

# Global PIN Diode Market by Size, by Type, by Application, by Region, History and Forecast 2019-2030

<https://marketpublishers.com/r/G3AF82CB0152EN.html>

Date: April 2024

Pages: 131

Price: US\$ 3,950.00 (Single User License)

ID: G3AF82CB0152EN

## Abstracts

A PIN diode is composed of an I-type region separating the P-type and N-type regions. Forward-biasing the diode adjusts the resistivity of the I-type region. Diodes take in power through an anode and release it into a positively-charged area of a semiconductor. A small intrinsic layer separates the positive area from a negative region. The power moves through the intrinsic into the negative and then out through a cathode back into the device.

PIN diodes are offered in discrete packages or integrated into IC processes. The benefit of using an integrated PIN diode for limiter design is the elimination of packaging parasitics, which degrade the receiver's noise performance. PIN diodes are built from an intrinsic (I) region of high resistivity in between a P-type and N-type semiconductor.

A typical diode has a very small intrinsic area. Usually, diodes are composed of two connection terminals connected by a semiconductor. Diodes take in power through an anode and release it into a positively-charged area of a semiconductor. A small intrinsic layer separates the positive area from a negative region. The power moves through the intrinsic into the negative and then out through a cathode back into the device.

According to APO Research, The global PIN Diode market is projected to grow from US\$ million in 2024 to US\$ million by 2030, at a Compound Annual Growth Rate (CAGR) of % during the forecast period.

Asia-Pacific is the largest PIN Diode market with about 53% market share. North America is follower, accounting for about 22% market share.

The key players are M/A-COM, Vishay, Infineon, AVAGO, NXP, ROHM, ON Semiconductor, Qorvo, Renesas, Albis etc. Top 3 companies occupied about 29% market share.

In terms of production side, this report researches the PIN Diode production, growth rate, market share by manufacturers and by region (region level and country level), from 2019 to 2024, and forecast to 2030.

In terms of consumption side, this report focuses on the sales of PIN Diode by region (region level and country level), by company, by type and by application. from 2019 to 2024 and forecast to 2030.

This report presents an overview of global market for PIN Diode, capacity, output, revenue and price. Analyses of the global market trends, with historic market revenue or sales data for 2019 - 2023, estimates for 2024, and projections of CAGR through 2030.

This report researches the key producers of PIN Diode, also provides the consumption of main regions and countries. Of the upcoming market potential for PIN Diode, and key regions or countries of focus to forecast this market into various segments and sub-segments. Country specific data and market value analysis for the U.S., Canada, Mexico, Brazil, China, Japan, South Korea, Southeast Asia, India, Germany, the U.K., Italy, Middle East, Africa, and Other Countries.

This report focuses on the PIN Diode sales, revenue, market share and industry ranking of main manufacturers, data from 2019 to 2024. Identification of the major stakeholders in the global PIN Diode market, and analysis of their competitive landscape and market positioning based on recent developments and segmental revenues. This report will help stakeholders to understand the competitive landscape and gain more insights and position their businesses and market strategies in a better way.

This report analyzes the segments data by type and by application, sales, revenue, and price, from 2019 to 2030. Evaluation and forecast the market size for PIN Diode sales, projected growth trends, production technology, application and end-user industry.

Descriptive company profiles of the major global players, including M/A-COM, Vishay, Infineon, AVAGO, NXP, ROHM, ON Semiconductor, Qorvo and Renesas, etc.

PIN Diode segment by Company

M/A-COM

Vishay

Infineon

AVAGO

NXP

ROHM

ON Semiconductor

Qorvo

Renesas

Albis

#### PIN Diode segment by Type

RF PIN Diode

PIN Photodiode

PIN Switch Diode

Others

#### PIN Diode segment by Application

RF Switch

Photodetector

High Voltage Rectifier

Attenuators

RF Limiters

Others

## PIN Diode segment by Region

North America

U.S.

Canada

Europe

Germany

France

U.K.

Italy

Russia

Asia-Pacific

China

Japan

South Korea

India

Australia

China Taiwan

Indonesia

Thailand

Malaysia

Latin America

Mexico

Brazil

Argentina

Middle East & Africa

Turkey

Saudi Arabia

UAE

### Study Objectives

1. To analyze and research the global status and future forecast, involving, production, value, consumption, growth rate (CAGR), market share, historical and forecast.
2. To present the key manufacturers, capacity, production, revenue, market share, and Recent Developments.
3. To split the breakdown data by regions, type, manufacturers, and Application.
4. To analyze the global and key regions market potential and advantage, opportunity and challenge, restraints, and risks.

