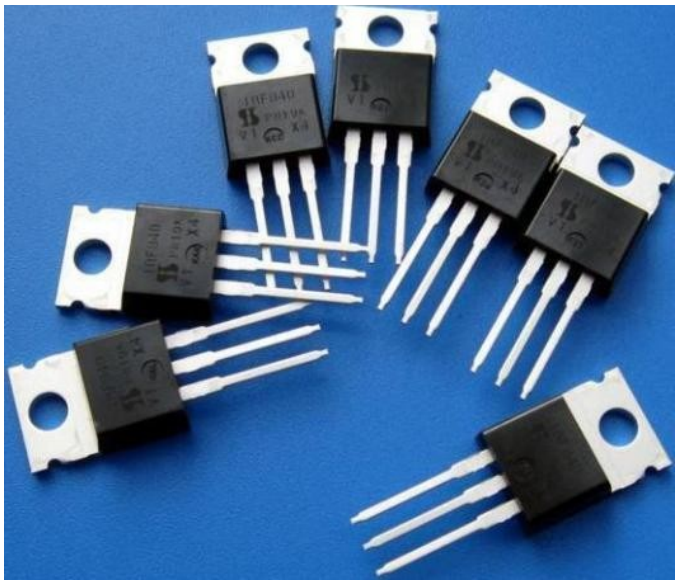
Field Effect Transistor (FET):



The field-effect transistor is a unipolar transistor, N-channel FET or P-channel FET are used for conduction. The three terminals of FET are source, gate and drain. The basic n-channel and p-channel FET's are shown above. For an n-channel FET, the device is constructed from n-type material. Between the source and drain then-type material acts as a resistor.

This transistor controls the positive and negative carriers with respect to holes or electrons. FET channel is formed by moving of positive and negative charge carriers. The channel of FET which is made by silicon.

There are many types of FET's, MOSFET, JFET and etc. The applications of FET's are in low noise amplifier, buffer amplifier and analog switch.