Regulator 0-30V 5A by IC 723 & 2N3055 -2part

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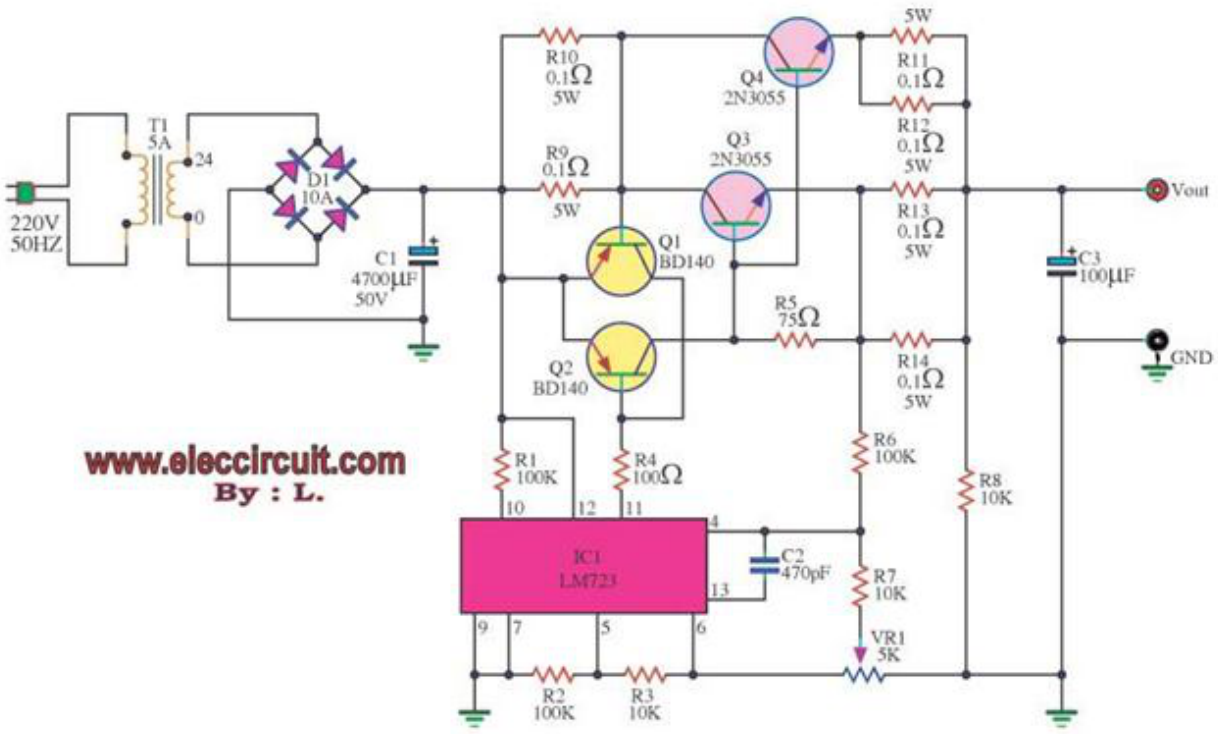
Posted by momename - May 11, 2007 at 1:03 pm

This **0-30V power supply** is special that the output to 5amp min 5A. It use IC LM723 + **2N3055 power transistor** x2 part. so do the current too much than this circuit (easy circuit)
To use transformer **5A**, Transistor 2N3055 to Hold Heatsink, VR1-5K to ADJ Volt Output.

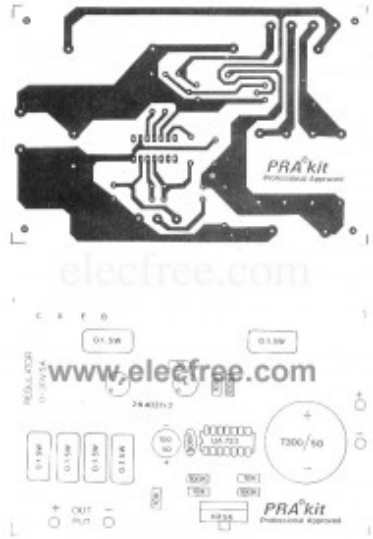
One of our most popular a power supply circuit is **the variable voltage regulator 0-30V 2A**.
However, because someone want to work at higher loads. Let us modify the new circuit for the work load has increased.
We do not offend you, In this Power supply circuit 0-30V 5A is adapted to the work
direct follow want of all of you.

