

Global Plastic Sealed Rectifier Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Plastic Sealed Rectifier market size was valued at US\$ 880 million in 2025 and is forecast to a readjusted size of US\$ 1094 million by 2032 with a CAGR of 3.2% during review period.

In 2025, the global production volume of plastic-encapsulated rectifier diodes is projected to reach 570 million units, with an average selling price of \$1.50 per unit. The global annual production capacity for these devices stands at approximately 800 million units, accompanied by a gross margin of approximately 25.2%. A plastic-encapsulated rectifier diode is an electronic component?specifically, a type of rectifier diode. Its primary function is to convert alternating current (AC) into direct current (DC), and it is utilized in a wide variety of power supply circuits. The term 'plastic-encapsulated' refers to the device's housing, which is encased in plastic material; this design provides excellent electrical insulation and mechanical protection while simultaneously facilitating ease of installation and use. The upstream supply chain for plastic-encapsulated rectifier diodes involves raw materials such as silicon wafers, copper lead frames, and plastic molding compounds. The midstream segment consists of the manufacturers of these rectifier diodes, while the downstream market encompasses major application sectors such as automotive, home appliances, and industrial equipment.

The market for plastic-encapsulated rectifier diodes is currently exhibiting a trend of steady growth, driven by demand from sectors such as new energy vehicles, industrial automation, and consumer electronics, resulting in a continuous expansion of their application scope. Technologically, the industry is evolving toward higher efficiency, smaller form factors, and enhanced reliability; the constant emergence of novel packaging materials and processes is further boosting product performance. Market

competition is intense, characterized by the joint participation of both international manufacturers and domestic enterprises, leading to a gradual diversification in market share distribution. Chinese companies have made significant strides in technological R&D and production capacity expansion, thereby progressively strengthening their competitiveness within the global market. Nevertheless, factors such as fluctuations in raw material prices, risks associated with technological iteration, and shifts in industry policies continue to introduce a degree of uncertainty into the market's development trajectory.

This report is a detailed and comprehensive analysis for global Plastic Sealed Rectifier market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Plastic Sealed Rectifier market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Plastic Sealed Rectifier market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Plastic Sealed Rectifier market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Plastic Sealed Rectifier market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Plastic Sealed Rectifier

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Plastic Sealed Rectifier market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Onsemi, Rohm, Vishay, Pan Jit International, NXP, Sanken Electronic, Diodes Inc., Panasonic, Kexin, MOSPEC SEMICONDUCTOR, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Plastic Sealed Rectifier market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Fully Plastic Sealed

Plastic Sealed with Heat Sink

Market segment by Encapsulation Materials

Epoxy Resin

Silicone Gel

Market segment by Reverse Voltage Rating

200V and Below

200V ? 600V

Above 600V

Market segment by Application

Automobile

Home Appliance

Industrial

Consumer Electronics

Others

Major players covered

Onsemi

Rohm

Vishay

Pan Jit International

NXP

Sanken Electronic

Diodes Inc.

Panasonic

Kexin

MOSPEC SEMICONDUCTOR

TECHSEM

GOOD-ARK

Changzhou Meibangli Electronic

CRK

DOWO

Shanghai Sinble Electronics

Yangzhou Yangjie

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Plastic Sealed Rectifier product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Plastic Sealed Rectifier, with price, sales quantity, revenue, and global market share of Plastic Sealed Rectifier from 2021 to 2026.

Chapter 3, the Plastic Sealed Rectifier competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Plastic Sealed Rectifier breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Plastic Sealed Rectifier market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Plastic Sealed Rectifier.

Chapter 14 and 15, to describe Plastic Sealed Rectifier sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Plastic Sealed Rectifier Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Fully Plastic Sealed

1.3.3 Plastic Sealed with Heat Sink

1.4 Market Analysis by Encapsulation Materials

1.4.1 Overview: Global Plastic Sealed Rectifier Consumption Value by Encapsulation Materials: 2021 Versus 2025 Versus 2032

1.4.2 Epoxy Resin

1.4.3 Silicone Gel

1.5 Market Analysis by Reverse Voltage Rating

1.5.1 Overview: Global Plastic Sealed Rectifier Consumption Value by Reverse Voltage Rating: 2021 Versus 2025 Versus 2032

1.5.2 200V and Below

1.5.3 200V ? 600V

1.5.4 Above 600V

1.6 Market Analysis by Application

1.6.1 Overview: Global Plastic Sealed Rectifier Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Automobile

1.6.3 Home Appliance

1.6.4 Industrial

1.6.5 Consumer Electronics

1.6.6 Others

1.7 Global Plastic Sealed Rectifier Market Size & Forecast

1.7.1 Global Plastic Sealed Rectifier Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Plastic Sealed Rectifier Sales Quantity (2021-2032)

