by Geographic Region

(2021-2026)

4.1.1 Global Glass Encapsulated Diodes Annual Sales by Geographic Region

(2021-2026)

4.1.2 Global Glass Encapsulated Diodes Annual Revenue by Geographic Region

(2021-2026)

4.2 World Historic Glass Encapsulated Diodes Market Size by Country/Region

(2021-2026)

4.2.1 Global Glass Encapsulated Diodes Annual Sales by Country/Region (2021-2026)

4.2.2 Global Glass Encapsulated Diodes Annual Revenue by Country/Region

(2021-2026)

4.3 Americas Glass Encapsulated Diodes Sales Growth

4.4 APAC Glass Encapsulated Diodes Sales Growth

4.5 Europe Glass Encapsulated Diodes Sales Growth

4.6 Middle East & Africa Glass Encapsulated Diodes Sales Growth

5 AMERICAS

5.1 Americas Glass Encapsulated Diodes Sales by Country

5.1.1 Americas Glass Encapsulated Diodes Sales by Country (2021-2026)

5.1.2 Americas Glass Encapsulated Diodes Revenue by Country (2021-2026)

5.2 Americas Glass Encapsulated Diodes Sales by Type (2021-2026)

5.3 Americas Glass Encapsulated Diodes Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Glass Encapsulated Diodes Sales by Region

6.1.1 APAC Glass Encapsulated Diodes Sales by Region (2021-2026)

6.1.2 APAC Glass Encapsulated Diodes Revenue by Region (2021-2026)

6.2 APAC Glass Encapsulated Diodes Sales by Type (2021-2026)

6.3 APAC Glass Encapsulated Diodes Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Glass Encapsulated Diodes by Country

7.1.1 Europe Glass Encapsulated Diodes Sales by Country (2021-2026)

7.1.2 Europe Glass Encapsulated Diodes Revenue by Country (2021-2026)

7.2 Europe Glass Encapsulated Diodes Sales by Type (2021-2026)

7.3 Europe Glass Encapsulated Diodes Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Glass Encapsulated Diodes by Country

8.1.1 Middle East & Africa Glass Encapsulated Diodes Sales by Country (2021-2026)

8.1.2 Middle East & Africa Glass Encapsulated Diodes Revenue by Country
(2021-2026)

8.2 Middle East & Africa Glass Encapsulated Diodes Sales by Type (2021-2026)

8.3 Middle East & Africa Glass Encapsulated Diodes Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Glass Encapsulated Diodes

10.3 Manufacturing Process Analysis of Glass Encapsulated Diodes

10.4 Industry Chain Structure of Glass Encapsulated Diodes

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Glass Encapsulated Diodes Distributors

11.3 Glass Encapsulated Diodes Customer

12 WORLD FORECAST REVIEW FOR GLASS ENCAPSULATED DIODES BY GEOGRAPHIC REGION

12.1 Global Glass Encapsulated Diodes Market Size Forecast by Region

12.1.1 Global Glass Encapsulated Diodes Forecast by Region (2027-2032)

12.1.2 Global Glass Encapsulated Diodes Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Glass Encapsulated Diodes Forecast by Type (2027-2032)

12.7 Global Glass Encapsulated Diodes Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Vishay Intertechnology

13.1.1 Vishay Intertechnology Company Information

13.1.2 Vishay Intertechnology Glass Encapsulated Diodes Product Portfolios and Specifications

13.1.3 Vishay Intertechnology Glass Encapsulated Diodes Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Vishay Intertechnology Main Business Overview

13.1.5 Vishay Intertechnology Latest Developments

13.2 ON Semiconductor

13.2.1 ON Semiconductor Company Information

13.2.2 ON Semiconductor Glass Encapsulated Diodes Product Portfolios and

Specifications

13.2.3 ON Semiconductor Glass Encapsulated Diodes Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 ON Semiconductor Main Business Overview

13.2.5 ON Semiconductor Latest Developments

13.3 Nexperia

13.3.1 Nexperia Company Information

13.3.2 Nexperia Glass Encapsulated Diodes Product Portfolios and Specifications

13.3.3 Nexperia Glass Encapsulated Diodes Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Nexperia Main Business Overview

