

## Light Emitting Diode Led A Revolutionary Development

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A light-emitting diode (LED) is a semiconductor light source that emits light when current flows through it. Electrons in the semiconductor recombine with electron holes, releasing energy in the form of photons.

### Light-emitting diode - Wikipedia

A light-emitting diode is a two-lead semiconductor light source. It wasn't until 1962 that Nick Holoniac came up with the idea of a light diode, and he was working for a general electric company. Led is a special type of diode with the same electrical characteristics as the P N junction diode.

### What Is Light Emitting Diode (LED) | Construction ...

Also see laser diode. A light-emitting diode (LED) is a semiconductor device that emits visible light when an electric current passes through it. The light is not particularly bright, but in most LEDs it is monochromatic, occurring at a single wavelength. The output from an LED can range from red (at a wavelength of approximately 700 nanometers) to blue-violet (about 400 nanometers).

### What is light-emitting diode (LED)? - Definition from ...

An LED or a Light Emitting Diode is semiconductor device that emits light due to Electroluminescence effect. An LED is basically a PN Junction Diode, which emits light when forward biased. Light Emitting Diodes are almost everywhere.

### LED - Light Emitting Diode: Basics, Types and Characteristics

Definition: LED is a PN junction diode, that emits light when a certain potential is provided to the diode. LED is the short form for L ight E mitting D iode and is a forward biased device. This means it operates only when a forward voltage is applied to it. It is a semiconductor device whose operating principle is electro-luminance.

### What is Light Emitting Diode (LED)? Definition ...

The bi-colour light emitting diodes are a type of LEDs similar to single color LEDs just with additional one more LED chip enclosed in the package. The bicolour LEDs may have either two or three leads for connecting; it depends on the method used. In general the two LED leads are connected in inverse parallel combination.

### Light Emitting Diode | LED Types, Colors and Applications

Light emitting diodes, commonly called LEDs, are real unsung heroes in the electronics world. They do many different jobs in all kinds of devices. They form numbers on digital clocks, transmit information from remote controls, light up watches and tell you when your appliances are turned on. Collected together, they can form images on a jumbo television screen or illuminate a traffic light.

### How Light Emitting Diodes Work | HowStuffWorks

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### Light Emitting Diodes for sale | eBay

Light emitting diode (LED) Light-emitting diodes (LEDs) and lamps produce light when a current flows through them in the forward direction. LEDs and lamps are often used for indicator lights in...

### LEDs and lamps - Resistors, lamps and diodes - GCSE ...

Like conventional PN junction diodes, light emitting diodes are current-dependent devices with its forward voltage drop V F, depending on the semiconductor compound (its light colour) and on the forward biased LED current. Most common LED's require a forward operating voltage of between approximately 1.2 to 3.6 volts with a forward current rating of about 10 to 30 mA, with 12 to 20 mA being the most common range.

### Light Emitting Diode or the LED Tutorial

Light Emitting Diodes (LEDs) are the most widely used semiconductor diodes among all the different types of semiconductor diodes available today. Light emitting diodes emit either visible light or invisible infrared light when forward biased. The LEDs which emit invisible infrared light are used for remote controls.

### Light Emitting Diode (LED) - Working, Construction and ...

What exactly is this LED thing everyone's talking about? LEDs (that's "ell-ee-dees") are a particular type of diode that convert electrical energy into light. In fact, LED stands for "Light Emitting Diode." (It does what it says on the tin!)

### Light-Emitting Diodes (LEDs) - learn.sparkfun.com

The Light emitting diode is a two-lead semiconductor light source. In 1962, Nick Holonyak has come up with an idea of light emitting diode, and he was working for the general electric company. The LED is a special type of diode and they have similar electrical characteristics of a PN junction diode.

### Light-emitting diodes Circuit, Working Principle and ...

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### LED - Light-Emitting Diode | Component-Shop

A Light Emitting Diode (LED) is a special type of PN junction diode. The light emitting diode is specially doped and made of a special type of semiconductor. This diode can emit light when it is in the forward biased state.

### Light Emitting Diode (LED): What is it & How Does it Work ...

A light-emitting diode (LED) is a semiconductor device that emits visible light when an electric current passes through it. The light is not particularly bright, but in most LEDs it is monochromatic, occurring at a single wavelength. The material used in the semiconducting element of an LED determines its colour.

### Lighting - LEDs (Light Emitting Diode) | Farnell

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