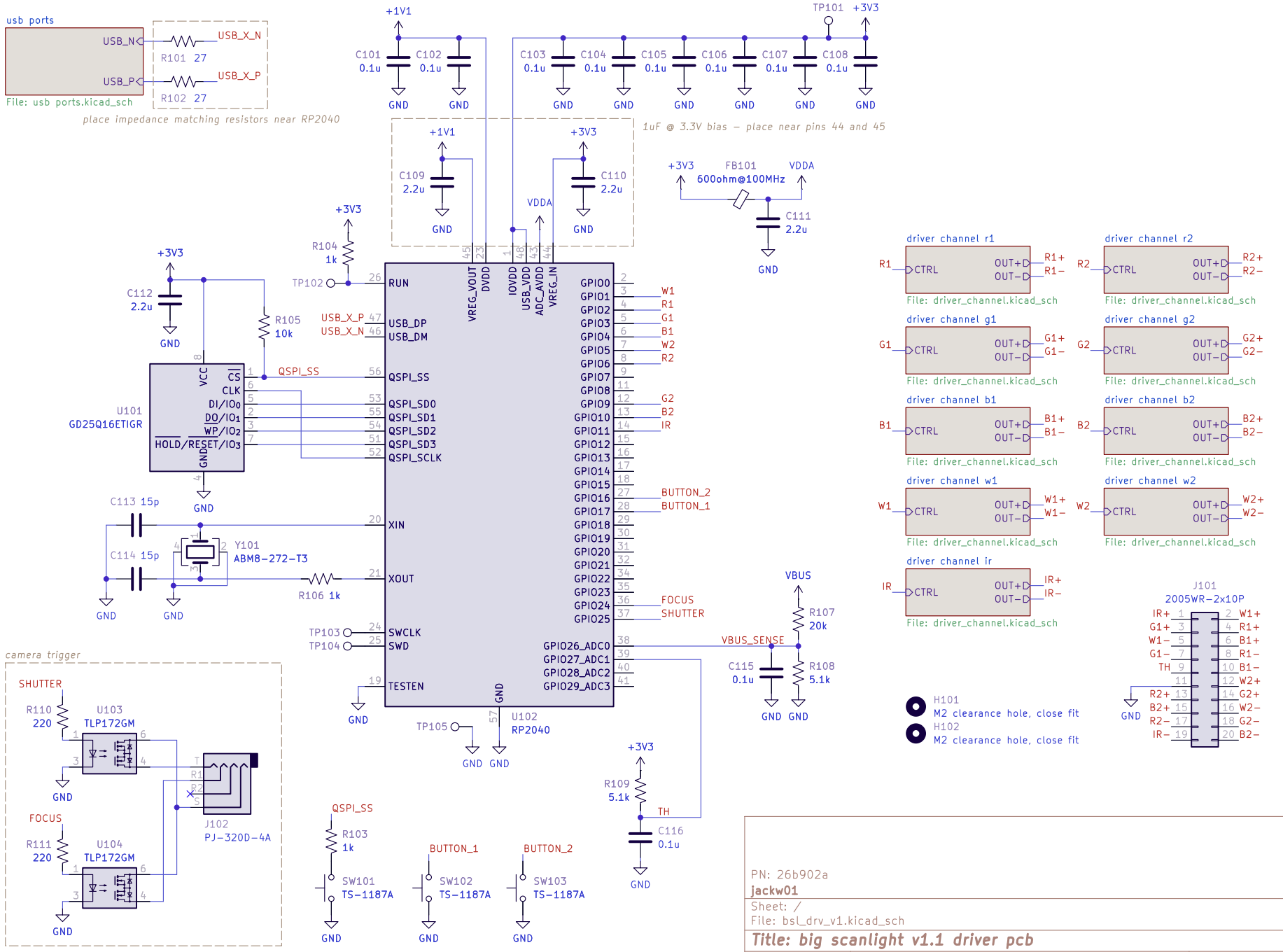