13.3.5 Nexperia Latest Developments

13.4 Infineon Technologies

13.4.1 Infineon Technologies Company Information

13.4.2 Infineon Technologies Glass Encapsulated Diodes Product Portfolios and Specifications

13.4.3 Infineon Technologies Glass Encapsulated Diodes Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Infineon Technologies Main Business Overview

13.4.5 Infineon Technologies Latest Developments

13.5 STMicroelectronics

13.5.1 STMicroelectronics Company Information

13.5.2 STMicroelectronics Glass Encapsulated Diodes Product Portfolios and Specifications

13.5.3 STMicroelectronics Glass Encapsulated Diodes Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 STMicroelectronics Main Business Overview

13.5.5 STMicroelectronics Latest Developments

13.6 ROHM Semiconductor

13.6.1 ROHM Semiconductor Company Information

13.6.2 ROHM Semiconductor Glass Encapsulated Diodes Product Portfolios and Specifications

13.6.3 ROHM Semiconductor Glass Encapsulated Diodes Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 ROHM Semiconductor Main Business Overview

13.6.5 ROHM Semiconductor Latest Developments

13.7 Diodes Incorporated

13.7.1 Diodes Incorporated Company Information

13.7.2 Diodes Incorporated Glass Encapsulated Diodes Product Portfolios and

Specifications

13.7.3 Diodes Incorporated Glass Encapsulated Diodes Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Diodes Incorporated Main Business Overview

13.7.5 Diodes Incorporated Latest Developments

13.8 Toshiba Corporation

13.8.1 Toshiba Corporation Company Information

13.8.2 Toshiba Corporation Glass Encapsulated Diodes Product Portfolios and Specifications

13.8.3 Toshiba Corporation Glass Encapsulated Diodes Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Toshiba Corporation Main Business Overview

13.8.5 Toshiba Corporation Latest Developments

13.9 Littelfuse

13.9.1 Littelfuse Company Information

13.9.2 Littelfuse Glass Encapsulated Diodes Product Portfolios and Specifications

13.9.3 Littelfuse Glass Encapsulated Diodes Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Littelfuse Main Business Overview

13.9.5 Littelfuse Latest Developments

13.10 Fuji Electric

13.10.1 Fuji Electric Company Information

13.10.2 Fuji Electric Glass Encapsulated Diodes Product Portfolios and Specifications

13.10.3 Fuji Electric Glass Encapsulated Diodes Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Fuji Electric Main Business Overview

13.10.5 Fuji Electric Latest Developments

13.11 Shindengen Electric

13.11.1 Shindengen Electric Company Information

13.11.2 Shindengen Electric Glass Encapsulated Diodes Product Portfolios and Specifications

13.11.3 Shindengen Electric Glass Encapsulated Diodes Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Shindengen Electric Main Business Overview

13.11.5 Shindengen Electric Latest Developments

13.12 Microchip Technology

13.12.1 Microchip Technology Company Information

13.12.2 Microchip Technology Glass Encapsulated Diodes Product Portfolios and Specifications

13.12.3 Microchip Technology Glass Encapsulated Diodes Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Microchip Technology Main Business Overview

13.12.5 Microchip Technology Latest Developments

13.13 TSMC

13.13.1 TSMC Company Information

13.13.2 TSMC Glass Encapsulated Diodes Product Portfolios and Specifications

13.13.3 TSMC Glass Encapsulated Diodes Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 TSMC Main Business Overview

13.13.5 TSMC Latest Developments

13.14 PANJIT

13.14.1 PANJIT Company Information

13.14.2 PANJIT Glass Encapsulated Diodes Product Portfolios and Specifications

13.14.3 PANJIT Glass Encapsulated Diodes Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 PANJIT Main Business Overview

13.14.5 PANJIT Latest Developments

13.15 Yangjie Electronic

13.15.1 Yangjie Electronic Company Information

13.15.2 Yangjie Electronic Glass Encapsulated Diodes Product Portfolios and Specifications

13.15.3 Yangjie Electronic Glass Encapsulated Diodes Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 Yangjie Electronic Main Business Overview