5. To identify significant trends, drivers, influence factors in global and regions.
6. To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

### Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global PIN Diode market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.
2. This report will help stakeholders to understand the global industry status and trends of PIN Diode and provides them with information on key market drivers, restraints, challenges, and opportunities.
3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.
4. This report stays updated with novel technology integration, features, and the latest developments in the market.
5. This report helps stakeholders to gain insights into which regions to target globally.
6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of PIN Diode.
7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

### Chapter Outline

Chapter 1: Provides an overview of the PIN Diode market, including product definition, global market growth prospects, production value, capacity, and average price forecasts

(2019-2030).

Chapter 2: Analysis key trends, drivers, challenges, and opportunities within the global PIN Diode industry.

Chapter 3: Detailed analysis of PIN Diode market competition landscape. Including PIN Diode manufacturers' output value, output and average price from 2019 to 2024, as well as competition analysis indicators such as origin, product type, application, merger and acquisition information, etc.

Chapter 4: Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 5: Provides the analysis of various market segments by 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 6: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product production/output, value, price, gross margin, product introduction, recent development, etc.

Chapter 7: Production/Production Value of PIN Diode by region. It provides a quantitative analysis of the market size and development potential of each region in the next six years.

Chapter 8: Consumption of PIN Diode in regional level and country level. It 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 production of each country in the world.

Chapter 9: Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10: Concluding Insights of the report.

## Contents

### 1 MARKET OVERVIEW

- 1.1 Product Definition
- 1.2 Global Market Growth Prospects
  - 1.2.1 Global PIN Diode Production Value Estimates and Forecasts (2019-2030)
  - 1.2.2 Global PIN Diode Production Capacity Estimates and Forecasts (2019-2030)
  - 1.2.3 Global PIN Diode Production Estimates and Forecasts (2019-2030)
  - 1.2.4 Global PIN Diode Market Average Price (2019-2030)
- 1.3 Assumptions and Limitations
- 1.4 Study Goals and Objectives

### 2 GLOBAL PIN DIODE MARKET DYNAMICS

- 2.1 PIN Diode Industry Trends
- 2.2 PIN Diode Industry Drivers
- 2.3 PIN Diode Industry Opportunities and Challenges
- 2.4 PIN Diode Industry Restraints

### 3 PIN DIODE MARKET BY MANUFACTURERS

- 3.1 Global PIN Diode Production Value by Manufacturers (2019-2024)
- 3.2 Global PIN Diode Production by Manufacturers (2019-2024)
- 3.3 Global PIN Diode Average Price by Manufacturers (2019-2024)
- 3.4 Global PIN Diode Industry Manufacturers Ranking, 2022 VS 2023 VS 2024
- 3.5 Global PIN Diode Key Manufacturers Manufacturing Sites & Headquarters
- 3.6 Global PIN Diode Manufacturers, Product Type & Application
- 3.7 Global PIN Diode Manufacturers Commercialization Time
- 3.8 Market Competitive Analysis
  - 3.8.1 Global PIN Diode Market CR5 and HHI
  - 3.8.2 Global Top 5 and 10 PIN Diode Players Market Share by Production Value in 2023
  - 3.8.3 2023 PIN Diode Tier 1, Tier 2, and Tier

### 4 PIN DIODE MARKET BY TYPE

- 4.1 PIN Diode Type Introduction
  - 4.1.1 RF PIN Diode



- 4.1.2 PIN Photodiode
- 4.1.3 PIN Switch Diode
- 4.1.4 Others
- 4.2 Global PIN Diode Production by Type
  - 4.2.1 Global PIN Diode Production by Type (2019 VS 2023 VS 2030)
  - 4.2.2 Global PIN Diode Production by Type (2019-2030)
  - 4.2.3 Global PIN Diode Production Market Share by Type (2019-2030)
- 4.3 Global PIN Diode Production Value by Type
  - 4.3.1 Global PIN Diode Production Value by Type (2019 VS 2023 VS 2030)
  - 4.3.2 Global PIN Diode Production Value by Type (2019-2030)
  - 4.3.3 Global PIN Diode Production Value Market Share by Type (2019-2030)