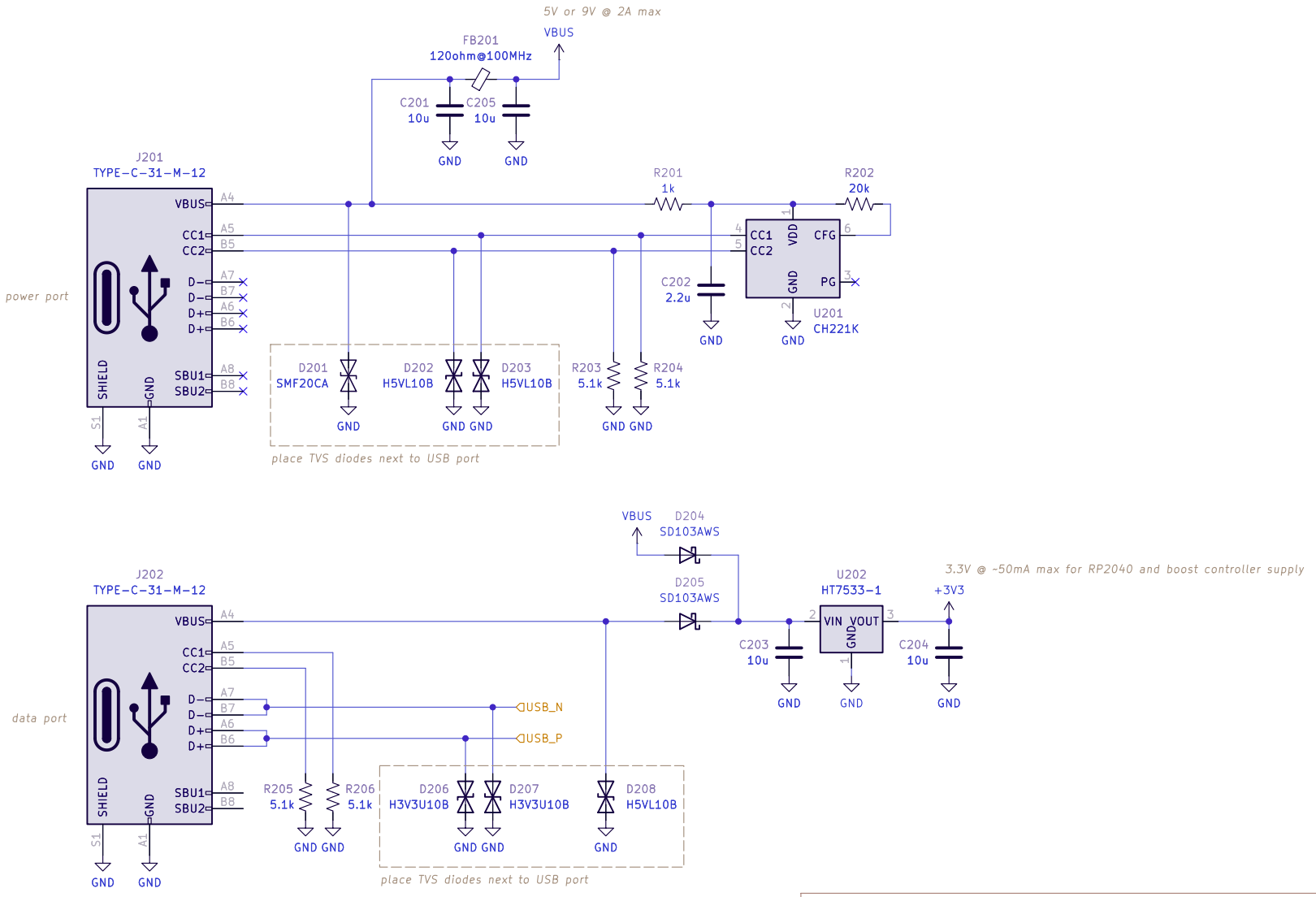

