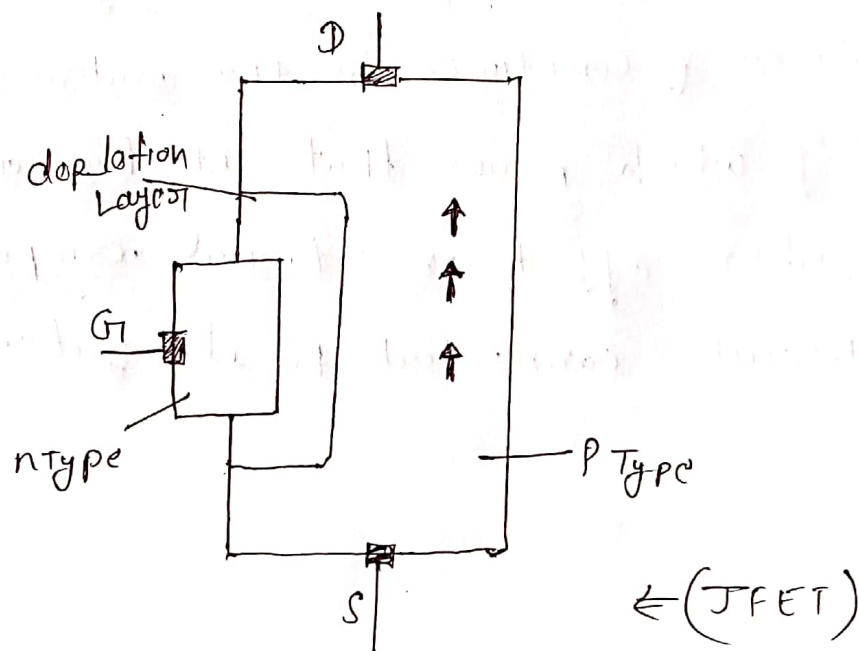


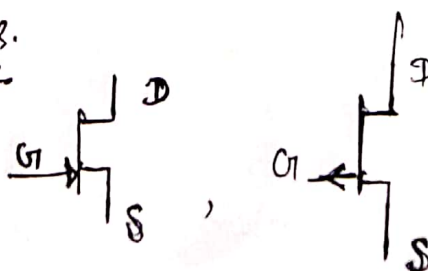
JFET  $\Rightarrow$  Junction Gate field effect Transistor is one of the simplest type of FET.

JFET are three terminal semiconductor device, that can be used as electronically controlled switches, amplifiers or voltage controlled resistors.



$\Rightarrow$  Electric current from source to drain in a p-channel JFET is restricted when a voltage is applied to the gate

Electronic Symbols.



JFET can have an n type or p type channel in the n type if the voltage applied to the gate is negative with respect to the source the current will be reduced [in the p type if the voltage applied to the gate is positive with respect to the source]. A JFET has a large input impedance [sometimes on the order of  $10^{10}$  ohms] which means that it has a negligible effect on external components or circuits connected to its gate.