

Find the word

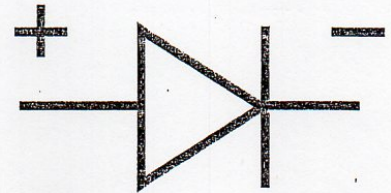
Find words in the preceding page that match the following descriptions.

Definition	Word found in the text
a. to cause harm (harm has been caused)	
b. opposition to the flow of electric current	
c. to bring or transport	
d. situated outside of something	
e. the place where two or more things are connected	
f. the behaviour of something when functioning	

Diode Symbol

A diode is a two-terminal device. The basic symbol for a diode is an arrow with a line across the end of the arrow. The arrow indicates the direction in which current will flow.

Current will flow from an anode (+) to a cathode (-). The cathode is normally marked in some way – with a dot, a band or similar marking – to ensure the correct orientation when the diode is inserted into a circuit.



CAPACITORS

A capacitor (previously known as a condenser) is a passive electronic component that can store energy – electric charge – in the electric field between a pair of conductors (called “plates”).

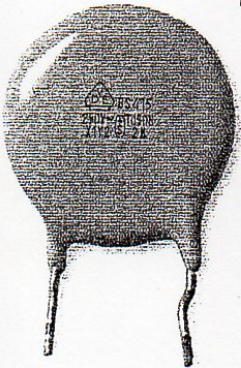
These plates are separated by an insulator, known as dielectric, that keeps current from flowing between the plates. As an electrical charge builds up on one plate, an equal and opposite charge will build up on the other plate.

We can envisage a capacitor as operating in the same way as the battery in a digital camera that builds up the required energy for a flashbulb.

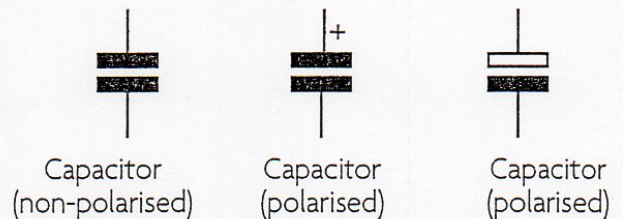
Capacitors can be used to smooth varying DC supplies (by acting as a reservoir of charge). They can also be used in filter circuits where the capacitor will pass AC but block DC signals.

There are many types of capacitors but they are usually classified into two groups: polarised and unpolarised. A capacitor can be compared to a battery, therefore a polarised capacitor has only one way

to be inserted into a circuit, positive to positive (+ to +) and negative to negative (- to -), whereas an unpolarised capacitor can be installed either way (+ to - and - to +) and still function correctly.

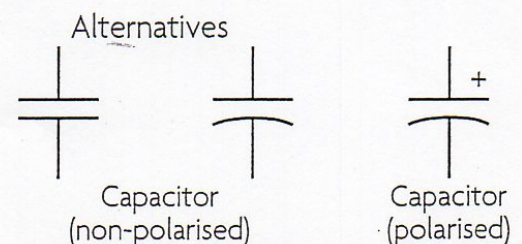


UK Capacity Symbols



Alternatives

US Capacity Symbols



RESISTORS

Resistors (R) are among the most fundamental and common of the components used in electronics. They can be defined by their main purpose, their ability to resist the flow of electricity. A resistor, therefore, is a device that is used to control or limit the flow of current.