usb ports
USB_N
USB_P
USB_X_N
USB_X_P
R101 27
R102 27
File: usb ports.kicad_sch
place impedance matching resistors near RP2040
+1V1
C101 0.1u
C102 0.1u
C103 0.1u
C104 0.1u
C105 0.1u
C106 0.1u
C107 0.1u
C108 0.1u
TP101
+3V3
GND
1uF @ 3.3V bias — place near pins 44 and 45
C109 2.2u
C110 2.2u
VDDA
+3V3
FB101
600ohm@100MHz
C111 2.2u
R104 1k
TP102
C112 2.2u
R105 10k
U101
GD25Q16ETIGR
VCC
CS
CLK
DI/IO0
DO/IO1
WP/IO2
HOLD/RESET/IO3
GND
QSPI_SS
C113 15p
C114 15p
Y101
ABM8-272-T3
R106 1k
U102
RP2040
RUN
USB_DP
USB_DM
QSPI_SD0
QSPI_SD1
QSPI_SD2
QSPI_SD3
QSPI_SCLK
XIN
XOUT
SWCLK
SWD
TESTEN
VREG_VOUT
DVDD
IOVDD
USB_VDD
ADC_AVDD
VREG_IN
GPIO0
GPIO1
GPIO2
GPIO3
GPIO4
GPIO5
GPIO6
GPIO7
GPIO8
GPIO9
GPIO10
GPIO11
GPIO12
GPIO13
GPIO14
GPIO15
GPIO16
GPIO17
GPIO18
GPIO19
GPIO20
GPIO21
GPIO22
GPIO23
GPIO24
GPIO25
GPIO26_ADC0
GPIO27_ADC1
GPIO28_ADC2
GPIO29_ADC3
W1
R1
G1
B1
W2
R2
G2
B2
IR
BUTTON_2
BUTTON_1
FOCUS
SHUTTER
TP103
TP104
TP105
VBUS
R107 20k
R108 5.1k
C115 0.1u
VBUS_SENSE
R109 5.1k
TH
C116 0.1u
camera trigger
SHUTTER
R110 220
U103
TLP172GM
FOCUS
R111 220
U104
J102
PJ-320D-4A
QSPI_SS
R103 1k
SW101
TS-1187A
BUTTON_1
SW102
TS-1187A
BUTTON_2
SW103
TS-1187A
driver channel r1
driver channel r2
driver channel g1
driver channel g2
driver channel b1
driver channel b2
driver channel w1
driver channel w2
driver channel ir
CTRL
OUT+
OUT-
File: driver_channel.kicad_sch
J101
2005WR-2x10P
H101
M2 clearance hole, close fit
H102
M2 clearance hole, close fit
PN: 26b902a
jackw01
Sheet: /
File: bsl_drv_v1.kicad_sch
Title: big scanlight v1.1 driver pcb
Size: USLetter
Date: 2026-10-08
Rev: 1
KiCad E.D.A. 10.0.7
Id: 1/11