## **5 PIN DIODE MARKET BY APPLICATION**

- 5.1 PIN Diode Application Introduction
  - 5.1.1 RF Switch
  - 5.1.2 Photodetector
  - 5.1.3 High Voltage Rectifier
  - 5.1.4 Attenuators
  - 5.1.5 RF Limiters
  - 5.1.6 Others
- 5.2 Global PIN Diode Production by Application
  - 5.2.1 Global PIN Diode Production by Application (2019 VS 2023 VS 2030)
  - 5.2.2 Global PIN Diode Production by Application (2019-2030)
  - 5.2.3 Global PIN Diode Production Market Share by Application (2019-2030)
- 5.3 Global PIN Diode Production Value by Application
  - 5.3.1 Global PIN Diode Production Value by Application (2019 VS 2023 VS 2030)
  - 5.3.2 Global PIN Diode Production Value by Application (2019-2030)
  - 5.3.3 Global PIN Diode Production Value Market Share by Application (2019-2030)

## **6 COMPANY PROFILES**

- 6.1 M/A-COM
  - 6.1.1 M/A-COM Company Information
  - 6.1.2 M/A-COM Business Overview
  - 6.1.3 M/A-COM PIN Diode Production, Value and Gross Margin (2019-2024)
  - 6.1.4 M/A-COM PIN Diode Product Portfolio
  - 6.1.5 M/A-COM Recent Developments
- 6.2 Vishay

- 6.2.1 Vishay Comapny Information
- 6.2.2 Vishay Business Overview
- 6.2.3 Vishay PIN Diode Production, Value and Gross Margin (2019-2024)
- 6.2.4 Vishay PIN Diode Product Portfolio
- 6.2.5 Vishay Recent Developments
- 6.3 Infineon
  - 6.3.1 Infineon Comapny Information
  - 6.3.2 Infineon Business Overview
  - 6.3.3 Infineon PIN Diode Production, Value and Gross Margin (2019-2024)
  - 6.3.4 Infineon PIN Diode Product Portfolio
  - 6.3.5 Infineon Recent Developments
- 6.4 AVAGO
  - 6.4.1 AVAGO Comapny Information
  - 6.4.2 AVAGO Business Overview
  - 6.4.3 AVAGO PIN Diode Production, Value and Gross Margin (2019-2024)
  - 6.4.4 AVAGO PIN Diode Product Portfolio
  - 6.4.5 AVAGO Recent Developments
- 6.5 NXP
  - 6.5.1 NXP Comapny Information
  - 6.5.2 NXP Business Overview
  - 6.5.3 NXP PIN Diode Production, Value and Gross Margin (2019-2024)
  - 6.5.4 NXP PIN Diode Product Portfolio
  - 6.5.5 NXP Recent Developments
- 6.6 ROHM
  - 6.6.1 ROHM Comapny Information
  - 6.6.2 ROHM Business Overview
  - 6.6.3 ROHM PIN Diode Production, Value and Gross Margin (2019-2024)
  - 6.6.4 ROHM PIN Diode Product Portfolio
  - 6.6.5 ROHM Recent Developments
- 6.7 ON Semiconductor
  - 6.7.1 ON Semiconductor Comapny Information
  - 6.7.2 ON Semiconductor Business Overview
  - 6.7.3 ON Semiconductor PIN Diode Production, Value and Gross Margin (2019-2024)
  - 6.7.4 ON Semiconductor PIN Diode Product Portfolio
  - 6.7.5 ON Semiconductor Recent Developments
- 6.8 Qorvo
  - 6.8.1 Qorvo Comapny Information
  - 6.8.2 Qorvo Business Overview
  - 6.8.3 Qorvo PIN Diode Production, Value and Gross Margin (2019-2024)

- 6.8.4 Qorvo PIN Diode Product Portfolio
- 6.8.5 Qorvo Recent Developments
- 6.9 Renesas
  - 6.9.1 Renesas Company Information
  - 6.9.2 Renesas Business Overview
  - 6.9.3 Renesas PIN Diode Production, Value and Gross Margin (2019-2024)
  - 6.9.4 Renesas PIN Diode Product Portfolio
  - 6.9.5 Renesas Recent Developments
- 6.10 Albis
  - 6.10.1 Albis Company Information
  - 6.10.2 Albis Business Overview
  - 6.10.3 Albis PIN Diode Production, Value and Gross Margin (2019-2024)
  - 6.10.4 Albis PIN Diode Product Portfolio
  - 6.10.5 Albis Recent Developments

