

Global and United States APD Avalanche Photodiode Market Research by Company, Type & Application 2013-2025

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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.

Market Segment as follows:

By Type

Silicon Materials

Germanium Materials

InGaAs Materials

Others

By Application

Industrial

Medical

Mobility

Others

By Company

First-sensor

Hamamatsu

Kyosemi Corporation

LUNA

Excelitas

Osi optoelectronics

Edmund Optics

GCS

SiFotonics

The main contents of the report including:

Section 1:

Product definition, type and application, global and United States market overview;

Section 2:

Global and United States Market competition by company;

Section 3:

Global and United States sales revenue, volume and price by type;

Section 4:

Global and United States sales revenue, volume and price by application;

Section 5:

United States export and import;

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Company information, business overview, sales data and product specifications;

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