13.15.5 Yangjie Electronic Latest Developments

13.16 WeEn Semiconductors

13.16.1 WeEn Semiconductors Company Information

13.16.2 WeEn Semiconductors Glass Encapsulated Diodes Product Portfolios and Specifications

13.16.3 WeEn Semiconductors Glass Encapsulated Diodes Sales, Revenue, Price and Gross Margin (2021-2026)

13.16.4 WeEn Semiconductors Main Business Overview

13.16.5 WeEn Semiconductors Latest Developments

13.17 Sanken Electric

13.17.1 Sanken Electric Company Information

13.17.2 Sanken Electric Glass Encapsulated Diodes Product Portfolios and Specifications

13.17.3 Sanken Electric Glass Encapsulated Diodes Sales, Revenue, Price and Gross

Margin (2021-2026)

13.17.4 Sanken Electric Main Business Overview

13.17.5 Sanken Electric Latest Developments

13.18 Bourns

13.18.1 Bourns Company Information

13.18.2 Bourns Glass Encapsulated Diodes Product Portfolios and Specifications

13.18.3 Bourns Glass Encapsulated Diodes Sales, Revenue, Price and Gross Margin

(2021-2026)

13.18.4 Bourns Main Business Overview

13.18.5 Bourns Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Glass Encapsulated Diodes Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Glass Encapsulated Diodes Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of 5 A

Table 7. Global Glass Encapsulated Diodes Sales by Type (2021-2026) & (Million Units)

Table 8. Global Glass Encapsulated Diodes Sales Market Share by Type (2021-2026)

Table 9. Global Glass Encapsulated Diodes Revenue by Type (2021-2026) & (\$ million)

Table 10. Global Glass Encapsulated Diodes Revenue Market Share by Type (2021-2026)

Table 11. Global Glass Encapsulated Diodes Sale Price by Type (2021-2026) & (US\$/Unit)

Table 12. Major Players of Standard Recovery

Table 13. Major Players of Fast Recovery

Table 14. Major Players of Ultra-Fast Recovery

Table 15. Global Glass Encapsulated Diodes Sales by Switching Speed (2021-2026) & (Million Units)

Table 16. Global Glass Encapsulated Diodes Sales Market Share by Switching Speed (2021-2026)

Table 17. Global Glass Encapsulated Diodes Revenue by Switching Speed (2021-2026) & (\$ million)

Table 18. Global Glass Encapsulated Diodes Revenue Market Share by Switching Speed (2021-2026)

Table 19. Global Glass Encapsulated Diodes Sale Price by Switching Speed (2021-2026) & (US\$/Unit)

Table 20. Global Glass Encapsulated Diodes Sale by Application (2021-2026) & (Million Units)

Table 21. Global Glass Encapsulated Diodes Sale Market Share by Application (2021-2026)

Table 22. Global Glass Encapsulated Diodes Revenue by Application (2021-2026) & (\$ million)

Table 23. Global Glass Encapsulated Diodes Revenue Market Share by Application (2021-2026)

Table 24. Global Glass Encapsulated Diodes Sale Price by Application (2021-2026) & (US\$/Unit)

Table 25. Global Glass Encapsulated Diodes Sales by Company (2021-2026) & (Million Units)

Table 26. Global Glass Encapsulated Diodes Sales Market Share by Company (2021-2026)

Table 27. Global Glass Encapsulated Diodes Revenue by Company (2021-2026) & (\$ millions)

Table 28. Global Glass Encapsulated Diodes Revenue Market Share by Company (2021-2026)

Table 29. Global Glass Encapsulated Diodes Sale Price by Company (2021-2026) & (US\$/Unit)

Table 30. Key Manufacturers Glass Encapsulated Diodes Producing Area Distribution and Sales Area

Table 31. Players Glass Encapsulated Diodes Products Offered

Table 32. Glass Encapsulated Diodes Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 33. New Products and Potential Entrants