1.7.3 Global Plastic Sealed Rectifier Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Onsemi

2.1.1 Onsemi Details

- 2.1.2 Onsemi Major Business
- 2.1.3 Onsemi Plastic Sealed Rectifier Product and Services
- 2.1.4 Onsemi Plastic Sealed Rectifier Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 Onsemi Recent Developments/Updates
- 2.2 Rohm
 - 2.2.1 Rohm Details
 - 2.2.2 Rohm Major Business
 - 2.2.3 Rohm Plastic Sealed Rectifier Product and Services
 - 2.2.4 Rohm Plastic Sealed Rectifier Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.2.5 Rohm Recent Developments/Updates
- 2.3 Vishay
 - 2.3.1 Vishay Details
 - 2.3.2 Vishay Major Business
 - 2.3.3 Vishay Plastic Sealed Rectifier Product and Services
 - 2.3.4 Vishay Plastic Sealed Rectifier Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.3.5 Vishay Recent Developments/Updates
- 2.4 Pan Jit International
 - 2.4.1 Pan Jit International Details
 - 2.4.2 Pan Jit International Major Business
 - 2.4.3 Pan Jit International Plastic Sealed Rectifier Product and Services
 - 2.4.4 Pan Jit International Plastic Sealed Rectifier Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.4.5 Pan Jit International Recent Developments/Updates
- 2.5 NXP
 - 2.5.1 NXP Details
 - 2.5.2 NXP Major Business
 - 2.5.3 NXP Plastic Sealed Rectifier Product and Services
 - 2.5.4 NXP Plastic Sealed Rectifier Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 NXP Recent Developments/Updates
- 2.6 Sanken Electronic
 - 2.6.1 Sanken Electronic Details
 - 2.6.2 Sanken Electronic Major Business
 - 2.6.3 Sanken Electronic Plastic Sealed Rectifier Product and Services
 - 2.6.4 Sanken Electronic Plastic Sealed Rectifier Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

- 2.6.5 Sanken Electronic Recent Developments/Updates
- 2.7 Diodes Inc.
 - 2.7.1 Diodes Inc. Details
 - 2.7.2 Diodes Inc. Major Business
 - 2.7.3 Diodes Inc. Plastic Sealed Rectifier Product and Services
 - 2.7.4 Diodes Inc. Plastic Sealed Rectifier Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 Diodes Inc. Recent Developments/Updates
- 2.8 Panasonic
 - 2.8.1 Panasonic Details
 - 2.8.2 Panasonic Major Business
 - 2.8.3 Panasonic Plastic Sealed Rectifier Product and Services
 - 2.8.4 Panasonic Plastic Sealed Rectifier Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 Panasonic Recent Developments/Updates
- 2.9 Kexin
 - 2.9.1 Kexin Details
 - 2.9.2 Kexin Major Business
 - 2.9.3 Kexin Plastic Sealed Rectifier Product and Services
 - 2.9.4 Kexin Plastic Sealed Rectifier Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 Kexin Recent Developments/Updates
- 2.10 MOSPEC SEMICONDUCTOR
 - 2.10.1 MOSPEC SEMICONDUCTOR Details
 - 2.10.2 MOSPEC SEMICONDUCTOR Major Business
 - 2.10.3 MOSPEC SEMICONDUCTOR Plastic Sealed Rectifier Product and Services
 - 2.10.4 MOSPEC SEMICONDUCTOR Plastic Sealed Rectifier Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.10.5 MOSPEC SEMICONDUCTOR Recent Developments/Updates
- 2.11 TECHSEM
 - 2.11.1 TECHSEM Details
 - 2.11.2 TECHSEM Major Business
 - 2.11.3 TECHSEM Plastic Sealed Rectifier Product and Services
 - 2.11.4 TECHSEM Plastic Sealed Rectifier Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.11.5 TECHSEM Recent Developments/Updates
- 2.12 GOOD-ARK
 - 2.12.1 GOOD-ARK Details
 - 2.12.2 GOOD-ARK Major Business

