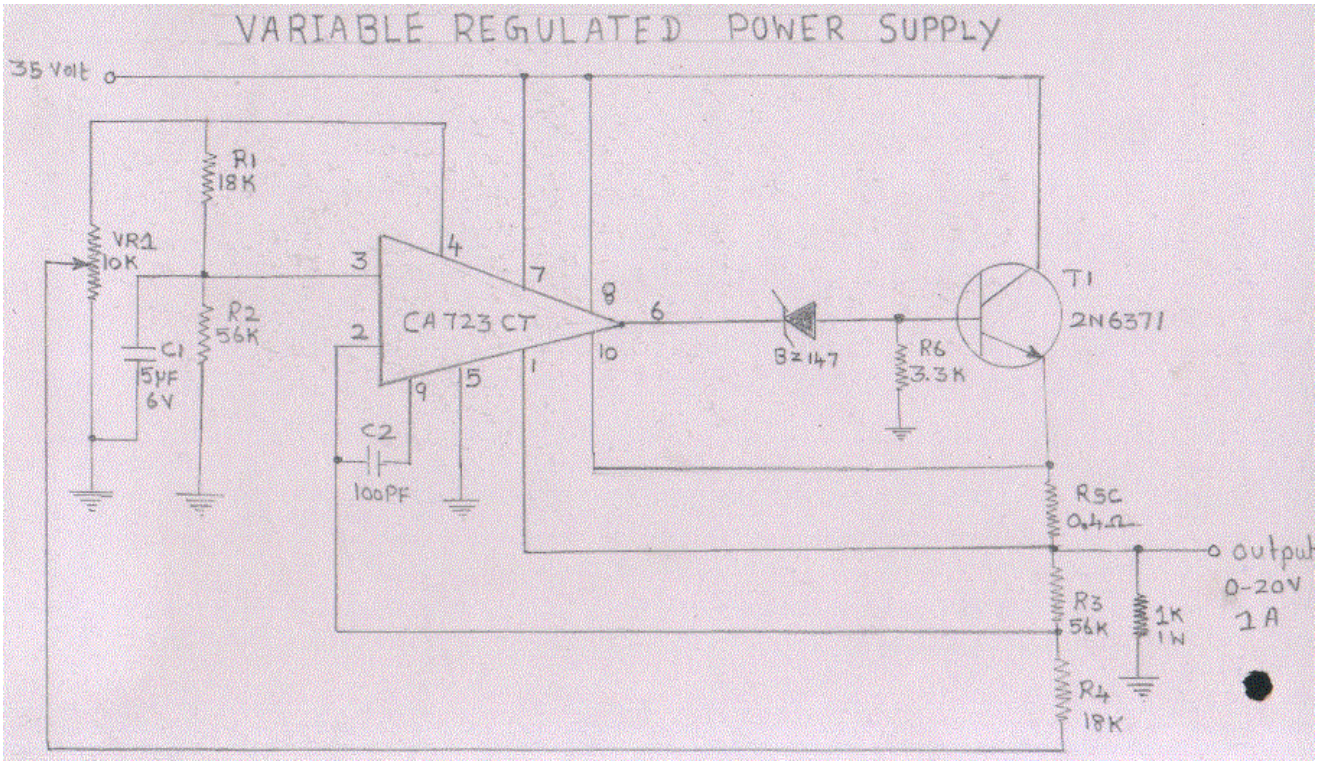
Variable Regulated Power Supply



Description: Switching Power Supply

Continously varaible output of 0 to 20 volt can be obtained using with the circuit given here.The reference voltage is applied to the non-inverting input of the error amplifier through the potential divider R1 and R2.potentiometer R 'p' provides varation in the output voltage from 0 to 20 volts.It is required to keep a resistor across the output termilanls to provide a path for the leakage current of the series pass transisitor as well as the bleeder current, at the output voltages near zero. The resistor R6 biases the zenar suitably.This circuit provides line and load regulations upto a maximum load current of 1 ampere , are better than 0.1%and 0.15% respectively. suitable heat sinks have to be provided for the IC and the series pass transistor T1[2N 6371]