Table 34. Market M&A Activity & Strategy

Table 35. Global Glass Encapsulated Diodes Sales by Geographic Region (2021-2026) & (Million Units)

Table 36. Global Glass Encapsulated Diodes Sales Market Share Geographic Region (2021-2026)

Table 37. Global Glass Encapsulated Diodes Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 38. Global Glass Encapsulated Diodes Revenue Market Share by Geographic Region (2021-2026)

Table 39. Global Glass Encapsulated Diodes Sales by Country/Region (2021-2026) & (Million Units)

Table 40. Global Glass Encapsulated Diodes Sales Market Share by Country/Region (2021-2026)

Table 41. Global Glass Encapsulated Diodes Revenue by Country/Region (2021-2026) & (\$ millions)

Table 42. Global Glass Encapsulated Diodes Revenue Market Share by Country/Region (2021-2026)

Table 43. Americas Glass Encapsulated Diodes Sales by Country (2021-2026) & (Million Units)

Table 44. Americas Glass Encapsulated Diodes Sales Market Share by Country (2021-2026)

Table 45. Americas Glass Encapsulated Diodes Revenue by Country (2021-2026) & (\$ millions)

Table 46. Americas Glass Encapsulated Diodes Sales by Type (2021-2026) & (Million Units)

Table 47. Americas Glass Encapsulated Diodes Sales by Application (2021-2026) & (Million Units)

Table 48. APAC Glass Encapsulated Diodes Sales by Region (2021-2026) & (Million Units)

Table 49. APAC Glass Encapsulated Diodes Sales Market Share by Region (2021-2026)

Table 50. APAC Glass Encapsulated Diodes Revenue by Region (2021-2026) & (\$ millions)

Table 51. APAC Glass Encapsulated Diodes Sales by Type (2021-2026) & (Million Units)

Table 52. APAC Glass Encapsulated Diodes Sales by Application (2021-2026) & (Million Units)

Table 53. Europe Glass Encapsulated Diodes Sales by Country (2021-2026) & (Million Units)

Table 54. Europe Glass Encapsulated Diodes Revenue by Country (2021-2026) & (\$ millions)

Table 55. Europe Glass Encapsulated Diodes Sales by Type (2021-2026) & (Million Units)

Table 56. Europe Glass Encapsulated Diodes Sales by Application (2021-2026) & (Million Units)

Table 57. Middle East & Africa Glass Encapsulated Diodes Sales by Country (2021-2026) & (Million Units)

Table 58. Middle East & Africa Glass Encapsulated Diodes Revenue Market Share by Country (2021-2026)

Table 59. Middle East & Africa Glass Encapsulated Diodes Sales by Type (2021-2026) & (Million Units)

Table 60. Middle East & Africa Glass Encapsulated Diodes Sales by Application (2021-2026) & (Million Units)

Table 61. Key Market Drivers & Growth Opportunities of Glass Encapsulated Diodes

Table 62. Key Market Challenges & Risks of Glass Encapsulated Diodes

Table 63. Key Industry Trends of Glass Encapsulated Diodes

Table 64. Glass Encapsulated Diodes Raw Material

Table 65. Key Suppliers of Raw Materials

Table 66. Glass Encapsulated Diodes Distributors List

Table 67. Glass Encapsulated Diodes Customer List

Table 68. Global Glass Encapsulated Diodes Sales Forecast by Region (2027-2032) & (Million Units)

Table 69. Global Glass Encapsulated Diodes Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 70. Americas Glass Encapsulated Diodes Sales Forecast by Country (2027-2032) & (Million Units)

Table 71. Americas Glass Encapsulated Diodes Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 72. APAC Glass Encapsulated Diodes Sales Forecast by Region (2027-2032) & (Million Units)

Table 73. APAC Glass Encapsulated Diodes Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 74. Europe Glass Encapsulated Diodes Sales Forecast by Country (2027-2032) & (Million Units)

Table 75. Europe Glass Encapsulated Diodes Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 76. Middle East & Africa Glass Encapsulated Diodes Sales Forecast by Country (2027-2032) & (Million Units)