- 2.12.3 GOOD-ARK Plastic Sealed Rectifier Product and Services
- 2.12.4 GOOD-ARK Plastic Sealed Rectifier Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.12.5 GOOD-ARK Recent Developments/Updates
- 2.13 Changzhou Meibangli Electronic
 - 2.13.1 Changzhou Meibangli Electronic Details
 - 2.13.2 Changzhou Meibangli Electronic Major Business
 - 2.13.3 Changzhou Meibangli Electronic Plastic Sealed Rectifier Product and Services
 - 2.13.4 Changzhou Meibangli Electronic Plastic Sealed Rectifier Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.13.5 Changzhou Meibangli Electronic Recent Developments/Updates
- 2.14 CRK
 - 2.14.1 CRK Details
 - 2.14.2 CRK Major Business
 - 2.14.3 CRK Plastic Sealed Rectifier Product and Services
 - 2.14.4 CRK Plastic Sealed Rectifier Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.14.5 CRK Recent Developments/Updates
- 2.15 DOWO
 - 2.15.1 DOWO Details
 - 2.15.2 DOWO Major Business
 - 2.15.3 DOWO Plastic Sealed Rectifier Product and Services
 - 2.15.4 DOWO Plastic Sealed Rectifier Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.15.5 DOWO Recent Developments/Updates
- 2.16 Shanghai Sinble Electronics
 - 2.16.1 Shanghai Sinble Electronics Details
 - 2.16.2 Shanghai Sinble Electronics Major Business
 - 2.16.3 Shanghai Sinble Electronics Plastic Sealed Rectifier Product and Services
 - 2.16.4 Shanghai Sinble Electronics Plastic Sealed Rectifier Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.16.5 Shanghai Sinble Electronics Recent Developments/Updates
- 2.17 Yangzhou Yangjie
 - 2.17.1 Yangzhou Yangjie Details
 - 2.17.2 Yangzhou Yangjie Major Business
 - 2.17.3 Yangzhou Yangjie Plastic Sealed Rectifier Product and Services
 - 2.17.4 Yangzhou Yangjie Plastic Sealed Rectifier Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.17.5 Yangzhou Yangjie Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: PLASTIC SEALED RECTIFIER BY MANUFACTURER

- 3.1 Global Plastic Sealed Rectifier Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Plastic Sealed Rectifier Revenue by Manufacturer (2021-2026)
- 3.3 Global Plastic Sealed Rectifier Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Plastic Sealed Rectifier by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 Plastic Sealed Rectifier Manufacturer Market Share in 2025
 - 3.4.3 Top 6 Plastic Sealed Rectifier Manufacturer Market Share in 2025
- 3.5 Plastic Sealed Rectifier Market: Overall Company Footprint Analysis
 - 3.5.1 Plastic Sealed Rectifier Market: Region Footprint
 - 3.5.2 Plastic Sealed Rectifier Market: Company Product Type Footprint
 - 3.5.3 Plastic Sealed Rectifier Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Plastic Sealed Rectifier Market Size by Region
 - 4.1.1 Global Plastic Sealed Rectifier Sales Quantity by Region (2021-2032)
 - 4.1.2 Global Plastic Sealed Rectifier Consumption Value by Region (2021-2032)
 - 4.1.3 Global Plastic Sealed Rectifier Average Price by Region (2021-2032)
- 4.2 North America Plastic Sealed Rectifier Consumption Value (2021-2032)
- 4.3 Europe Plastic Sealed Rectifier Consumption Value (2021-2032)
- 4.4 Asia-Pacific Plastic Sealed Rectifier Consumption Value (2021-2032)
- 4.5 South America Plastic Sealed Rectifier Consumption Value (2021-2032)
- 4.6 Middle East & Africa Plastic Sealed Rectifier Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Plastic Sealed Rectifier Sales Quantity by Type (2021-2032)
- 5.2 Global Plastic Sealed Rectifier Consumption Value by Type (2021-2032)
- 5.3 Global Plastic Sealed Rectifier Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Plastic Sealed Rectifier Sales Quantity by Application (2021-2032)
- 6.2 Global Plastic Sealed Rectifier Consumption Value by Application (2021-2032)
- 6.3 Global Plastic Sealed Rectifier Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America Plastic Sealed Rectifier Sales Quantity by Type (2021-2032)
- 7.2 North America Plastic Sealed Rectifier Sales Quantity by Application (2021-2032)
- 7.3 North America Plastic Sealed Rectifier Market Size by Country
 - 7.3.1 North America Plastic Sealed Rectifier Sales Quantity by Country (2021-2032)
 - 7.3.2 North America Plastic Sealed Rectifier Consumption Value by Country (2021-2032)
 - 7.3.3 United States Market Size and Forecast (2021-2032)
 - 7.3.4 Canada Market Size and Forecast (2021-2032)
 - 7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

- 8.1 Europe Plastic Sealed Rectifier Sales Quantity by Type (2021-2032)
- 8.2 Europe Plastic Sealed Rectifier Sales Quantity by Application (2021-2032)
- 8.3 Europe Plastic Sealed Rectifier Market Size by Country
 - 8.3.1 Europe Plastic Sealed Rectifier Sales Quantity by Country (2021-2032)
 - 8.3.2 Europe Plastic Sealed Rectifier Consumption Value by Country (2021-2032)
 - 8.3.3 Germany Market Size and Forecast (2021-2032)
 - 8.3.4 France Market Size and Forecast (2021-2032)
 - 8.3.5 United Kingdom Market Size and Forecast (2021-2032)
 - 8.3.6 Russia Market Size and Forecast (2021-2032)
 - 8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Plastic Sealed Rectifier Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific Plastic Sealed Rectifier Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific Plastic Sealed Rectifier Market Size by Region
 - 9.3.1 Asia-Pacific Plastic Sealed Rectifier Sales Quantity by Region (2021-2032)
 - 9.3.2 Asia-Pacific Plastic Sealed Rectifier Consumption Value by Region (2021-2032)
 - 9.3.3 China Market Size and Forecast (2021-2032)
 - 9.3.4 Japan Market Size and Forecast (2021-2032)
 - 9.3.5 South Korea Market Size and Forecast (2021-2032)

