

Global APD Avalanche Photodiode Market Data Survey Report 2025

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Abstracts

Summary

APD Avalanche Photodiode (APD) is a highly sensitive semiconductor electronic device that exploits the photoelectric effect to convert light to electricity. APDs can be thought of as photodetectors that provide a built-in first stage of gain through avalanche multiplication. From a functional standpoint, they can be regarded as the semiconductor analog to photomultipliers. By applying a high reverse bias voltage, APDs show an internal current gain effect due to impact ionization. However, some silicon APDs employ alternative doping and beveling techniques compared to traditional APDs that allow greater voltage to be applied before breakdown is reached and hence a greater operating gain. In general, the higher the reverse voltage the higher the gain.

The global APD Avalanche Photodiode market will reach xxx Million USD in 2017 with CAGR xx% from 2018-2025. The main contents of the report including:

Global market size and forecast

Regional market size, production data and export & import

Key manufacturers (manufacturing sites, capacity and production, product specifications etc.)

Average market price by SUK

Major applications

Key manufacturers are included based on manufacturing sites, capacity and production, product specifications etc.:

First-sensor

Hamamatsu

Kyosemi Corporation

LUNA

Excelitas

Osi optoelectronics

Edmund Optics

GCS

SiFotonics

Major applications as follows:

Industrial

Medical

Mobility

Others

Regional market size, production data and export & import:

Asia-Pacific

North America

Europe

South America

Middle East & Africa

Contents

1 GLOBAL MARKET OVERVIEW

- 1.1 Scope of Statistics
 - 1.1.1 Scope of Products
 - 1.1.2 Scope of Manufacturers
 - 1.1.3 Scope of Application
 - 1.1.4 Scope of Regions/Countries
- 1.2 Global Market Size

2 REGIONAL MARKET

- 2.1 Regional Production
- 2.2 Regional Demand
- 2.3 Regional Trade

3 KEY MANUFACTURERS

- 3.1 First-sensor
 - 3.1.2 Company Information
 - 3.1.2 Product Specifications
 - 3.1.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- 3.2 Hamamatsu
 - 3.2.1 Company Information
 - 3.2.2 Product Specifications
 - 3.2.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- 3.3 Kyosemi Corporation
 - 3.3.1 Company Information
 - 3.3.2 Product Specifications
 - 3.3.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- 3.4 LUNA
 - 3.4.1 Company Information
 - 3.4.2 Product Specifications
 - 3.4.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- 3.5 Excelitas
 - 3.5.1 Company Information
 - 3.5.2 Product Specifications
 - 3.5.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

3.6 Osi optoelectronics

3.6.1 Company Information

3.6.2 Product Specifications

3.6.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

3.7 Edmund Optics

3.7.1 Company Information

3.7.2 Product Specifications

3.7.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

3.8 GCS

3.8.1 Company Information

3.8.2 Product Specifications

3.8.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

3.9 SiFotonics

3.9.1 Company Information

3.9.2 Product Specifications

3.9.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

4 MAJOR APPLICATION

4.1 Industrial

4.1.1 Overview

4.1.2 Industrial Market Size and Forecast

4.2 Medical

4.2.1 Overview

4.2.2 Medical Market Size and Forecast

4.3 Mobility

4.3.1 Overview

4.3.2 Mobility Market Size and Forecast

4.4 Others

4.4.1 Overview

4.4.2 Others Market Size and Forecast

5 MARKET PRICE

5.1 Overview

5.2 Price by SUK

6 CONCLUSION

List Of Tables

LIST OF TABLES

TAB REGIONAL PRODUCTION 2011-2017 (VALUE)

- Tab Regional Production 2011-2017 (Volume)
- Tab Regional Demand and CAGR 2011-2017 (Value)
- Tab Regional Demand and CAGR 2011-2017 (Volume)
- Tab Regional Demand Forecast and CAGR 2018-2025 (Value)
- Tab Regional Demand Forecast and CAGR 2018-2025 (Volume)
- Tab Regional Export 2011-2017 (Value)
- Tab Regional Export 2011-2017 (Volume)
- Tab Regional Import 2011-2017 (Value)
- Tab Regional Import 2011-2017 (Volume)
- Tab Sales Revenue, Volume, Price, Cost and Margin of First-sensor
- Tab Sales Revenue, Volume, Price, Cost and Margin of Hamamatsu
- Tab Sales Revenue, Volume, Price, Cost and Margin of Kyosemi Corporation
- Tab Sales Revenue, Volume, Price, Cost and Margin of LUNA
- Tab Sales Revenue, Volume, Price, Cost and Margin of Excelitas
- Tab Sales Revenue, Volume, Price, Cost and Margin of Osi optoelectronics
- Tab Sales Revenue, Volume, Price, Cost and Margin of Edmund Optics
- Tab Sales Revenue, Volume, Price, Cost and Margin of GCS
- Tab Sales Revenue, Volume, Price, Cost and Margin of SiFotonics
- Tab Market Price by Region
- Tab Market Price by Manufacturers
- Tab Market Price by Application
- Tab Price by SUK (Popular Goods on the Market)

List Of Figures

LIST OF FIGURES

Fig Global APD Avalanche Photodiode Market Size and CAGR 2011-2017 (Value)

Fig Global APD Avalanche Photodiode Market Size and CAGR 2011-2017 (Volume)

Fig Global APD Avalanche Photodiode Market Forecast and CAGR 2018-2025 (Value)

Fig Global APD Avalanche Photodiode Market Forecast and CAGR 2018-2025
(Volume)

Fig Industrial Market Size and CAGR 2011-2017 (Value)

Fig Industrial Market Size and CAGR 2011-2017 (Volume)

Fig Industrial Market Forecast and CAGR 2018-2025 (Value)

Fig Industrial Market Forecast and CAGR 2018-2025 (Volume)

Fig Medical Market Size and CAGR 2011-2017 (Value)

Fig Medical Market Size and CAGR 2011-2017 (Volume)

Fig Medical Market Forecast and CAGR 2018-2025 (Value)

Fig Medical Market Forecast and CAGR 2018-2025 (Volume)

Fig Mobility Market Size and CAGR 2011-2017 (Value)

Fig Mobility Market Size and CAGR 2011-2017 (Volume)

Fig Mobility Market Forecast and CAGR 2018-2025 (Value)

Fig Mobility Market Forecast and CAGR 2018-2025 (Volume)

Fig Others Market Size and CAGR 2011-2017 (Value)

Fig Others Market Size and CAGR 2011-2017 (Volume)

Fig Others Market Forecast and CAGR 2018-2025 (Value)

Fig Others Market Forecast and CAGR 2018-2025 (Volume)

Fig Global Market Price 2011-2017

Fig Global Market Price 2018-2025

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