Table 77. Middle East & Africa Glass Encapsulated Diodes Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 78. Global Glass Encapsulated Diodes Sales Forecast by Type (2027-2032) & (Million Units)

Table 79. Global Glass Encapsulated Diodes Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 80. Global Glass Encapsulated Diodes Sales Forecast by Application (2027-2032) & (Million Units)

Table 81. Global Glass Encapsulated Diodes Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 82. Vishay Intertechnology Basic Information, Glass Encapsulated Diodes Manufacturing Base, Sales Area and Its Competitors

Table 83. Vishay Intertechnology Glass Encapsulated Diodes Product Portfolios and Specifications

Table 84. Vishay Intertechnology Glass Encapsulated Diodes Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 85. Vishay Intertechnology Main Business

Table 86. Vishay Intertechnology Latest Developments

Table 87. ON Semiconductor Basic Information, Glass Encapsulated Diodes Manufacturing Base, Sales Area and Its Competitors

Table 88. ON Semiconductor Glass Encapsulated Diodes Product Portfolios and Specifications

Table 89. ON Semiconductor Glass Encapsulated Diodes Sales (Million Units),

Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 90. ON Semiconductor Main Business

Table 91. ON Semiconductor Latest Developments

Table 92. Nexperia Basic Information, Glass Encapsulated Diodes Manufacturing Base, Sales Area and Its Competitors

Table 93. Nexperia Glass Encapsulated Diodes Product Portfolios and Specifications

Table 94. Nexperia Glass Encapsulated Diodes Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 95. Nexperia Main Business

Table 96. Nexperia Latest Developments

Table 97. Infineon Technologies Basic Information, Glass Encapsulated Diodes Manufacturing Base, Sales Area and Its Competitors

Table 98. Infineon Technologies Glass Encapsulated Diodes Product Portfolios and Specifications

Table 99. Infineon Technologies Glass Encapsulated Diodes Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 100. Infineon Technologies Main Business

Table 101. Infineon Technologies Latest Developments

Table 102. STMicroelectronics Basic Information, Glass Encapsulated Diodes Manufacturing Base, Sales Area and Its Competitors

Table 103. STMicroelectronics Glass Encapsulated Diodes Product Portfolios and Specifications

Table 104. STMicroelectronics Glass Encapsulated Diodes Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 105. STMicroelectronics Main Business

Table 106. STMicroelectronics Latest Developments

Table 107. ROHM Semiconductor Basic Information, Glass Encapsulated Diodes Manufacturing Base, Sales Area and Its Competitors

Table 108. ROHM Semiconductor Glass Encapsulated Diodes Product Portfolios and Specifications

Table 109. ROHM Semiconductor Glass Encapsulated Diodes Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 110. ROHM Semiconductor Main Business

Table 111. ROHM Semiconductor Latest Developments

Table 112. Diodes Incorporated Basic Information, Glass Encapsulated Diodes Manufacturing Base, Sales Area and Its Competitors

Table 113. Diodes Incorporated Glass Encapsulated Diodes Product Portfolios and Specifications

Table 114. Diodes Incorporated Glass Encapsulated Diodes Sales (Million Units),

Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 115. Diodes Incorporated Main Business

Table 116. Diodes Incorporated Latest Developments

Table 117. Toshiba Corporation Basic Information, Glass Encapsulated Diodes Manufacturing Base, Sales Area and Its Competitors

Table 118. Toshiba Corporation Glass Encapsulated Diodes Product Portfolios and Specifications

Table 119. Toshiba Corporation Glass Encapsulated Diodes Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 120. Toshiba Corporation Main Business

Table 121. Toshiba Corporation Latest Developments

Table 122. Littelfuse Basic Information, Glass Encapsulated Diodes Manufacturing Base, Sales Area and Its Competitors

Table 123. Littelfuse Glass Encapsulated Diodes Product Portfolios and Specifications

Table 124. Littelfuse Glass Encapsulated Diodes Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 125. Littelfuse Main Business