- 9.3.6 India Market Size and Forecast (2021-2032)
- 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
- 9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America Plastic Sealed Rectifier Sales Quantity by Type (2021-2032)
- 10.2 South America Plastic Sealed Rectifier Sales Quantity by Application (2021-2032)
- 10.3 South America Plastic Sealed Rectifier Market Size by Country
 - 10.3.1 South America Plastic Sealed Rectifier Sales Quantity by Country (2021-2032)
 - 10.3.2 South America Plastic Sealed Rectifier Consumption Value by Country (2021-2032)
 - 10.3.3 Brazil Market Size and Forecast (2021-2032)
 - 10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Plastic Sealed Rectifier Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa Plastic Sealed Rectifier Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa Plastic Sealed Rectifier Market Size by Country
 - 11.3.1 Middle East & Africa Plastic Sealed Rectifier Sales Quantity by Country (2021-2032)
 - 11.3.2 Middle East & Africa Plastic Sealed Rectifier Consumption Value by Country (2021-2032)
 - 11.3.3 Turkey Market Size and Forecast (2021-2032)
 - 11.3.4 Egypt Market Size and Forecast (2021-2032)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
 - 11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

- 12.1 Plastic Sealed Rectifier Market Drivers
- 12.2 Plastic Sealed Rectifier Market Restraints
- 12.3 Plastic Sealed Rectifier Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Plastic Sealed Rectifier and Key Manufacturers

13.2 Manufacturing Costs Percentage of Plastic Sealed Rectifier

13.3 Plastic Sealed Rectifier Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Plastic Sealed Rectifier Typical Distributors

14.3 Plastic Sealed Rectifier Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Plastic Sealed Rectifier Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Plastic Sealed Rectifier Consumption Value by Encapsulation Materials, (USD Million), 2021 & 2025 & 2032

Table 3. Global Plastic Sealed Rectifier Consumption Value by Reverse Voltage Rating, (USD Million), 2021 & 2025 & 2032

Table 4. Global Plastic Sealed Rectifier Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Onsemi Basic Information, Manufacturing Base and Competitors

Table 6. Onsemi Major Business

Table 7. Onsemi Plastic Sealed Rectifier Product and Services

Table 8. Onsemi Plastic Sealed Rectifier Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Onsemi Recent Developments/Updates

Table 10. Rohm Basic Information, Manufacturing Base and Competitors

Table 11. Rohm Major Business

Table 12. Rohm Plastic Sealed Rectifier Product and Services

Table 13. Rohm Plastic Sealed Rectifier Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Rohm Recent Developments/Updates

Table 15. Vishay Basic Information, Manufacturing Base and Competitors

Table 16. Vishay Major Business

Table 17. Vishay Plastic Sealed Rectifier Product and Services

Table 18. Vishay Plastic Sealed Rectifier Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Vishay Recent Developments/Updates

Table 20. Pan Jit International Basic Information, Manufacturing Base and Competitors

Table 21. Pan Jit International Major Business

Table 22. Pan Jit International Plastic Sealed Rectifier Product and Services

Table 23. Pan Jit International Plastic Sealed Rectifier Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Pan Jit International Recent Developments/Updates

Table 25. NXP Basic Information, Manufacturing Base and Competitors

Table 26. NXP Major Business

Table 27. NXP Plastic Sealed Rectifier Product and Services

Table 28. NXP Plastic Sealed Rectifier Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. NXP Recent Developments/Updates

Table 30. Sanken Electronic Basic Information, Manufacturing Base and Competitors

Table 31. Sanken Electronic Major Business

Table 32. Sanken Electronic Plastic Sealed Rectifier Product and Services

Table 33. Sanken Electronic Plastic Sealed Rectifier Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Sanken Electronic Recent Developments/Updates

Table 35. Diodes Inc. Basic Information, Manufacturing Base and Competitors

Table 36. Diodes Inc. Major Business

Table 37. Diodes Inc. Plastic Sealed Rectifier Product and Services

Table 38. Diodes Inc. Plastic Sealed Rectifier Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Diodes Inc. Recent Developments/Updates

Table 40. Panasonic Basic Information, Manufacturing Base and Competitors

Table 41. Panasonic Major Business

Table 42. Panasonic Plastic Sealed Rectifier Product and Services

Table 43. Panasonic Plastic Sealed Rectifier Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Panasonic Recent Developments/Updates

Table 45. Kexin Basic Information, Manufacturing Base and Competitors

Table 46. Kexin Major Business

Table 47. Kexin Plastic Sealed Rectifier Product and Services

Table 48. Kexin Plastic Sealed Rectifier Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Kexin Recent Developments/Updates

