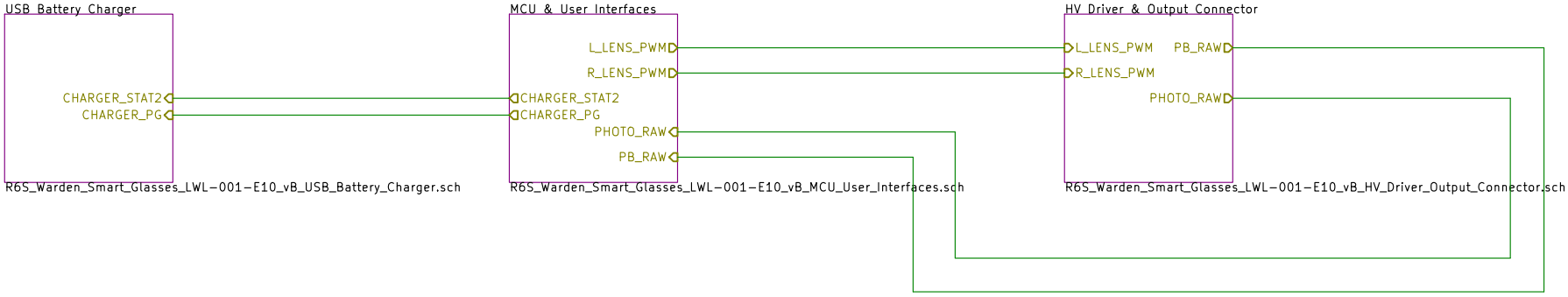


Design by Lambda Wolf Labs.

Drawing Number:
LWL-001-E12

Lambda Wolf Labs

Sheet: /
File: R6S_Warden_Smart_Glasses_LWL-001-E10_vB.sch

Title: R6S Warden Smart Glasses - Root

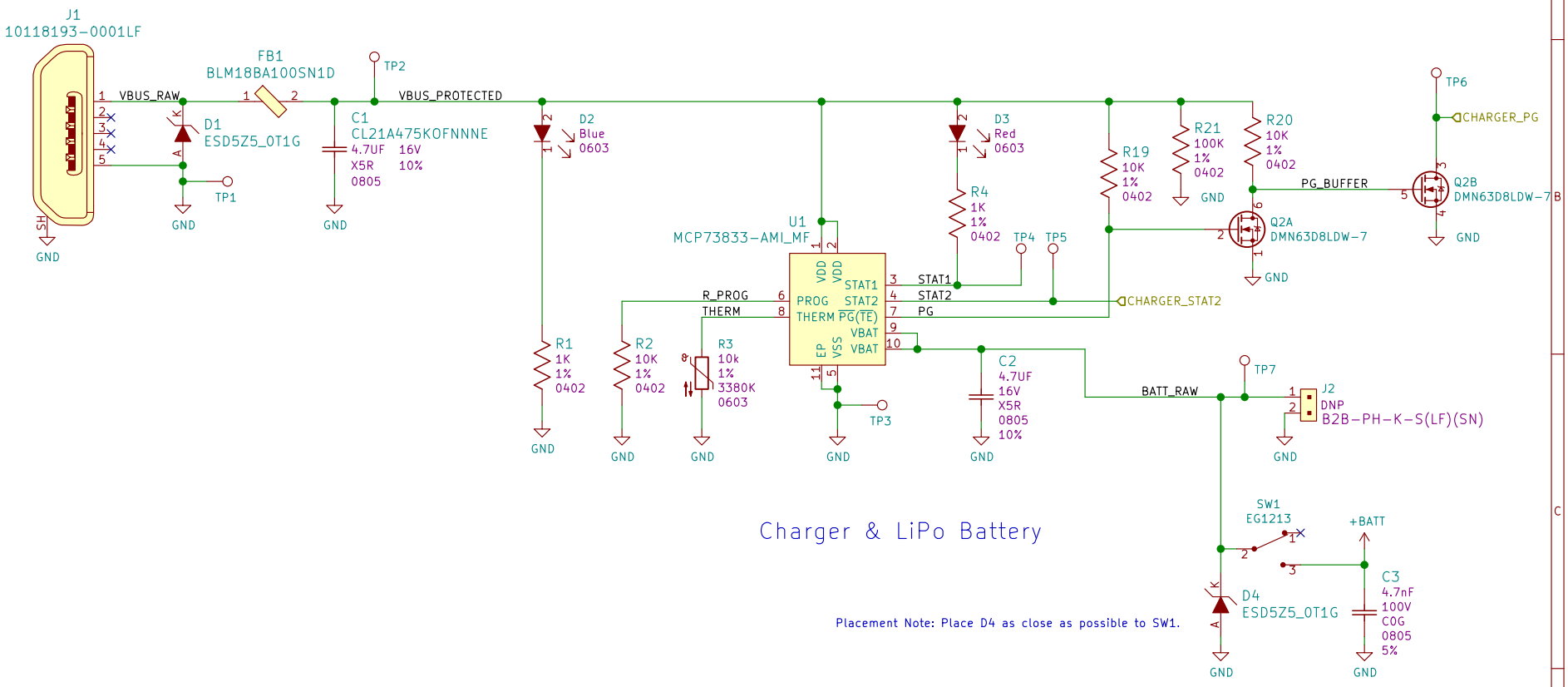
Size: A4	Date: 2019-12-08	**Rev: B**
KiCad E.D.A. kicad (5.1.2)-2		Id: 1/4