Table 126. Littelfuse Latest Developments

Table 127. Fuji Electric Basic Information, Glass Encapsulated Diodes Manufacturing Base, Sales Area and Its Competitors

Table 128. Fuji Electric Glass Encapsulated Diodes Product Portfolios and Specifications

Table 129. Fuji Electric Glass Encapsulated Diodes Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 130. Fuji Electric Main Business

Table 131. Fuji Electric Latest Developments

Table 132. Shindengen Electric Basic Information, Glass Encapsulated Diodes Manufacturing Base, Sales Area and Its Competitors

Table 133. Shindengen Electric Glass Encapsulated Diodes Product Portfolios and Specifications

Table 134. Shindengen Electric Glass Encapsulated Diodes Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 135. Shindengen Electric Main Business

Table 136. Shindengen Electric Latest Developments

Table 137. Microchip Technology Basic Information, Glass Encapsulated Diodes Manufacturing Base, Sales Area and Its Competitors

Table 138. Microchip Technology Glass Encapsulated Diodes Product Portfolios and Specifications

Table 139. Microchip Technology Glass Encapsulated Diodes Sales (Million Units),

Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 140. Microchip Technology Main Business

Table 141. Microchip Technology Latest Developments

Table 142. TSMC Basic Information, Glass Encapsulated Diodes Manufacturing Base, Sales Area and Its Competitors

Table 143. TSMC Glass Encapsulated Diodes Product Portfolios and Specifications

Table 144. TSMC Glass Encapsulated Diodes Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 145. TSMC Main Business

Table 146. TSMC Latest Developments

Table 147. PANJIT Basic Information, Glass Encapsulated Diodes Manufacturing Base, Sales Area and Its Competitors

Table 148. PANJIT Glass Encapsulated Diodes Product Portfolios and Specifications

Table 149. PANJIT Glass Encapsulated Diodes Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 150. PANJIT Main Business

Table 151. PANJIT Latest Developments

Table 152. Yangjie Electronic Basic Information, Glass Encapsulated Diodes Manufacturing Base, Sales Area and Its Competitors

Table 153. Yangjie Electronic Glass Encapsulated Diodes Product Portfolios and Specifications

Table 154. Yangjie Electronic Glass Encapsulated Diodes Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 155. Yangjie Electronic Main Business

Table 156. Yangjie Electronic Latest Developments

Table 157. WeEn Semiconductors Basic Information, Glass Encapsulated Diodes Manufacturing Base, Sales Area and Its Competitors

Table 158. WeEn Semiconductors Glass Encapsulated Diodes Product Portfolios and Specifications

Table 159. WeEn Semiconductors Glass Encapsulated Diodes Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 160. WeEn Semiconductors Main Business

Table 161. WeEn Semiconductors Latest Developments

Table 162. Sanken Electric Basic Information, Glass Encapsulated Diodes Manufacturing Base, Sales Area and Its Competitors

Table 163. Sanken Electric Glass Encapsulated Diodes Product Portfolios and Specifications

Table 164. Sanken Electric Glass Encapsulated Diodes Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 165. Sanken Electric Main Business

Table 166. Sanken Electric Latest Developments

Table 167. Bourns Basic Information, Glass Encapsulated Diodes Manufacturing Base, Sales Area and Its Competitors

Table 168. Bourns Glass Encapsulated Diodes Product Portfolios and Specifications

Table 169. Bourns Glass Encapsulated Diodes Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 170. Bourns Main Business

Table 171. Bourns Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Picture of Glass Encapsulated Diodes

Figure 2. Glass Encapsulated Diodes Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global Glass Encapsulated Diodes Sales Growth Rate 2021-2032 (Million Units)

Figure 7. Global Glass Encapsulated Diodes Revenue Growth Rate 2021-2032 (\$ millions)

Figure 8. Glass Encapsulated Diodes Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 9. Glass Encapsulated Diodes Sales Market Share by Country/Region (2025)

Figure 10. Glass Encapsulated Diodes Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 11. Product Picture of 5 A

Figure 15. Global Glass Encapsulated Diodes Sales Market Share by Type in 2026

Figure 16. Global Glass Encapsulated Diodes Revenue Market Share by Type (2021-2026)