Table 50. MOSPEC SEMICONDUCTOR Basic Information, Manufacturing Base and Competitors

Table 51. MOSPEC SEMICONDUCTOR Major Business

Table 52. MOSPEC SEMICONDUCTOR Plastic Sealed Rectifier Product and Services

Table 53. MOSPEC SEMICONDUCTOR Plastic Sealed Rectifier Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. MOSPEC SEMICONDUCTOR Recent Developments/Updates

Table 55. TECHSEM Basic Information, Manufacturing Base and Competitors

Table 56. TECHSEM Major Business

Table 57. TECHSEM Plastic Sealed Rectifier Product and Services

Table 58. TECHSEM Plastic Sealed Rectifier Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. TECHSEM Recent Developments/Updates

Table 60. GOOD-ARK Basic Information, Manufacturing Base and Competitors

Table 61. GOOD-ARK Major Business

Table 62. GOOD-ARK Plastic Sealed Rectifier Product and Services

Table 63. GOOD-ARK Plastic Sealed Rectifier Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. GOOD-ARK Recent Developments/Updates

Table 65. Changzhou Meibangli Electronic Basic Information, Manufacturing Base and Competitors

Table 66. Changzhou Meibangli Electronic Major Business

Table 67. Changzhou Meibangli Electronic Plastic Sealed Rectifier Product and Services

Table 68. Changzhou Meibangli Electronic Plastic Sealed Rectifier Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 69. Changzhou Meibangli Electronic Recent Developments/Updates

Table 70. CRK Basic Information, Manufacturing Base and Competitors

Table 71. CRK Major Business

Table 72. CRK Plastic Sealed Rectifier Product and Services

Table 73. CRK Plastic Sealed Rectifier Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 74. CRK Recent Developments/Updates

Table 75. DOWO Basic Information, Manufacturing Base and Competitors

Table 76. DOWO Major Business

Table 77. DOWO Plastic Sealed Rectifier Product and Services

Table 78. DOWO Plastic Sealed Rectifier Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. DOWO Recent Developments/Updates

Table 80. Shanghai Sinble Electronics Basic Information, Manufacturing Base and Competitors

Table 81. Shanghai Sinble Electronics Major Business

Table 82. Shanghai Sinble Electronics Plastic Sealed Rectifier Product and Services

Table 83. Shanghai Sinble Electronics Plastic Sealed Rectifier Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Shanghai Sinble Electronics Recent Developments/Updates

Table 85. Yangzhou Yangjie Basic Information, Manufacturing Base and Competitors

Table 86. Yangzhou Yangjie Major Business

Table 87. Yangzhou Yangjie Plastic Sealed Rectifier Product and Services

Table 88. Yangzhou Yangjie Plastic Sealed Rectifier Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 89. Yangzhou Yangjie Recent Developments/Updates

Table 90. Global Plastic Sealed Rectifier Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 91. Global Plastic Sealed Rectifier Revenue by Manufacturer (2021-2026) & (USD Million)

Table 92. Global Plastic Sealed Rectifier Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 93. Market Position of Manufacturers in Plastic Sealed Rectifier, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 94. Head Office and Plastic Sealed Rectifier Production Site of Key Manufacturer

Table 95. Plastic Sealed Rectifier Market: Company Product Type Footprint

Table 96. Plastic Sealed Rectifier Market: Company Product Application Footprint

Table 97. Plastic Sealed Rectifier New Market Entrants and Barriers to Market Entry

Table 98. Plastic Sealed Rectifier Mergers, Acquisition, Agreements, and Collaborations

Table 99. Global Plastic Sealed Rectifier Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 100. Global Plastic Sealed Rectifier Sales Quantity by Region (2021-2026) & (K Units)

Table 101. Global Plastic Sealed Rectifier Sales Quantity by Region (2027-2032) & (K Units)

Table 102. Global Plastic Sealed Rectifier Consumption Value by Region (2021-2026) & (USD Million)

Table 103. Global Plastic Sealed Rectifier Consumption Value by Region (2027-2032) & (USD Million)

Table 104. Global Plastic Sealed Rectifier Average Price by Region (2021-2026) & (US\$/Unit)

Table 105. Global Plastic Sealed Rectifier Average Price by Region (2027-2032) & (US\$/Unit)

Table 106. Global Plastic Sealed Rectifier Sales Quantity by Type (2021-2026) & (K Units)

Table 107. Global Plastic Sealed Rectifier Sales Quantity by Type (2027-2032) & (K Units)

Table 108. Global Plastic Sealed Rectifier Consumption Value by Type (2021-2026) & (USD Million)

Table 109. Global Plastic Sealed Rectifier Consumption Value by Type (2027-2032) &

(USD Million)

Table 110. Global Plastic Sealed Rectifier Average Price by Type (2021-2026) & (US\$/Unit)

