



tronic Components

about [electronic components](#) in our online tutorials: [resistors](#), [capacitors](#), [inductors](#), [transistors](#), [integrated circuit](#) . . . and even [vacuum tubes](#) / [vacuum valves](#). [Circuit design software](#)

There are many components that can be used in electronic and radio circuits. For each type there are variants and they enable them to be used in different ways.

Passive components

Find out electronics online with our tutorials and information covering all aspects of passive components: capacitors, inductors, crystals and many more.

Passive components like resistors, capacitors and many others may seem low-tech by the standards of other components, but their technologies have developed over the years to provide improved performance and reliability.

- Resistors
- Capacitors
- Inductors
- Crystal resonator & filter
- Diodes
- Transistors
- Resistor / LDR
- Thyristors
- Varactors
- Optoelectronics
- Crystals, xtals
- Optoisolators
- Optocouplers

Semiconductors

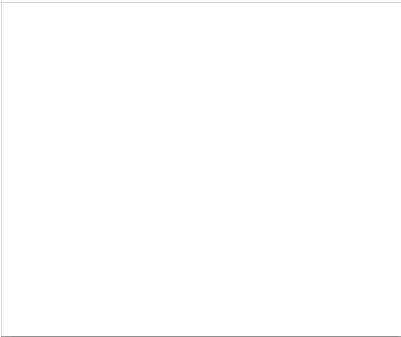
One type of electronic component is the semiconductor diode. Semiconductors diodes are particularly important electronic components because there are many different varieties which perform in different ways and they are used for very different purposes. [Radio equipment](#) [Circuit design software](#)

Diodes are designed specifically to vary their capacitance with a varying reverse bias, Zener and voltage divider diodes are used to provide a stable reference voltage, and of course some are used to only allow current to flow in one direction for rectifying signals, etc.

Of course there are very many more types of diode that are used for a host of different types of electronic circuit.

FOLLOW





14 JUNE 2025

Fact of the day: It was in this month in 1916 that W Schottky in Germany described the principle of the superhet radio as a powerful and selective amplifier. He never made the receiver to prove his idea and was beaten to this goal by Edwin Armstrong. Also on this day in 1923, Charles Jenkins, an inventor from Dayton, Ohio, who invented a mechanical television system called radiovision and claimed to have transmitted the earliest moving silhouette images.

Quote: *Science can purify religion from error and superstition. Religion can purify science from idolatry and false absolutes.* Pope John Paul II (Karol Wojtyla)

Point to ponder: A photon that takes eight minutes to travel from the Sun to Earth took 100,000 years to get from the centre to the surface of the Sun.

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the right diode is essential to ensure that the electronic circuit operates in the manner expected.

- types
- ction diode
- diode
- T microwave diode
- diode
- mitting diode or LED
- diode
- ode
- ky barrier diode
- ecovery diode
- cell / photovoltaic diode
- I diode
- or or varicap diode
- diode

ve devices: transistor, FET, Vacuum tube / valve,
stor . .

it design software

passive electronic components form a huge sector of the electronic components industry, active devices
ie higher value area. These electronic components enable much of the functionality of the circuits to be

- transistor works
- ransistor
- ield Effect Transistor
- ET
- ET
- nsulated Gate Bipolar Transistor
- i carbide MOSFET
- ction transistors, UJTs

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QUIZZLY

Take a quick quiz about this page:

What are some examples of passive components?

- ☐ Resistors, capacitors, and inductors
- ☐ Transistors, FETs, and vacuum tubes
- ☐ Batteries, logic families, and ASICs
- ☐ Diodes, crystals, and voltage reference diodes

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- ionic valve / vacuum tube
- s a thyristor
- s a triac
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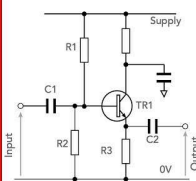
What is a Spectrum Analyzer?

- analyzer types



What is a Spectrum Analyzer?

STOP Emitter Follower Stages From Oscillating



STOP Emitter Follower Circuits From Oscillating

conductor memory

ductor memory is an important class of electronic component. Semiconductor memory is used in vast for computer and digital storage of all forms. This type of electronic component is key for the computer

- ry types & technologies
- I
- OM

- 1, magnetoresistive RAM
- change memory, PRAM
- M
- , static RAM

ellaneous

» many other differnet types of electronic component that are used, and these components enable many ciuits to be realised. Electronic components like connectors, logic families, ASICs, FPGAs and many more complexity, are all key to the electronics industry.

- s Surface Mount Technology
- C families
- immable logic devices
- gue to Digital Converter, ADC
- to analogue converter, DAC
- basics

- ectors
- ax cable connectors

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ary technology

of all sorts are used in all forms of electrical and electronic equipment. From children's toys to smartphones, and gadgets right up to electric vehicles.

y technology primer

ie manganese dioxide (primary cells)

ir

arbon

Cadmium, NiCd

Metal Hydride NiMH

n-ion, Li-ion

acid

: components are at the core of electronics technology. There is a huge variety of different components that ible with a variety of different functions. Everything from passive components like resistors, capacitors and rough devices like diodes, and onto other electronic components like transistors, FETs and even the old echnology. Integrated circuits are now commonplace and although more costly, they provide huge levels of ity.

Circuit design software

are associated with electronic components is the selection of the right supplier. Whilst for hobbyists and duction runs it is often quite acceptable to obtain components from many suppliers, for production runs, component distributors are normally used.

ponent selection

› select the right components

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