Figure 17. Product Picture of Standard Recovery

Figure 18. Product Picture of Fast Recovery

Figure 19. Product Picture of Ultra-Fast Recovery

Figure 20. Global Glass Encapsulated Diodes Sales Market Share by Switching Speed in 2026

Figure 21. Global Glass Encapsulated Diodes Revenue Market Share by Switching Speed (2021-2026)

Figure 22. Glass Encapsulated Diodes Consumed in Automotive Electronics

Figure 23. Global Glass Encapsulated Diodes Market: Automotive Electronics (2021-2026) & (Million Units)

Figure 24. Glass Encapsulated Diodes Consumed in Consumer Electronics

Figure 25. Global Glass Encapsulated Diodes Market: Consumer Electronics (2021-2026) & (Million Units)

Figure 26. Glass Encapsulated Diodes Consumed in Industrial Electronics

Figure 27. Global Glass Encapsulated Diodes Market: Industrial Electronics (2021-2026) & (Million Units)

Figure 28. Glass Encapsulated Diodes Consumed in Telecom Networks

Figure 29. Global Glass Encapsulated Diodes Market: Telecom Networks (2021-2026) & (Million Units)

Figure 30. Glass Encapsulated Diodes Consumed in Power & Energy Systems

Figure 31. Global Glass Encapsulated Diodes Market: Power & Energy Systems (2021-2026) & (Million Units)

Figure 32. Glass Encapsulated Diodes Consumed in Others

Figure 33. Global Glass Encapsulated Diodes Market: Others (2021-2026) & (Million Units)

Figure 34. Global Glass Encapsulated Diodes Sales Market Share by Application (2025)

Figure 35. Global Glass Encapsulated Diodes Revenue Market Share by Application in 2025

Figure 36. Glass Encapsulated Diodes Sales by Company in 2025 (Million Units)

Figure 37. Global Glass Encapsulated Diodes Sales Market Share by Company in 2025

Figure 38. Glass Encapsulated Diodes Revenue by Company in 2025 (\$ millions)

Figure 39. Global Glass Encapsulated Diodes Revenue Market Share by Company in 2025

Figure 40. Global Glass Encapsulated Diodes Sales Market Share by Geographic Region (2021-2026)

Figure 41. Global Glass Encapsulated Diodes Revenue Market Share by Geographic Region in 2025

Figure 42. Americas Glass Encapsulated Diodes Sales 2021-2026 (Million Units)

Figure 43. Americas Glass Encapsulated Diodes Revenue 2021-2026 (\$ millions)

Figure 44. APAC Glass Encapsulated Diodes Sales 2021-2026 (Million Units)

Figure 45. APAC Glass Encapsulated Diodes Revenue 2021-2026 (\$ millions)

Figure 46. Europe Glass Encapsulated Diodes Sales 2021-2026 (Million Units)

Figure 47. Europe Glass Encapsulated Diodes Revenue 2021-2026 (\$ millions)

Figure 48. Middle East & Africa Glass Encapsulated Diodes Sales 2021-2026 (Million Units)

Figure 49. Middle East & Africa Glass Encapsulated Diodes Revenue 2021-2026 (\$ millions)

Figure 50. Americas Glass Encapsulated Diodes Sales Market Share by Country in 2025

Figure 51. Americas Glass Encapsulated Diodes Revenue Market Share by Country (2021-2026)

Figure 52. Americas Glass Encapsulated Diodes Sales Market Share by Type (2021-2026)

Figure 53. Americas Glass Encapsulated Diodes Sales Market Share by Application (2021-2026)

Figure 54. United States Glass Encapsulated Diodes Revenue Growth 2021-2026 (\$

millions)

Figure 55. Canada Glass Encapsulated Diodes Revenue Growth 2021-2026 (\$ millions)

Figure 56. Mexico Glass Encapsulated Diodes Revenue Growth 2021-2026 (\$ millions)

Figure 57. Brazil Glass Encapsulated Diodes Revenue Growth 2021-2026 (\$ millions)

