

# What is fuse and how it's Works

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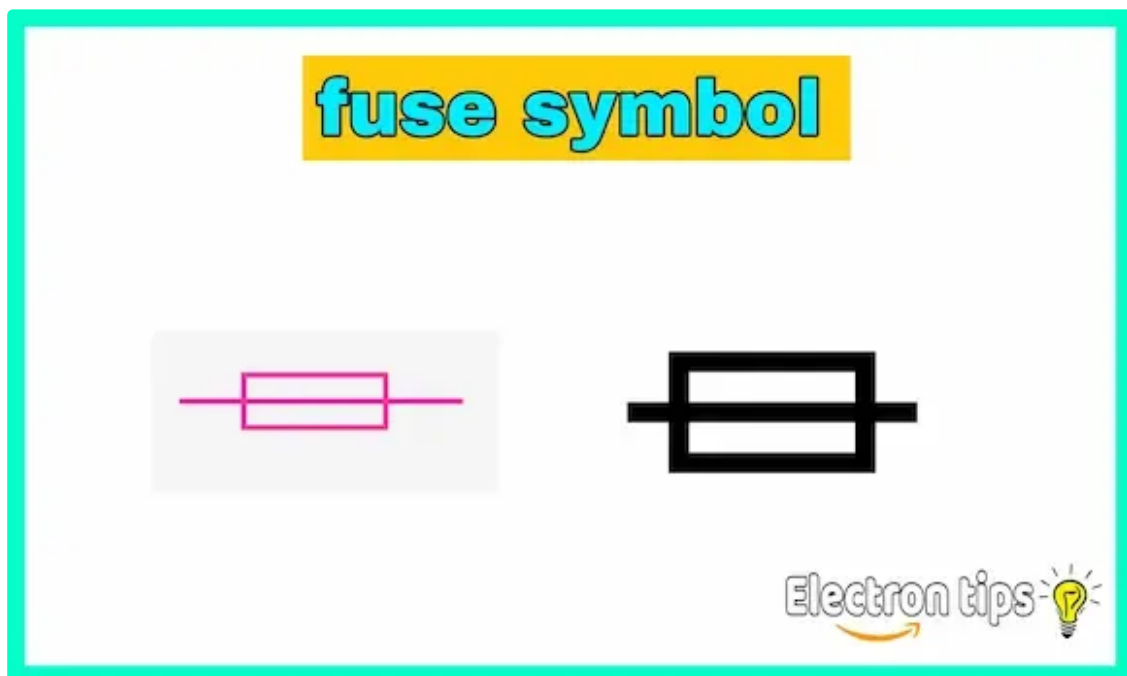
Fuse is one of the most common electrical elements used in electrical protection systems, thanks to its ease of installation and the simplicity of its change during combustion, and it is found in various different types, so what is the Fuse element, and what are its basic components? In this educational article, we will find out the answers to these questions about the fuse.

## Definition of fuse :

The fuse is a small electrical device whose main role is to protect the elements and electrical circuits , It consists of a thin wire or a thermal element, and it is linked in chain with the electrical circuit to be protected. The fuse is selected based on the requirements and type of electrical circuit and protected components.

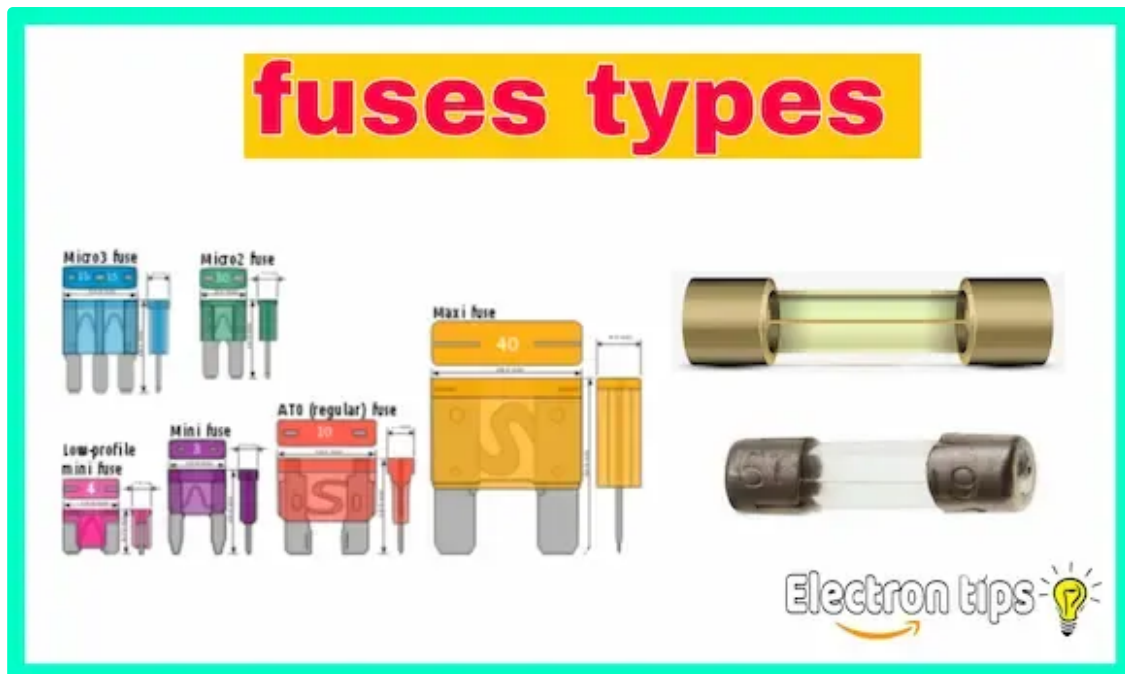
## Fuse symbol :

This is the symbol of fuse element:



Fuse symbol

## Fuses types :



Fuses types

## fuse working principle :

The fuse is manifested in the protection of electrical networks and circuits (circles, electronic elements, household electrical appliances) It leads to the disconnection of electricity from the circuit, and thus it protects the electrical elements from combustion and damage due to the excessive electrical current.



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## Fuse uses :

The fuse is used in many electrical applications, especially: household electrical circuits (protection of household electrical appliances), power plants.

The disadvantage of the fuse is that you need to replace it every time the power is cut off because it becomes completely damaged when the power is cut off, but its price is very cheap and you can buy it at an affordable price.

## Conclusion :

The fuse has many practical uses in the field of protection against current and voltage, and it is found in many electrical electronic devices. If you have any questions you can put it in the comments section or on our Facebook page, electrical Engineering Tips.