



DC Power Supply Data Sheet

Solid State Electronic Devices Project

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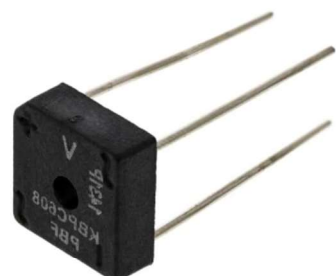
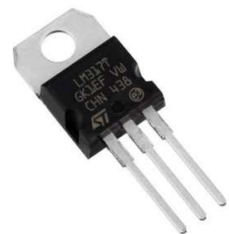
Under the supervision of






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The Aim of the project:



to construct an adjustable regulated power supply that can provide DC voltage ranging from 1.2-30V. as the electric circuit consists of an AC Transformer followed by a rectifier bridge then smoothing capacitor and an adjustable voltage regulator integrated circuit.

Circuit components:

COMPONENTS	VALUES	
Bridge Rectifier	100V-3A	
Adjustable Voltage Regulator (LM317)		

Transformer	24V-3A	
Resistors	18K,5% 220,5%	
Potentiometer	5K	
Capacitors	2200 micro-farad 0.1 micro-farad 1 micro-farad,40V	
Diode	400V,1A	

<p>Switch (on/off rocker switch)</p>		
<p>Connectors</p>		
<p>Plug (2 wire plug & cord)</p>		
<p>Wires</p>		
<p>Banana Plug Connectors (Red and Black)</p>		

<p>Soldering Iron</p>		
<p>LED</p>		
<p>PCB Board</p>		