microUSB Power In & Protection

Placement Note: Place D1 as close as possible to J1.

Placement Note: Place C1, C2, J1, R2 & R3 as close as possible to the respective VDD & VBAT pins of U1.

Placement Note: Place all testpoint as close as possible to their respective components as shown in schematic.



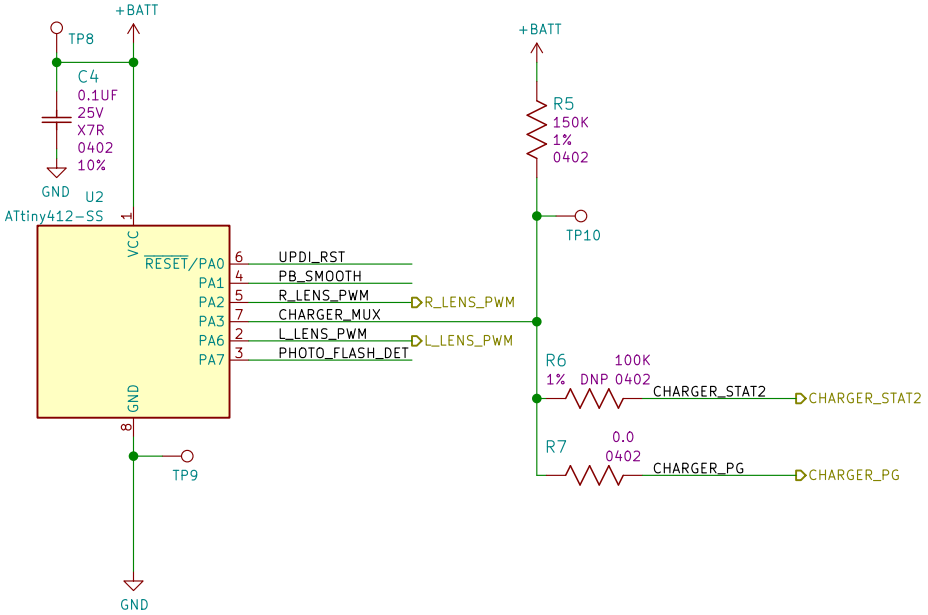
Charger & LiPo Battery

Placement Note: Place D4 as close as possible to SW1.

Design by Lambda Wolf Labs.

