Stereo Sound System Independent Project

Sharad Roy - EE16B1029

Department of Electrical Engineering Indian Institute of Technology Bhilai

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Objective

Our objective is to a make Stereo Sound System or simply an Audio Amplifier. We take the input signal from a device and then amplify it using the circuit and the output can be heard through speakers.

Components used:

- TEA2025 IC
- IC 7809 Voltage Regulator
- 9-V Step Down Transformer
- Potentiometer x 2
- Capacitors
- Speaker x 2

IC 7809 Voltage Regulator

What is it?

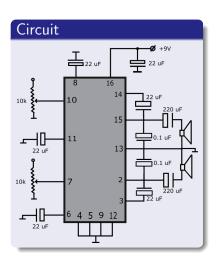
IC 7809 is a 9V Voltage Regulator that restricts the voltage output to 9V and draws 9V regulated power supply. It regulates a steady output of 9V if the input voltage is in the range. There are 3 pins in IC 7809, pin 1 takes the input voltage and pin 3 produces the output voltage. The GND of both input and out are given to pin 2.



TEA2025A IC

About it

The UTC TEA2025 is a monolithic integrated audio amplifier IC. It is capable of providing max. gain of 45dB. However, it can be lowered by placing an external RC series circuit between the feedback pin (6 and 11, see pin diagram) and ground. It has an inbuilt heat sink. The 0.1 μF capacitors at the output end are for frequency stability.



Rectifying Circuit

