

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

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Abstracts

The global Silicon PIN Photodiode market size is expected to reach \$ 459 million by 2032, rising at a market growth of 5.5% CAGR during the forecast period (2026-2032).

Silicon PIN photodiodes are semiconductor photodetectors built on a silicon-based P I N structure that converts incoming optical signals into electrical signals with high efficiency. Their relatively wide intrinsic region enables a large depletion layer under reverse bias, which supports lower capacitance, faster response, stronger linearity, and improved weak-light detection performance. Compared with ordinary photosensitive devices, silicon PIN photodiodes offer a compelling combination of mature process technology, controllable cost, high reliability, and flexible packaging options across the visible to near infrared range. They are widely used in industrial inspection, analytical instrumentation, medical equipment, optical communication receivers, consumer electronics, laser monitoring, and automation systems. In industrial terms, Japan, the United States, China, and Taiwan China remain key manufacturing and application hubs, while the market itself is served by specialist optoelectronic device makers, diversified sensing companies, and semiconductor suppliers. Official product materials from Hamamatsu and Excelitas highlight the core strengths of silicon PIN photodiodes, including high sensitivity, low dark current, fast response, and a typical detection range of roughly 400 nm to 1100 nm, making them well suited to high-speed and high-reliability applications.

In 2025, global silicon PIN photodiode sales reached approximately 200.60 million pcs, with an average price of about USD 1.47 per pcs.

The appeal of the silicon PIN photodiodes market lies in the fact that it sits at the intersection of mature technology and emerging demand. On one side, the silicon

materials platform is highly established, giving the category structural advantages in cost, supply chain depth, and scalable manufacturing reliability. On the other, the upgrading of industrial automation, medical diagnostics, life science instrumentation, semiconductor equipment, intelligent vehicles, and high-speed data links is steadily raising the performance threshold for optical detection. Hamamatsu's latest official materials indicate that industrial demand, especially semiconductor-related equipment demand, is expected to continue growing. Excelitas positions its photonics platform across life sciences, advanced industrial, and next-generation semiconductor markets. TE Connectivity's annual report likewise shows that its connectivity and sensing solutions are serving automated factories, energy networks, and AI-enabling data centers. This means silicon PIN photodiodes are no longer just traditional electronic parts. They are becoming more deeply embedded in the sensing front end of advanced equipment and intelligent systems.

From a competition and risk perspective, the market opportunity is increasingly tied to the rising share of mid-range and high-end applications and to stronger customer qualification barriers, while the main challenges remain price stratification, product commoditization in standard segments, and the continued evolution of alternative technologies. ams OSRAM states in its latest annual report that digital photonics is expanding into broader application spaces including smart robots, automotive systems, and AI data centers. onsemi also continues to place automotive, industrial, and AI data center markets at the center of its strategy. For leading manufacturers, the real competitive battleground will therefore not be volume expansion alone, but the ability to build platform-level strength across spectral response, packaging, miniaturization, speed, stability, and system compatibility. As a result, the market is likely to become more differentiated: standard products will continue to serve volume demand, while high-performance, high-reliability, and customized products will increasingly drive margin quality and value density. Within the global optoelectronics supply chain, silicon PIN photodiodes remain far from obsolete. Instead, they are positioned to unlock renewed commercial value through the continuing upgrade of advanced manufacturing and intelligent sensing systems.

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

This report is a detailed and comprehensive analysis of the world market for Silicon 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 Silicon PIN Photodiode that

contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

Global Silicon PIN Photodiode consumption by region & country, CAGR, 2021-2032 & (K Pcs)

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

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

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

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

This report profiles key players in the global Silicon 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 Silicon 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 Silicon PIN Photodiode Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Silicon PIN Photodiode Market, Segmentation by Type:

Ceramic Package

Metal Can Package

Plastic Package

Others

Global Silicon PIN Photodiode Market, Segmentation by Active Area:

Small Active Area

Medium Active Area

Large Active Area

Global Silicon PIN Photodiode Market, Segmentation by Response Speed:

High Speed

Medium Speed

Low Speed

Global Silicon PIN Photodiode Market, Segmentation by Wavelength Sensitivity:

Visible Band

Near Infrared Band

Others

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

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