

What is photodiode in electronics

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What is a Rectifier? A rectifier is an electronic device that converts Alternating current (AC) to Direct current (DC). The process of converting AC to DC is called rectification. A p-n junction diode is a primary component that is ...

What is a Varistor? A varistor is an electronic component that protects electrical circuits against overvoltage. Because its electrical resistance varies with applied voltage, it is commonly referred to as a voltage-dependent ...

What is an Active Component Active components are electronic component that deliver or supply power or produce energy in form of voltage or current . These components depends on the external power source to control ...

In the world of electronics, the bridge rectifier is a component that plays a role, in converting alternating current (AC) to direct current (DC). This article explores the concept of the bridge including how it's constructed how it ...

The diode voltage drop refers to the minimum forward voltage required for a diode to conduct current. When a diode is forward-biased (positive voltage applied to the anode and negative to ...

The 1N4148 diode is an essential component in modern electronics, particularly renowned for its applications in signal processing and switching circuits. With its fast switching speed, typically ...

Diode transistor logic (DTL) belongs to the digital logic family. This logic circuit has diodes at the input side and transistor at the output side and so the name diode transistor logic. It has more advantages than resistor ...

Photodiode: Current flow when exposed to light. Schottky Diode: Diode with low voltage drop. Tunnel Diode: Diode in which electric current decreases with increase in voltage. Varactor / Varicap Diode: Diode with ...

A full wave rectifier is a component, in electronics that converts alternating current (AC) into direct current (DC). Unlike a wave that only utilizes one half of the input cycle a full wave rectifier takes advantage of both the ...

Thyristors in Power Electronics are used as power semiconductor devices which are used as on/off switches in

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power control circuits. A power semiconductor device is a semiconductor device used as a switch or rectifier ...

A clipper in electronics is a circuit created to stop a signal from going over a specific reference voltage level. The remaining portion of the waveform that is applied is not distorted by a clipper. The clipping of a portion of a wave ...

The tunnel diode is also known as the "Esaki Diode". It was invented by "Leo Esaki" in 1957, and for this invention, he received Nobel in 1973. It exhibits negative resistance, negative resistance means current decreases ...

Snubber circuits for diodes works based on the principle of absorbing energy from voltage transients and limit the rate of change of voltage across the diode . In inductive loads, when a diode switch is turned off, it can ...

Cathode and Anode of a Diode In the context of a semiconductor diode, such as a typical silicon or germanium diode used in electronic circuits, the terms "cathode" and "anode" refer to the two terminals of the diode. Here's ...

Principles of Operation When a photodiode is exposed to light, photons with sufficient energy can excite electrons across the bandgap of the semiconductor material, creating free electron-hole ...

Let me tell you about the basic electronic components list with images. If without knowing the name and how they work, then we cannot use them to build electronic circuits. That includes resistors, capacitors, diodes, ...

Photodiode 3mm: Definition and Specifications A 3mm photodiode is a semiconductor device with a diameter of 3mm. It is designed to detect and convert light into an electrical signal. The ...

In electronic components, Active components are electronic devices that need an external power source to operate actively. They mainly manipulate, amplify, switch, or control the flow of electric current or voltage in a circuit. ...

PIN photodiode is an EP1S30F780C6 photoelectric conversion device that can convert optical signals into electrical signals. It has the advantages of simple structure, high sensitivity, and ...

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