Table 111. Global Plastic Sealed Rectifier Average Price by Type (2027-2032) & (US\$/Unit)

Table 112. Global Plastic Sealed Rectifier Sales Quantity by Application (2021-2026) & (K Units)

Table 113. Global Plastic Sealed Rectifier Sales Quantity by Application (2027-2032) & (K Units)

Table 114. Global Plastic Sealed Rectifier Consumption Value by Application (2021-2026) & (USD Million)

Table 115. Global Plastic Sealed Rectifier Consumption Value by Application (2027-2032) & (USD Million)

Table 116. Global Plastic Sealed Rectifier Average Price by Application (2021-2026) & (US\$/Unit)

Table 117. Global Plastic Sealed Rectifier Average Price by Application (2027-2032) & (US\$/Unit)

Table 118. North America Plastic Sealed Rectifier Sales Quantity by Type (2021-2026) & (K Units)

Table 119. North America Plastic Sealed Rectifier Sales Quantity by Type (2027-2032) & (K Units)

Table 120. North America Plastic Sealed Rectifier Sales Quantity by Application (2021-2026) & (K Units)

Table 121. North America Plastic Sealed Rectifier Sales Quantity by Application (2027-2032) & (K Units)

Table 122. North America Plastic Sealed Rectifier Sales Quantity by Country (2021-2026) & (K Units)

Table 123. North America Plastic Sealed Rectifier Sales Quantity by Country (2027-2032) & (K Units)

Table 124. North America Plastic Sealed Rectifier Consumption Value by Country (2021-2026) & (USD Million)

Table 125. North America Plastic Sealed Rectifier Consumption Value by Country (2027-2032) & (USD Million)

Table 126. Europe Plastic Sealed Rectifier Sales Quantity by Type (2021-2026) & (K Units)

Table 127. Europe Plastic Sealed Rectifier Sales Quantity by Type (2027-2032) & (K Units)

Table 128. Europe Plastic Sealed Rectifier Sales Quantity by Application (2021-2026) & (K Units)

Table 129. Europe Plastic Sealed Rectifier Sales Quantity by Application (2027-2032) & (K Units)

Table 130. Europe Plastic Sealed Rectifier Sales Quantity by Country (2021-2026) & (K Units)

Table 131. Europe Plastic Sealed Rectifier Sales Quantity by Country (2027-2032) & (K Units)

Table 132. Europe Plastic Sealed Rectifier Consumption Value by Country (2021-2026) & (USD Million)

Table 133. Europe Plastic Sealed Rectifier Consumption Value by Country (2027-2032) & (USD Million)

Table 134. Asia-Pacific Plastic Sealed Rectifier Sales Quantity by Type (2021-2026) & (K Units)

Table 135. Asia-Pacific Plastic Sealed Rectifier Sales Quantity by Type (2027-2032) & (K Units)

Table 136. Asia-Pacific Plastic Sealed Rectifier Sales Quantity by Application (2021-2026) & (K Units)

Table 137. Asia-Pacific Plastic Sealed Rectifier Sales Quantity by Application (2027-2032) & (K Units)

Table 138. Asia-Pacific Plastic Sealed Rectifier Sales Quantity by Region (2021-2026) & (K Units)

Table 139. Asia-Pacific Plastic Sealed Rectifier Sales Quantity by Region (2027-2032) & (K Units)

Table 140. Asia-Pacific Plastic Sealed Rectifier Consumption Value by Region (2021-2026) & (USD Million)

Table 141. Asia-Pacific Plastic Sealed Rectifier Consumption Value by Region (2027-2032) & (USD Million)

Table 142. South America Plastic Sealed Rectifier Sales Quantity by Type (2021-2026) & (K Units)

Table 143. South America Plastic Sealed Rectifier Sales Quantity by Type (2027-2032) & (K Units)

Table 144. South America Plastic Sealed Rectifier Sales Quantity by Application (2021-2026) & (K Units)

Table 145. South America Plastic Sealed Rectifier Sales Quantity by Application (2027-2032) & (K Units)

Table 146. South America Plastic Sealed Rectifier Sales Quantity by Country (2021-2026) & (K Units)

Table 147. South America Plastic Sealed Rectifier Sales Quantity by Country (2027-2032) & (K Units)

Table 148. South America Plastic Sealed Rectifier Consumption Value by Country

(2021-2026) & (USD Million)

Table 149. South America Plastic Sealed Rectifier Consumption Value by Country

(2027-2032) & (USD Million)

Table 150. Middle East & Africa Plastic Sealed Rectifier Sales Quantity by Type

(2021-2026) & (K Units)

Table 151. Middle East & Africa Plastic Sealed Rectifier Sales Quantity by Type

(2027-2032) & (K Units)

Table 152. Middle East & Africa Plastic Sealed Rectifier Sales Quantity by Application