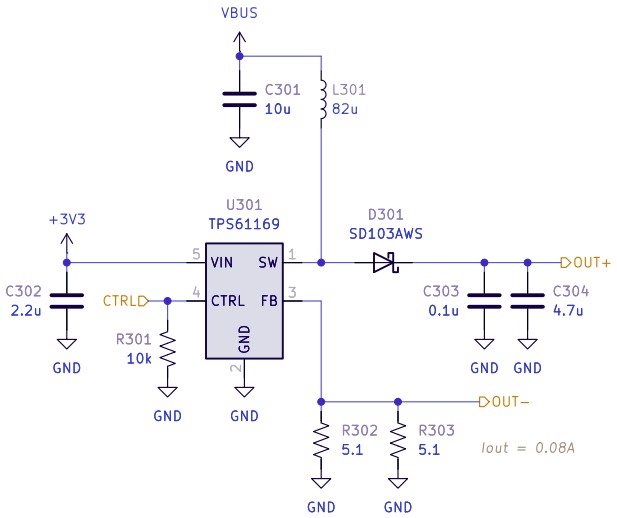


PN: 26b902a
jackw01

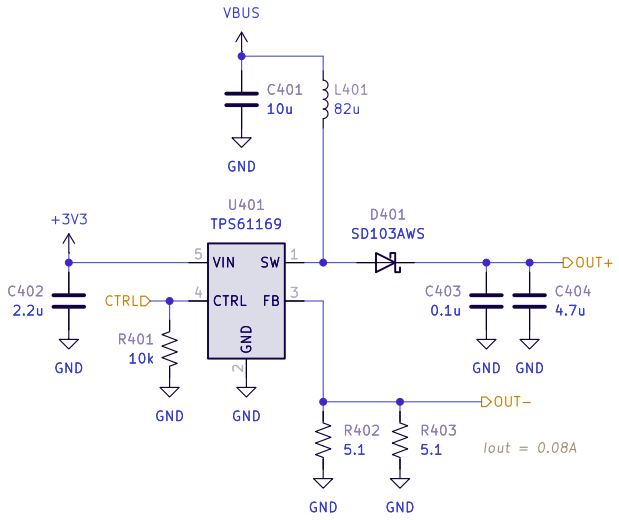
Sheet: /usb ports/
File: usb ports.kicad_sch

Title: big scanlight v1.1 driver pcb

Size: USLetter	Date: 2026-10-08	**Rev: 1**
KiCad E.D.A. 10.0.7		Id: 2/11



PN: 26b902a		
jackw01		
Sheet: /driver channel r1/		
File: driver_channel.kicad_sch		
Title: big scanlight v1.1 driver pcb		
Size: USLetter	Date: 2026-10-08	**Rev: 1**
KiCad E.D.A. 10.0.7		Id: 3/11