Drawing Number: LWL-001-E12	
Lambda Wolf Labs	
Sheet: /USB Battery Charger/ File: R6S_Warden_Smart_Glasses_LWL-001-E10_vB_USB_Battery_Charger.sch	
Title: R6S Warden Smart Glasses – USB Battery Charger	
Size: A4	Date: 2019-12-08
KiCad E.D.A. kicad (5.1.2)-2	**Rev: B** Id: 2/4

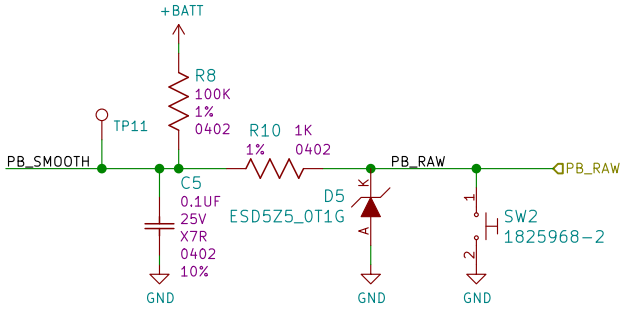
Placement Note: Place C4 as close as possible to U2's VCC and GND pins.



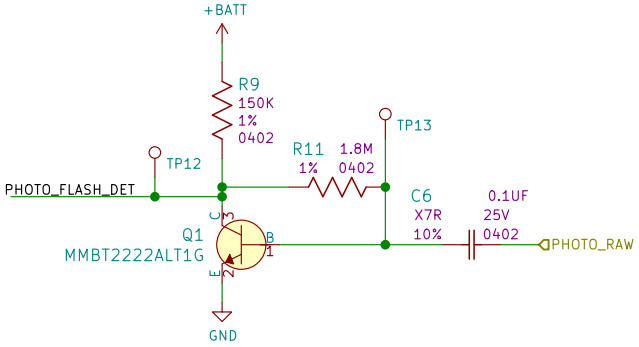
Atmel AVR MCU

Placement Note: Place all testpoint as close as possible to their respective components as shown in schematic.

Placement Note: Place D5 as close as possible to SW2.

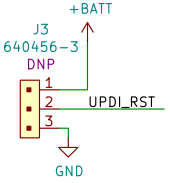


Debouncer & ESD Protection for Pushbutton



Xenon Flash Detector – Photodiode Amplifier

Atmel UPDI Programmig/Debug Interface (pyUPDI)



Design Note: Internal interface thus no ESD protection required.

Design by Lambda Wolf Labs.

