

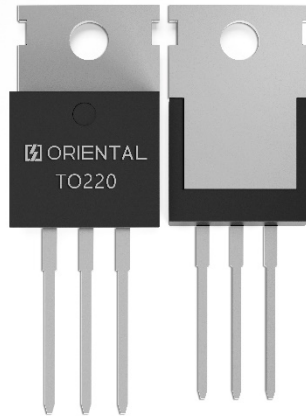


## TO220 Package Type

1、**结构特点:** TO-220 封装通常有三个引脚, 从塑料封装体底部伸出, 封装体一侧有一个金属片用于散热。

### 1. Structural Features

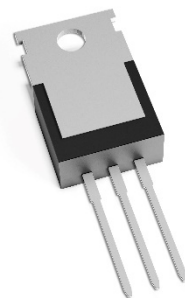
The TO-220 package typically has three pins extending from the bottom of the plastic package body, with a metal tab on one side of the package for heat dissipation.



2、**散热性能:** 封装内的金属片与器件内部结构紧密接触, 能有效将热量传导到外部环境, 安装时可将金属片与散热器连接, 进一步提高散热效果。

### 2. Heat Dissipation Performance

The metal tab inside the package is in tight contact with the internal structure of the device, enabling effective heat conduction to the external environment. During installation, the metal tab can be connected to a heat sink to further enhance the heat dissipation effect.



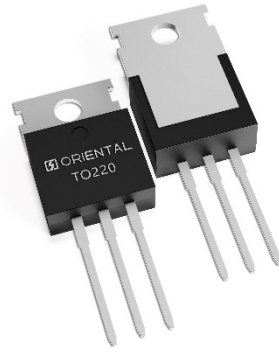
3、**安装方式:** 通过焊接引脚到印刷电路板 (PCB) 上实现安装, 若需额外散热, 可将金属片与散热器紧密



接触，并用螺丝等固定。

### 3. Mounting Method

Mounting is achieved by soldering the pins onto the printed circuit board (PCB). If additional heat dissipation is required, the metal tab can be placed in tight contact with a heat sink and secured with screws or similar fasteners.



4、**应用领域：**广泛应用于功率半导体器件，如功率晶体管、整流器、电压稳压器、功率二极管等。

### 4. Application Fields

It is widely used in power semiconductor devices such as power transistors, rectifiers, voltage regulators, and power diodes.