Figure 58. APAC Glass Encapsulated Diodes Sales Market Share by Region in 2025

Figure 59. APAC Glass Encapsulated Diodes Revenue Market Share by Region
(2021-2026)

Figure 60. APAC Glass Encapsulated Diodes Sales Market Share by Type (2021-2026)

Figure 61. APAC Glass Encapsulated Diodes Sales Market Share by Application
(2021-2026)

Figure 62. China Glass Encapsulated Diodes Revenue Growth 2021-2026 (\$ millions)

Figure 63. Japan Glass Encapsulated Diodes Revenue Growth 2021-2026 (\$ millions)

Figure 64. South Korea Glass Encapsulated Diodes Revenue Growth 2021-2026 (\$
millions)

Figure 65. Southeast Asia Glass Encapsulated Diodes Revenue Growth 2021-2026 (\$
millions)

Figure 66. India Glass Encapsulated Diodes Revenue Growth 2021-2026 (\$ millions)

Figure 67. Australia Glass Encapsulated Diodes Revenue Growth 2021-2026 (\$
millions)

Figure 68. China Taiwan Glass Encapsulated Diodes Revenue Growth 2021-2026 (\$
millions)

Figure 69. Europe Glass Encapsulated Diodes Sales Market Share by Country in 2025

Figure 70. Europe Glass Encapsulated Diodes Revenue Market Share by Country
(2021-2026)

Figure 71. Europe Glass Encapsulated Diodes Sales Market Share by Type
(2021-2026)

Figure 72. Europe Glass Encapsulated Diodes Sales Market Share by Application
(2021-2026)

Figure 73. Germany Glass Encapsulated Diodes Revenue Growth 2021-2026 (\$
millions)

Figure 74. France Glass Encapsulated Diodes Revenue Growth 2021-2026 (\$ millions)

Figure 75. UK Glass Encapsulated Diodes Revenue Growth 2021-2026 (\$ millions)

Figure 76. Italy Glass Encapsulated Diodes Revenue Growth 2021-2026 (\$ millions)

Figure 77. Russia Glass Encapsulated Diodes Revenue Growth 2021-2026 (\$ millions)

Figure 78. Middle East & Africa Glass Encapsulated Diodes Sales Market Share by
Country (2021-2026)

Figure 79. Middle East & Africa Glass Encapsulated Diodes Sales Market Share by
Type (2021-2026)

Figure 80. Middle East & Africa Glass Encapsulated Diodes Sales Market Share by

Application (2021-2026)

Figure 81. Egypt Glass Encapsulated Diodes Revenue Growth 2021-2026 (\$ millions)

Figure 82. South Africa Glass Encapsulated Diodes Revenue Growth 2021-2026 (\$ millions)

Figure 83. Israel Glass Encapsulated Diodes Revenue Growth 2021-2026 (\$ millions)

Figure 84. Turkey Glass Encapsulated Diodes Revenue Growth 2021-2026 (\$ millions)

Figure 85. GCC Countries Glass Encapsulated Diodes Revenue Growth 2021-2026 (\$ millions)

Figure 86. Manufacturing Cost Structure Analysis of Glass Encapsulated Diodes in 2026

Figure 87. Manufacturing Process Analysis of Glass Encapsulated Diodes

Figure 88. Industry Chain Structure of Glass Encapsulated Diodes

Figure 89. Channels of Distribution

Figure 90. Global Glass Encapsulated Diodes Sales Market Forecast by Region (2027-2032)

Figure 91. Global Glass Encapsulated Diodes Revenue Market Share Forecast by Region (2027-2032)

Figure 92. Global Glass Encapsulated Diodes Sales Market Share Forecast by Type (2027-2032)

Figure 93. Global Glass Encapsulated Diodes Revenue Market Share Forecast by Type (2027-2032)

Figure 94. Global Glass Encapsulated Diodes Sales Market Share Forecast by Application (2027-2032)

Figure 95. Global Glass Encapsulated Diodes Revenue Market Share Forecast by Application (2027-2032)

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