

# Global Si PIN Photodiode Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Si PIN Photodiode market size is expected to reach \$ 463 million by 2032, rising at a market growth of 5.9% CAGR during the forecast period (2026-2032).

Si PIN photodiodes are silicon-based photodetectors built on a P-I-N junction structure that convert incident light into an electrical current approximately proportional to optical power. The product category is characterized by high sensitivity, low dark current, fast response, and good linearity, with operating wavelengths mainly spanning the visible to near-infrared range. Common package formats include surface-mount devices, leaded packages, TO-can packages, and array configurations, allowing the technology to serve both high-volume standard detection tasks and higher-end requirements such as high-speed sensing, automotive-grade reliability, and radiation detection. In commercial use, silicon PIN photodiodes are widely deployed in industrial automation, optical encoders, position sensing, medical and digital diagnostic equipment, X-ray and radiation detection, laser rangefinding, automotive LiDAR, high-speed optical measurement, and selected short-reach optical communication applications.

In 2025, global Si PIN Photodiode sales volume reached approximately 180?220 Million Pcs. Prices for mainstream standardized products generally ranged from 0.35 to 1.50 USD/Pcs, while higher-specification devices used in high-speed, precision-packaged, medical, industrial, and automotive applications typically ranged from 7.50 to 18.00 USD/Pcs.

From a global industry perspective, Si PIN photodiodes remain one of the most commercially established and broadly deployed device families in optoelectronic detection. Their strength does not lie in serving only extreme-performance niches, but in combining mature manufacturing processes, favorable cost efficiency, balanced

sensitivity and response speed, and wide applicability across industrial, automotive, medical, consumer, and scientific instrumentation markets. The current growth profile is gradually shifting away from purely traditional infrared reception and basic sensing toward higher-value applications such as automotive LiDAR, CT and digital diagnostic equipment, industrial inspection, vital-sign monitoring, and high-speed optical measurement. As suppliers continue to improve automotive-grade reliability, package miniaturization, low dark current, and bandwidth performance, the value mix is moving incrementally toward more specialized and higher-specification products.

That said, the market is not free of structural pressure. Standardized products are increasingly transparent in price, and a meaningful portion of low- to mid-range devices already competes in a margin-sensitive environment. At the same time, medical-imaging-related demand remains exposed to capital spending cycles, regional procurement timing, and price competition in key markets such as China. In selected high-sensitivity, longer-wavelength, or ultra-low-light applications, competing detector technologies such as InGaAs photodiodes, APDs, and SiPMs also constrain the Si PIN upside. Over the next several years, downstream demand is likely to remain bifurcated: high-volume standard devices will continue serving industrial and consumer sensing needs, while automotive, medical, and premium instrumentation customers will drive demand for faster, more customized, automotive-grade, and higher-reliability devices. This dual-track structure should support steady, rather than explosive, market expansion and preserve Si PIN photodiodes as a resilient volume platform within the broader photodetector landscape.

This report studies the global Si PIN Photodiode production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Si PIN Photodiode and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Si PIN Photodiode that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Si PIN Photodiode total production and demand, 2021-2032, (K Pcs)

Global Si PIN Photodiode total production value, 2021-2032, (USD Million)

Global Si PIN Photodiode production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global Si PIN Photodiode consumption by region & country, CAGR, 2021-2032 & (K

Pcs)

U.S. VS China: Si PIN Photodiode domestic production, consumption, key domestic manufacturers and share

Global Si PIN Photodiode production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global Si PIN Photodiode production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global Si PIN Photodiode production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Si PIN Photodiode market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Hamamatsu Photonics K.K., Vishay Intertechnology, Inc., Excelitas Technologies Corp., onsemi, ams-OSRAM AG, OSI Optoelectronics, TE Connectivity, Dexerials Corporation, LASER COMPONENTS Detector Group, KODENSHI CORP., etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Si PIN Photodiode market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pcs) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Si PIN Photodiode Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Si PIN Photodiode Market, Segmentation by Type:

Ceramic Package

Metal Can Package

Plastic Package

Others

#### Global Si PIN Photodiode Market, Segmentation by Active Area:

Small Active Area

Medium Active Area

Large Active Area

#### Global Si PIN Photodiode Market, Segmentation by Response Speed:

High Speed

Medium Speed

Low Speed

### Global Si PIN Photodiode Market, Segmentation by Wavelength Sensitivity:

Visible Band

Near Infrared Band

Others

### Global Si PIN Photodiode Market, Segmentation by Application:

Optical Communication

Industrial Detection

Consumer Electronics

Others

### Companies Profiled:

Hamamatsu Photonics K.K.

Vishay Intertechnology, Inc.

Excelitas Technologies Corp.

onsemi

ams-OSRAM AG

OSI Optoelectronics

TE Connectivity

Dexerials Corporation

LASER COMPONENTS Detector Group

KODENSHI CORP.

Everlight Electronics Co., Ltd.

Ushio Inc.

Beijing Lightsensing Technologies Ltd

**Key Questions Answered:**

1. How big is the global Si PIN Photodiode market?
2. What is the demand of the global Si PIN Photodiode market?
3. What is the year over year growth of the global Si PIN Photodiode market?
4. What is the production and production value of the global Si PIN Photodiode market?
5. Who are the key producers in the global Si PIN Photodiode market?
6. What are the growth factors driving the market demand?

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