(2021-2026) & (K Units)

Table 153. Middle East & Africa Plastic Sealed Rectifier Sales Quantity by Application

(2027-2032) & (K Units)

Table 154. Middle East & Africa Plastic Sealed Rectifier Sales Quantity by Country

(2021-2026) & (K Units)

Table 155. Middle East & Africa Plastic Sealed Rectifier Sales Quantity by Country

(2027-2032) & (K Units)

Table 156. Middle East & Africa Plastic Sealed Rectifier Consumption Value by Country

(2021-2026) & (USD Million)

Table 157. Middle East & Africa Plastic Sealed Rectifier Consumption Value by Country

(2027-2032) & (USD Million)

Table 158. Plastic Sealed Rectifier Raw Material

Table 159. Key Manufacturers of Plastic Sealed Rectifier Raw Materials

Table 160. Plastic Sealed Rectifier Typical Distributors

Table 161. Plastic Sealed Rectifier Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Plastic Sealed Rectifier Picture
- Figure 2. Global Plastic Sealed Rectifier Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Plastic Sealed Rectifier Revenue Market Share by Type in 2025
- Figure 4. Fully Plastic Sealed Examples
- Figure 5. Plastic Sealed with Heat Sink Examples
- Figure 6. Global Plastic Sealed Rectifier Revenue by Encapsulation Materials, (USD Million), 2021 & 2025 & 2032
- Figure 7. Global Plastic Sealed Rectifier Revenue Market Share by Encapsulation Materials in 2025
- Figure 8. Epoxy Resin Examples
- Figure 9. Silicone Gel Examples
- Figure 10. Global Plastic Sealed Rectifier Revenue by Reverse Voltage Rating, (USD Million), 2021 & 2025 & 2032
- Figure 11. Global Plastic Sealed Rectifier Revenue Market Share by Reverse Voltage Rating in 2025
- Figure 12. 200V and Below Examples
- Figure 13. 200V ? 600V Examples
- Figure 14. Above 600V Examples
- Figure 15. Global Plastic Sealed Rectifier Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 16. Global Plastic Sealed Rectifier Revenue Market Share by Application in 2025
- Figure 17. Automobile Examples
- Figure 18. Home Appliance Examples
- Figure 19. Industrial Examples
- Figure 20. Consumer Electronics Examples
- Figure 21. Others Examples
- Figure 22. Global Plastic Sealed Rectifier Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 23. Global Plastic Sealed Rectifier Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 24. Global Plastic Sealed Rectifier Sales Quantity (2021-2032) & (K Units)
- Figure 25. Global Plastic Sealed Rectifier Price (2021-2032) & (US\$/Unit)
- Figure 26. Global Plastic Sealed Rectifier Sales Quantity Market Share by Manufacturer in 2025

Figure 27. Global Plastic Sealed Rectifier Revenue Market Share by Manufacturer in 2025

Figure 28. Producer Shipments of Plastic Sealed Rectifier by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 29. Top 3 Plastic Sealed Rectifier Manufacturer (Revenue) Market Share in 2025

Figure 30. Top 6 Plastic Sealed Rectifier Manufacturer (Revenue) Market Share in 2025

Figure 31. Global Plastic Sealed Rectifier Sales Quantity Market Share by Region (2021-2032)

Figure 32. Global Plastic Sealed Rectifier Consumption Value Market Share by Region (2021-2032)

Figure 33. North America Plastic Sealed Rectifier Consumption Value (2021-2032) & (USD Million)

Figure 34. Europe Plastic Sealed Rectifier Consumption Value (2021-2032) & (USD Million)

Figure 35. Asia-Pacific Plastic Sealed Rectifier Consumption Value (2021-2032) & (USD Million)

Figure 36. South America Plastic Sealed Rectifier Consumption Value (2021-2032) & (USD Million)

Figure 37. Middle East & Africa Plastic Sealed Rectifier Consumption Value (2021-2032) & (USD Million)

Figure 38. Global Plastic Sealed Rectifier Sales Quantity Market Share by Type (2021-2032)

Figure 39. Global Plastic Sealed Rectifier Consumption Value Market Share by Type (2021-2032)

Figure 40. Global Plastic Sealed Rectifier Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. Global Plastic Sealed Rectifier Sales Quantity Market Share by Application (2021-2032)

Figure 42. Global Plastic Sealed Rectifier Revenue Market Share by Application (2021-2032)

Figure 43. Global Plastic Sealed Rectifier Average Price by Application (2021-2032) & (US\$/Unit)

Figure 44. North America Plastic Sealed Rectifier Sales Quantity Market Share by Type (2021-2032)

Figure 45. North America Plastic Sealed Rectifier Sales Quantity Market Share by Application (2021-2032)

Figure 46. North America Plastic Sealed Rectifier Sales Quantity Market Share by Country (2021-2032)