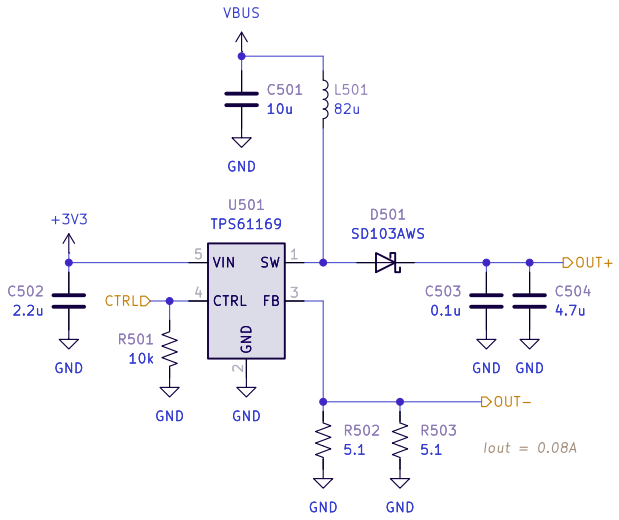


PN: 26b902a
jackw01

Sheet: /driver channel r2/
File: driver_channel.kicad_sch

Title: big scanlight v1.1 driver pcb

Size: USLetter	Date: 2026-10-08	**Rev: 1**
KiCad E.D.A. 10.0.7		Id: 4/11

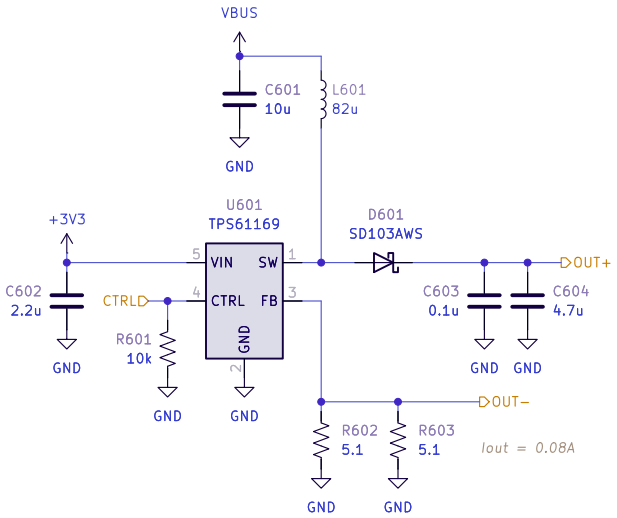


PN: 26b902a
jackw01

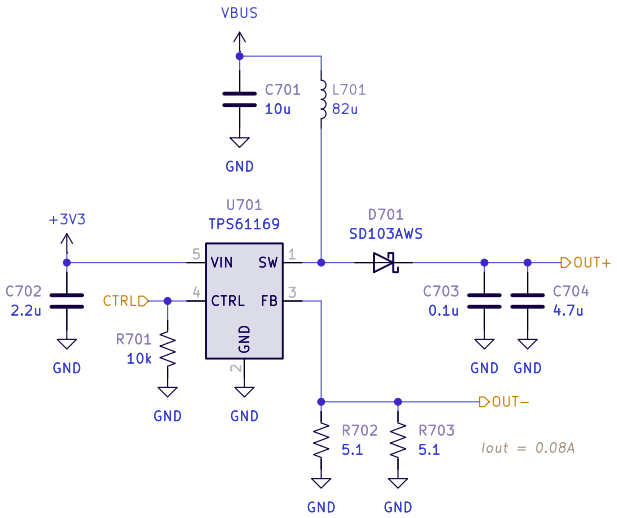
Sheet: /driver channel g1/
File: driver_channel.kicad_sch

Title: big scanlight v1.1 driver pcb

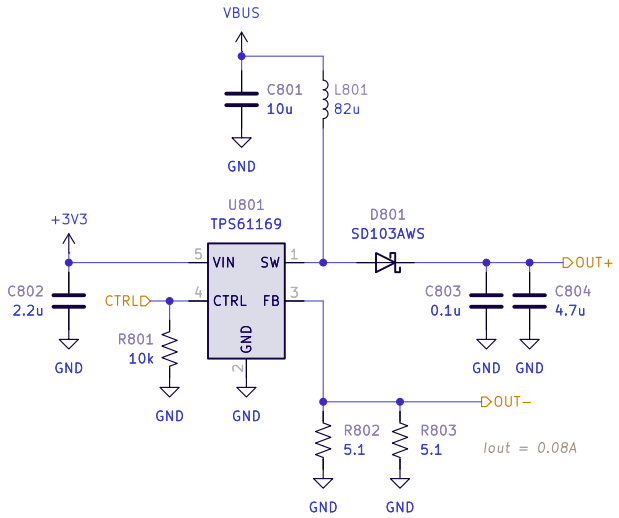
Size: USLetter	Date: 2026-10-08	**Rev: 1**
KiCad E.D.A. 10.0.7		Id: 5/11



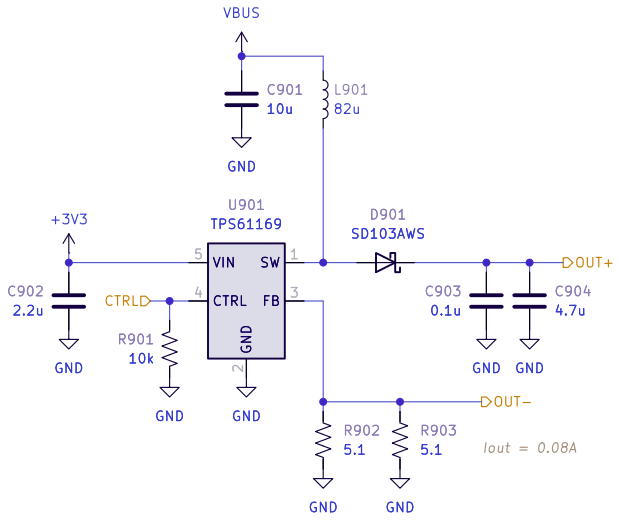
PN: 26b902a		
jackw01		
Sheet: /driver channel g2/		
File: driver_channel.kicad_sch		
Title: big scanlight v1.1 driver pcb		
Size: USLetter	Date: 2026-10-08	**Rev: 1**
KiCad E.D.A. 10.0.7		Id: 6/11



