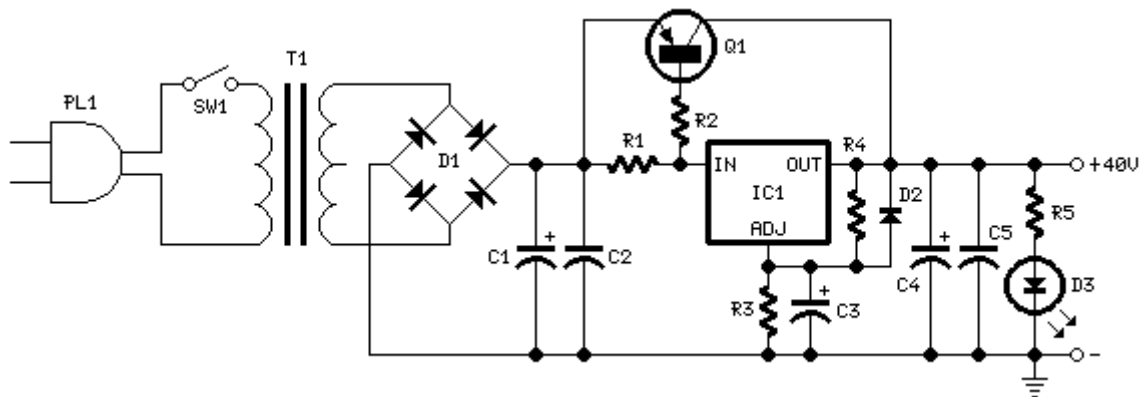


Regulated Power Supply 40V 2A by LM317 + TIP42



This is circuit Fix power supply Regulator 40V 2A for main Power Amplifier 30W. It is use IC LM317T (Hot IC Variable Regulator) and Transistor TIP42 for boost up Current to 2A max . Other detail see in circuit.

A very good and powerful Regulated Power Supply section was implemented by simply adding a PNP power transistor to the excellent LM317T adjustable regulator chip. In this way this circuit was able to deliver much more than the power required to drive two Mini-MosFet amplifiers to full output (at least 2Amp @ 40V into 4 Ohm load) without any appreciable effort.

Regulated Power Supply Parts:

R1:	3R9 1 or 2W Resistor
R2:	22R 1/4W Resistor
R3:	6K8 1/4W Resistor
R4:	220R 1/4W Resistor
R5:	4K7 1/2W Resistor
C1:	3300 μ F 50V Electrolytic Capacitor (or 4700 μ F 50V)
C2,C5:	100nF 63V Polyester Capacitors
C3:	10 μ F 63V Electrolytic Capacitor
C4:	220 μ F 50V Electrolytic Capacitor
D1:	Diode bridge 100V 4A
D2:	1N4002 200V 1A Diode
D3:	LED Any type and color
IC1:	LM317T 3-Terminal Adjustable Regulator
Q1:	TIP42A 60V 6A PNP Transistor
SW2:	SPST Mains switch
T1:	230V Primary, 35-36V (Center-tapped) Secondary, 50-75VA Mains transformer (See Notes)
PL1:	Male Mains plug with cord