This circuit is still the principle original everything. Just only changes the current limiting circuit. by use the resistors 0.1ohm 5W two pieces for the parallel, to be able to withstand loads as wanted.
We should not forget, use the resistor size 0.1ohm 5 watt amounting 2 pieces to parallel each other
Then, connected to the emitter of the two 2N3055. To offset features that might be slightly different, these two transistors.
To create just operators device in a PCB form and then to make correct completed is available. Without you have adjusting customized at any the circuit.



circuit Regulator 0-30V 5A by IC LM723 & 2N3055 x 2

Other circuits are recommended.:
:**DC Variable Regulator 0-30V 5A** ::
Power supply regulator 0-30V 1A ::
0-50V 2A DC adjustable power supply



PCB Regulator 0-30V 5A by IC LM723 & 2N3055 x 2
Source: PK kit Circuit book

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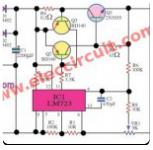
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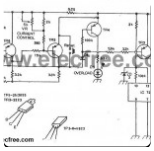
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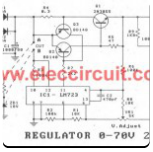
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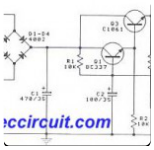
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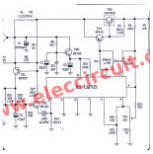
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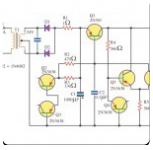
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18 Responses to “Regulator 0-30V 5A by IC 723 & 2N3055 -2part”

1. *staricoo* says:
   July 16, 2012 at 3:11 pm

Tanks . is good

2. *chayapon* says:
   July 16, 2012 at 8:03 pm

   You are welcome.

3. *bilal* says:
   November 17, 2012 at 8:08 am

   hi,
   can someone please modify it for 10 and 20amps, and how can i control the lm723 voltage through PIC by pwm .

4. *Sunilkumar* says:
   December 15, 2012 at 9:50 am

   This is good and works. There are a few hicks up though – Whent eh voltage is beyond 20V, the IC starts heating up – the solution would be to replace the R4 resistor with a higher value. Also, when you make the pot zero, the output voltage still shows as 0.5~0.7 V. The solution could be to use a volatge doubler – a negative one and provide a -VCC as reference.

5. *DANIEL* says:
   December 18, 2012 at 10:33 am

   Hi buddy
   I feel like I do get nquietud diagram is the same as on this page
   http://www.eleccircuit.com/regulator-0-30v-5a-by-ic-723-2n3055-2part/#respond
   Hi buddy
   I feel like I do get nquietud diagram is the same as on this page
   20 volts would increase more to get 50 volts at the output, in terms of amperage is ok.
   how do I get the diagram make greetings DANIEL

6. *Daniel* says:
   December 20, 2012 at 7:39 am

   Hi all I wonder if this can be modified to circito 50V amperage is ok hugs greetings Daniel

7. *Alexandre* says:
   April 25, 2013 at 7:54 am

   Hi,is possible modifild for this circut for 0-16V. 10amp? thank you

8. *Patrick* says:
   July 9, 2013 at 2:21 am

   Thanks,it works.But as Sunlkumar said, when the voltage is above 20,the IC heats up.Exactly What higher value of R4 should I use?please help

9. *Uri Monfiston* says:
   January 22, 2014 at 3:34 pm

   I feel so amazing to explore you experience in your site…please can you show me a easy way to test a power transistor?

10. *samuel* says:
    February 16, 2014 at 2:35 pm

    pls am having a challenge in steping down 5A to 1A using lm317T pls its really urgent and i will be so thankful, if you can assist…..

11. *Marcelo* says:
    May 1, 2014 at 5:06 pm

First time I turned it on it worked. But then the R4 start to burn, smell and the voltage stayed at max. I tried to replace this resistor with a 10k and a 100k. But the voltage still stays at max. Do you guys think that the IC has been burned because the first attempt with the 100ohm R4?

12. *AraBiyaSofT | Régulateur variable 0-30V 5A par LM723, CA3140, 2N3055* says:
May 13, 2014 at 11:29 am

    […] LinksLM723 variable regulator5A regulated power supplyCA3140 application circuitsRegulator 0-30V 5A by IC 723 & 2N3055 -2partHigh power supply regulater 0-30V 20A by LM338Power Supply Adjustable 0-30V 2A by UA723+2N3055Power […]

13. *tajinder* says:
July 14, 2014 at 12:53 pm

    Is over load protection is available in this circuit

14. *xdisc* says:
September 6, 2014 at 5:14 am

    R4 = 3.3 K

15. *xdisc* says:
September 6, 2014 at 5:50 am

    R4=3.3K
    PCB be modified
    http://www.picdee.com/images/2014/09/06/IMG20140906193341YGwvf.jpg

16. *chayapon* says:
September 6, 2014 at 8:10 am

    Hi, xdisc
    Thanks for your feedback.
    Your job is good.
    If your project finished.
    Please share us to appreciate them.

17. *Kasun Nanayakkare* says:
October 12, 2014 at 4:11 am

    Hello!
    The supply is 24*5=120W. But your supposed output is 30*5=150W. The law on energy is not valied here. Why is it???

18. *Qaiser* says:
November 21, 2014 at 7:15 am

    i want to ask
    1.what is the wattage of other resistors (R1-R8)?
    2.which substitute can i use instead of BD140? because it is not available in market here.
    3. for 2n3055 heat sinks are required?
    thanking you in anticipation.

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