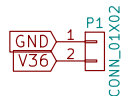


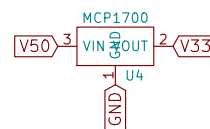
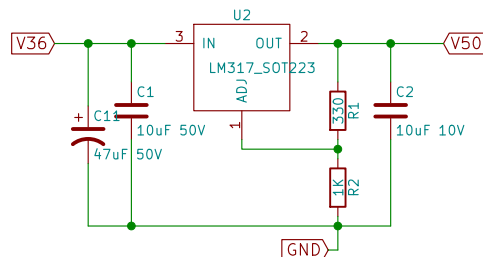
Main Power Input  
Assuming 36V Input  
LM317 can handle up to 40V



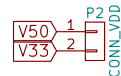
$$330/1000 = 5.04V$$

$$330/560 = 3.37V$$

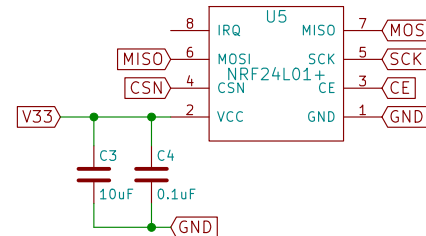
$$V_{out} = 1.25V * (1 + R2/R1) + I_{adj}R2$$



Bridge V50 to V33  
If LM317 output is  
3.3V instead of 5.0V

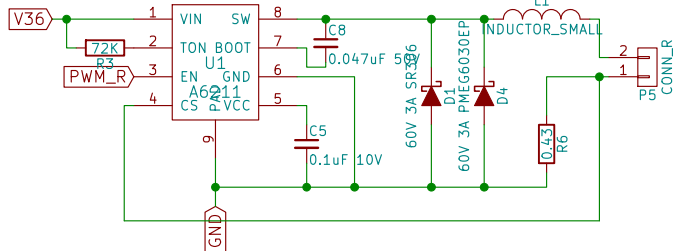


Bluetooth Module  
uses the SPI interface  
requires 3.3V voltage supply

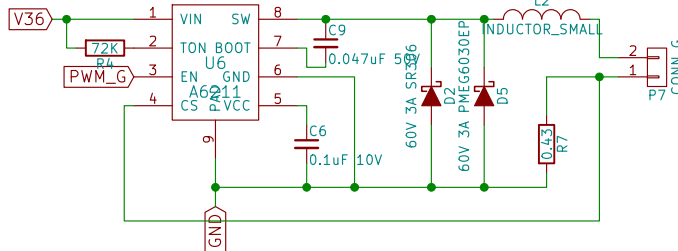


A6211 Logic HIGH is >1.8V, so no level shifting is needed

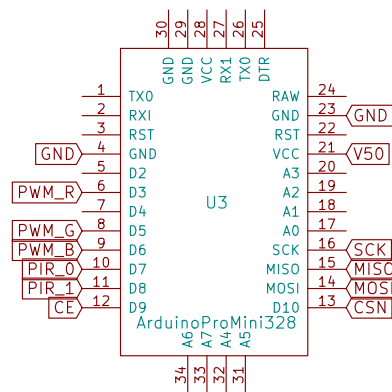
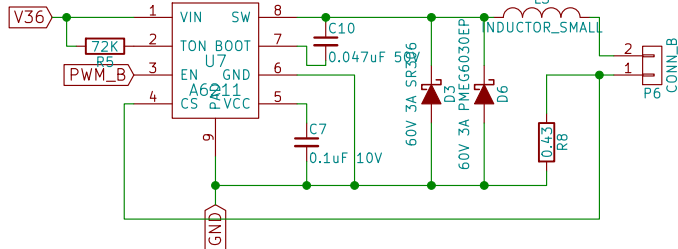
PMEG6030EP,115 - SOD128  
SR306-TP - DO-201AD



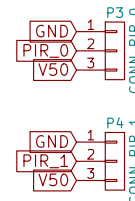
PMEG6030EP,115 - SOD128  
SR306-TP - DO-201AD



PMEG6030EP,115 - SOD128  
SR306-TP - DO-201AD



PIR Sensor 5-20V Input  
3.3V Digital Output



Matthew Swarts

D.O.P.E.

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File: ZenGardenStar\_RevA.sch

**Title: ZenGardenStar**

Size: A4 Date: 2017-03-09

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