PN: 26b902a		
jackw01		
Sheet: /driver channel b1/		
File: driver_channel.kicad_sch		
Title: big scanlight v1.1 driver pcb		
Size: USLetter	Date: 2026-10-08	**Rev: 1**
KiCad E.D.A. 10.0.7		Id: 7/11



PN: 26b902a		
jackw01		
Sheet: /driver channel b2/		
File: driver_channel.kicad_sch		
Title: big scanlight v1.1 driver pcb		
Size: USLetter	Date: 2026-10-08	**Rev: 1**
KiCad E.D.A. 10.0.7		Id: 8/11

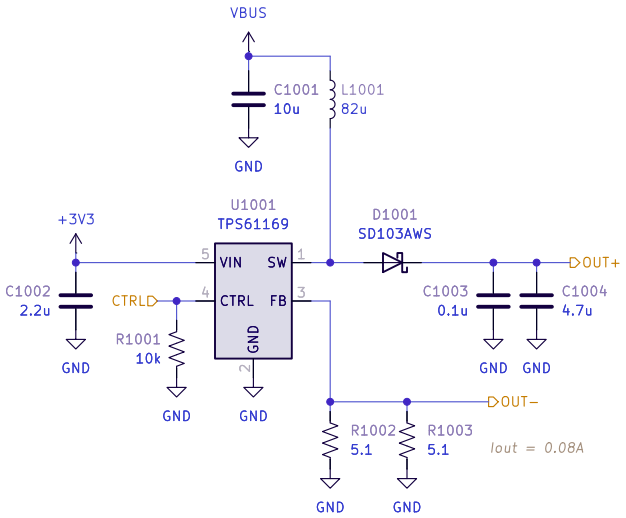


PN: 26b902a
jackw01

Sheet: /driver channel ir/
File: driver_channel.kicad_sch

Title: big scanlight v1.1 driver pcb

Size: USLetter	Date: 2026-10-08	**Rev: 1**
KiCad E.D.A. 10.0.7		Id: 9/11

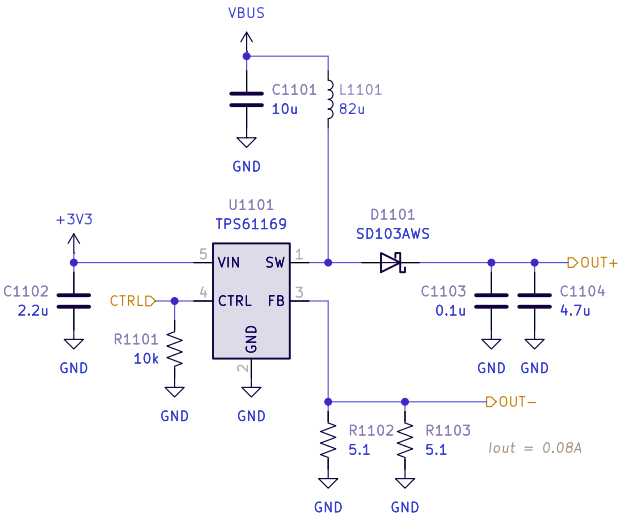


PN: 26b902a
jackw01

Sheet: /driver channel w1/
File: driver_channel.kicad_sch

Title: big scanlight v1.1 driver pcb

Size: USLetter	Date: 2026-10-08	**Rev: 1**
KiCad E.D.A. 10.0.7		Id: 10/11



PN: 26b902a
jackw01

Sheet: /driver channel w2/
File: driver_channel.kicad_sch

Title: big scanlight v1.1 driver pcb

Size: USLetter	Date: 2026-10-08	**Rev: 1**
KiCad E.D.A. 10.0.7		Id: 11/11