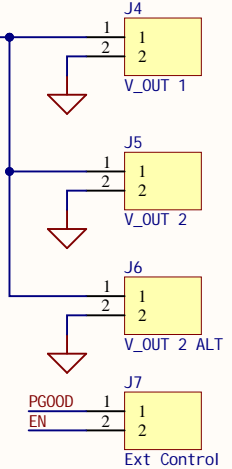
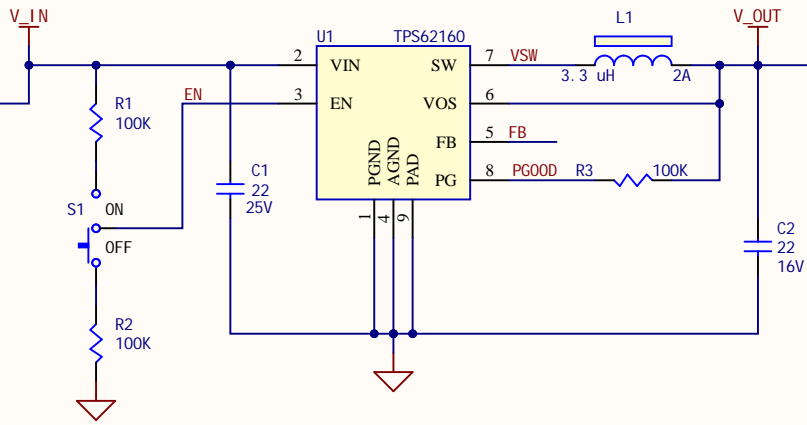


Input:  
3V to 17V  
(9V battery, 12V wall wart,  
USB, single LiPo, etc)

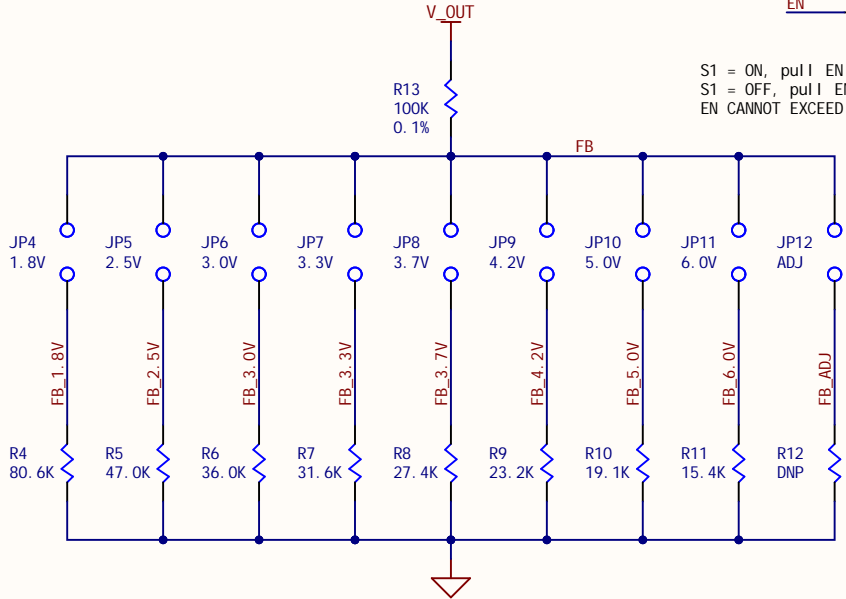
Output:  
0.9V to 6V  
1A max

Diode bypass jumpers are for directly connecting the input supply, useful if you don't want that voltage drop due to the Vf of the diode.

Use at your own risk, if jumper is installed, there will be no protection from accidentally shorting different power sources if you plug 2 in simultaneously.



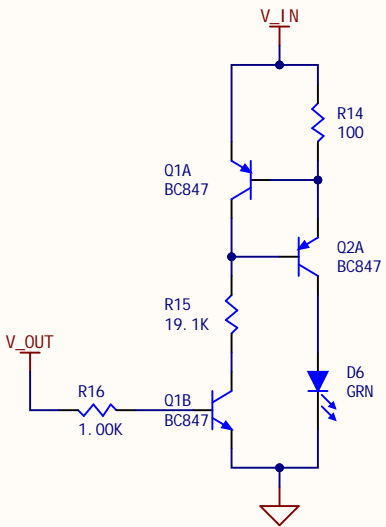
S1 = ON, pull EN low to shut off  
S1 = OFF, pull EN high to turn on  
EN CANNOT EXCEED VIN



Jumper-selectable output voltage with spare for custom output.

Top resistor is 0.1% accuracy, bottom resistors are 1.0% accuracy.

$R_{top} = R_{bot} * (V_{out}/0.8 - 1)$



Constant current to LED even at low V\_IN

Instagram: @fri volous.circuits  
Twitter: @fri volous\_circs  
YouTube: Alpenglow Industries  
Hackaday: Alpenglow Industries  
www.alpenglowindustries.com



The Swi tchTri ck

Size: A	Number: SWT-0100	Rev: B
Creation Date: 8/25/2019	Created By: C. SUNDR A	
Saved Date: 2/2/2021	Modified By: C. SUNDR A	
File: Swi tchTri ckB.SchDoc	Sheet 1 of 1	