Drawing Number:
LWL-001-E12

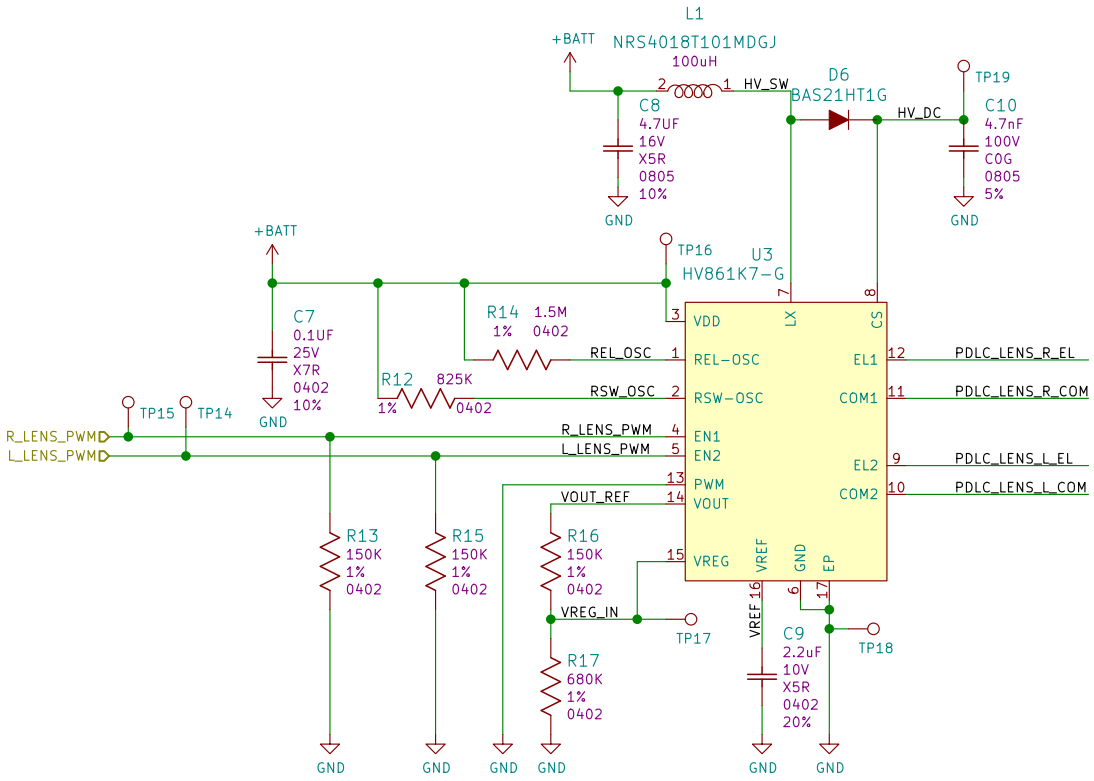
Lambda Wolf Labs

Sheet: /MCU & User Interfaces/
File: R6S_Warden_Smart_Glasses_LWL-001-E10_vB_MCU_User_Interfaces.sch

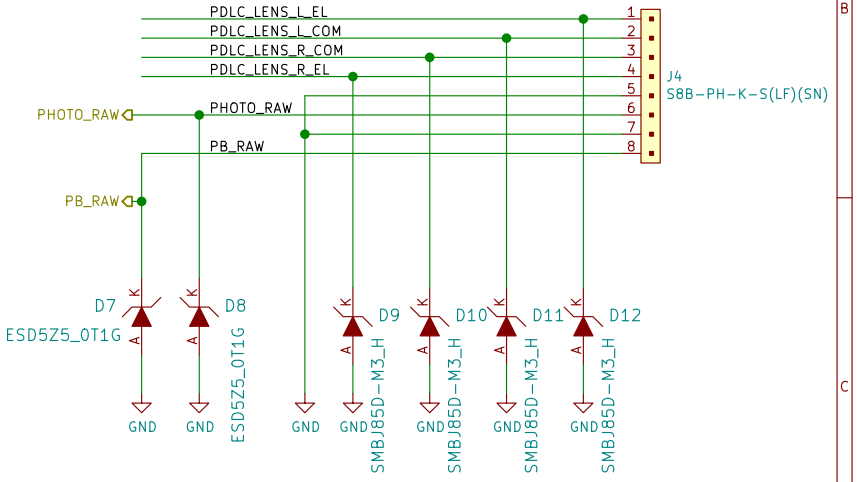
Title: R6S Warden Smart Glasses – MCU & User Interfaces

Size: A4	Date: 2019-12-08	**Rev: B**
KiCad E.D.A. kicad (5.1.2)-2		Id: 3/4

High Voltage Dual EL Driver



Placement Note: Place D7–D12 as close as possible to J4.



General I/O Connections & Protection

Note: D9 – D12 can be bumped down to SMBJ58D if using 150k & 680kOhm for R16 & R17.

Design by Lambda Wolf Labs.

Drawing Number:
LWL-001-E12

Lambda Wolf Labs

Sheet: /HV Driver & Output Connector/
File: R6S_Warden_Smart_Glasses_LWL-001-E10_vB_HV_Driver_Output_Connector.sch

Title: R6S Warden Smart Glasses – HV Driver & Output Connector

Size: A4	Date: 2019-12-08	**Rev: B**
KiCad E.D.A. kicad (5.1.2)-2		Id: 4/4