Figure 47. North America Plastic Sealed Rectifier Consumption Value Market Share by

Country (2021-2032)

Figure 48. United States Plastic Sealed Rectifier Consumption Value (2021-2032) & (USD Million)

Figure 49. Canada Plastic Sealed Rectifier Consumption Value (2021-2032) & (USD Million)

Figure 50. Mexico Plastic Sealed Rectifier Consumption Value (2021-2032) & (USD Million)

Figure 51. Europe Plastic Sealed Rectifier Sales Quantity Market Share by Type (2021-2032)

Figure 52. Europe Plastic Sealed Rectifier Sales Quantity Market Share by Application (2021-2032)

Figure 53. Europe Plastic Sealed Rectifier Sales Quantity Market Share by Country (2021-2032)

Figure 54. Europe Plastic Sealed Rectifier Consumption Value Market Share by Country (2021-2032)

Figure 55. Germany Plastic Sealed Rectifier Consumption Value (2021-2032) & (USD Million)

Figure 56. France Plastic Sealed Rectifier Consumption Value (2021-2032) & (USD Million)

Figure 57. United Kingdom Plastic Sealed Rectifier Consumption Value (2021-2032) & (USD Million)

Figure 58. Russia Plastic Sealed Rectifier Consumption Value (2021-2032) & (USD Million)

Figure 59. Italy Plastic Sealed Rectifier Consumption Value (2021-2032) & (USD Million)

Figure 60. Asia-Pacific Plastic Sealed Rectifier Sales Quantity Market Share by Type (2021-2032)

Figure 61. Asia-Pacific Plastic Sealed Rectifier Sales Quantity Market Share by Application (2021-2032)

Figure 62. Asia-Pacific Plastic Sealed Rectifier Sales Quantity Market Share by Region (2021-2032)

Figure 63. Asia-Pacific Plastic Sealed Rectifier Consumption Value Market Share by Region (2021-2032)

Figure 64. China Plastic Sealed Rectifier Consumption Value (2021-2032) & (USD Million)

Figure 65. Japan Plastic Sealed Rectifier Consumption Value (2021-2032) & (USD Million)

Figure 66. South Korea Plastic Sealed Rectifier Consumption Value (2021-2032) & (USD Million)

Figure 67. India Plastic Sealed Rectifier Consumption Value (2021-2032) & (USD Million)

Figure 68. Southeast Asia Plastic Sealed Rectifier Consumption Value (2021-2032) & (USD Million)

Figure 69. Australia Plastic Sealed Rectifier Consumption Value (2021-2032) & (USD Million)

Figure 70. South America Plastic Sealed Rectifier Sales Quantity Market Share by Type (2021-2032)

Figure 71. South America Plastic Sealed Rectifier Sales Quantity Market Share by Application (2021-2032)

Figure 72. South America Plastic Sealed Rectifier Sales Quantity Market Share by Country (2021-2032)

Figure 73. South America Plastic Sealed Rectifier Consumption Value Market Share by Country (2021-2032)

Figure 74. Brazil Plastic Sealed Rectifier Consumption Value (2021-2032) & (USD Million)

Figure 75. Argentina Plastic Sealed Rectifier Consumption Value (2021-2032) & (USD Million)

Figure 76. Middle East & Africa Plastic Sealed Rectifier Sales Quantity Market Share by Type (2021-2032)

Figure 77. Middle East & Africa Plastic Sealed Rectifier Sales Quantity Market Share by Application (2021-2032)

Figure 78. Middle East & Africa Plastic Sealed Rectifier Sales Quantity Market Share by Country (2021-2032)

Figure 79. Middle East & Africa Plastic Sealed Rectifier Consumption Value Market Share by Country (2021-2032)

Figure 80. Turkey Plastic Sealed Rectifier Consumption Value (2021-2032) & (USD Million)

Figure 81. Egypt Plastic Sealed Rectifier Consumption Value (2021-2032) & (USD Million)

Figure 82. Saudi Arabia Plastic Sealed Rectifier Consumption Value (2021-2032) & (USD Million)

Figure 83. South Africa Plastic Sealed Rectifier Consumption Value (2021-2032) & (USD Million)

Figure 84. Plastic Sealed Rectifier Market Drivers

Figure 85. Plastic Sealed Rectifier Market Restraints

Figure 86. Plastic Sealed Rectifier Market Trends

Figure 87. Porters Five Forces Analysis

Figure 88. Manufacturing Cost Structure Analysis of Plastic Sealed Rectifier in 2025

Figure 89. Manufacturing Process Analysis of Plastic Sealed Rectifier

Figure 90. Plastic Sealed Rectifier Industrial Chain

Figure 91. Sales Channel: Direct to End-User vs Distributors

Figure 92. Direct Channel Pros & Cons

Figure 93. Indirect Channel Pros & Cons

Figure 94. Methodology

Figure 95. Research Process and Data Source

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