

## What is Voltage Regulator?

IC 78XX Series includes three terminal positive voltage regulators commonly available in TO 220 package. These are useful in wide range of applications to give precise output voltage. These regulators have internal current limiting, and thermal shutdown circuitry. If good heat sinking is provided, these ICs can deliver 1 Amps current. These are generally considered as fixed voltage regulators but their functions can be manipulated to convert them into variable voltage regulators.

The important parameters of 78 XX series are

1. Maximum output current 1.5A
2. Output voltages – 5,5.2,6,8,9,10,12,15,18,24volts
3. Thermal overload protection
4. Short circuit protection