## **7 GLOBAL PIN DIODE PRODUCTION BY REGION**

- 7.1 Global PIN Diode Production by Region: 2019 VS 2023 VS 2030
- 7.2 Global PIN Diode Production by Region (2019-2030)
  - 7.2.1 Global PIN Diode Production by Region: 2019-2024
  - 7.2.2 Global PIN Diode Production by Region (2025-2030)
- 7.3 Global PIN Diode Production by Region: 2019 VS 2023 VS 2030
- 7.4 Global PIN Diode Production Value by Region (2019-2030)
  - 7.4.1 Global PIN Diode Production Value by Region: 2019-2024
  - 7.4.2 Global PIN Diode Production Value by Region (2025-2030)
- 7.5 Global PIN Diode Market Price Analysis by Region (2019-2024)
- 7.6 Regional Production Value Trends (2019-2030)
  - 7.6.1 North America PIN Diode Production Value (2019-2030)
  - 7.6.2 Europe PIN Diode Production Value (2019-2030)
  - 7.6.3 Asia-Pacific PIN Diode Production Value (2019-2030)
  - 7.6.4 Latin America PIN Diode Production Value (2019-2030)
  - 7.6.5 Middle East & Africa PIN Diode Production Value (2019-2030)

## **8 GLOBAL PIN DIODE CONSUMPTION BY REGION**

- 8.1 Global PIN Diode Consumption by Region: 2019 VS 2023 VS 2030
- 8.2 Global PIN Diode Consumption by Region (2019-2030)
  - 8.2.1 Global PIN Diode Consumption by Region (2019-2024)
  - 8.2.2 Global PIN Diode Consumption by Region (2025-2030)

### 8.3 North America

8.3.1 North America PIN Diode Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

8.3.2 North America PIN Diode Consumption by Country (2019-2030)

8.3.3 U.S.

8.3.4 Canada

### 8.4 Europe

8.4.1 Europe PIN Diode Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

8.4.2 Europe PIN Diode Consumption by Country (2019-2030)

8.4.3 Germany

8.4.4 France

8.4.5 U.K.

8.4.6 Italy

8.4.7 Netherlands

### 8.5 Asia Pacific

8.5.1 Asia Pacific PIN Diode Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

8.5.2 Asia Pacific PIN Diode Consumption by Country (2019-2030)

8.5.3 China

8.5.4 Japan

8.5.5 South Korea

8.5.6 Southeast Asia

8.5.7 India

8.5.8 Australia

### 8.6 LAMEA

8.6.1 LAMEA PIN Diode Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

8.6.2 LAMEA PIN Diode Consumption by Country (2019-2030)

8.6.3 Mexico

8.6.4 Brazil

8.6.5 Turkey

8.6.6 GCC Countries

## 9 VALUE CHAIN AND SALES CHANNELS ANALYSIS

### 9.1 PIN Diode Value Chain Analysis

9.1.1 PIN Diode Key Raw Materials

9.1.2 Raw Materials Key Suppliers

- 9.1.3 Manufacturing Cost Structure
- 9.1.4 PIN Diode Production Mode & Process
- 9.2 PIN Diode Sales Channels Analysis
  - 9.2.1 Direct Comparison with Distribution Share
  - 9.2.2 PIN Diode Distributors
  - 9.2.3 PIN Diode Customers

## **10 CONCLUDING INSIGHTS**

## **11 APPENDIX**

- 11.1 Reasons for Doing This Study
- 11.2 Research Methodology
- 11.3 Research Process
- 11.4 Authors List of This Report
- 11.5 Data Source
  - 11.5.1 Secondary Sources
  - 11.5.2 Primary Sources
- 11.6 Disclaimer

## I would like to order

Product name: Global PIN Diode Market by Size, by Type, by Application, by Region, History and Forecast 2019-2030

Product link: <https://marketpublishers.com/r/G3AF82CB0152EN.html>

Price: US\$ 3,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G3AF82CB0152EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

