

Global and China PIN Diode Market Research by Company, Type & Application 2013-2025

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Abstracts

SUMMARY

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. A PIN Diode works a little differently. The power enters the diode and transfers to the positive region normally, but then it hits an extremely large intrinsic area. This area acts like a dam to the power moving through the system. It fills with more and more power as the positive area keeps sending it over. When it finally fills to the point where it simply can't take anymore, it begins to push power into the negative zone.

Market Segment as follows:

By Type

RF PIN Diode

PIN Photodiode

PIN Switch Diode

Others

By Application

Switches

Attenuators

RF Limiters

High voltage rectifier

mobile communications

Photodetectors and photovoltaic cell

Others

By Company

M/A-COM

Vishay

Infineon

AVAGO

NXP

ROHM

ON Semiconductor

Qorvo

Renesas

Albis

Skyworks

Toshiba

Fairchild

COBHAM

Microsemi

LRC

LASER COMPONENTS

LITEC

Kexin

Micro Commercial

GeneSiC

Shike

The main contents of the report including:

Section 1:

Product definition, type and application, global and China market overview;

Section 2:

Global and China Market competition by company;

Section 3:

Global and China sales revenue, volume and price by type;

Section 4:

Global and China sales revenue, volume and price by application;

Section 5:

China export and import;

Section 6:

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

Section 7:

Industry chain and raw materials;

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SWOT and Porter's Five Forces;

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