
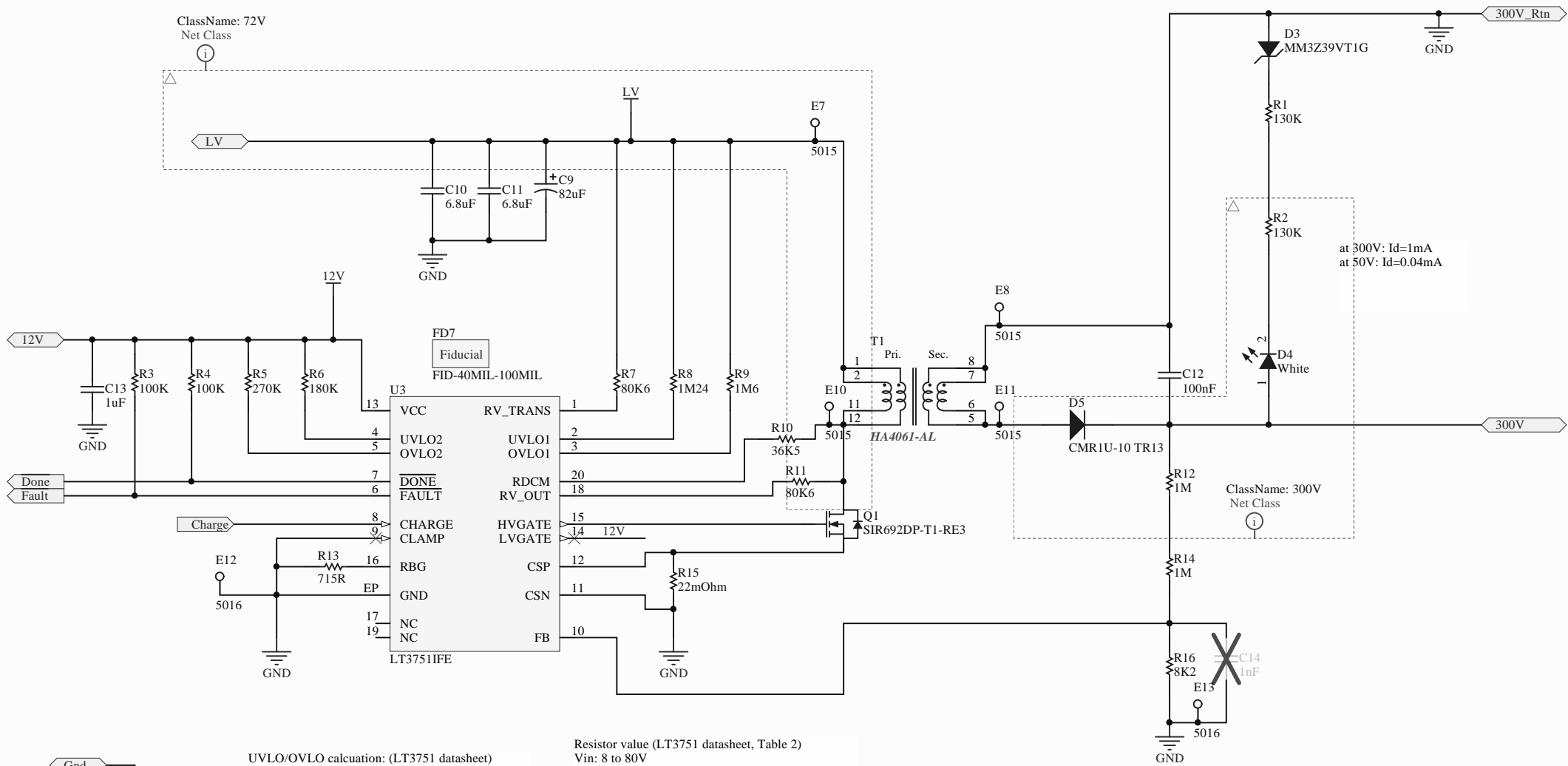


Sheet Title: *			* * * * *	
Project Title: <i>Strobe-Light.PrjPcb</i>				
Size: Tabloid	Number:	Revision:		
Date: 4/11/2019	Time: 1:33:13 PM	Sheet * of *		
Author: *	File: Led-Driver.SchDoc			



UVLO/OVLO calcaution: (LT3751 datasheet)
 $1.225V + 50\mu A \cdot R$
UVLO1: (Vtrans), 1M24--> 63V
OVLO1: (Vtrans), 1M6 --> 81V
UVLO2: (Vcc), 180k --> 10.2V
OVLO2: (Vcc), 270k --> 14.7V

Vcc: min 4.75V, max 24V

LVGate connects to Vcc while Vcc > 8V

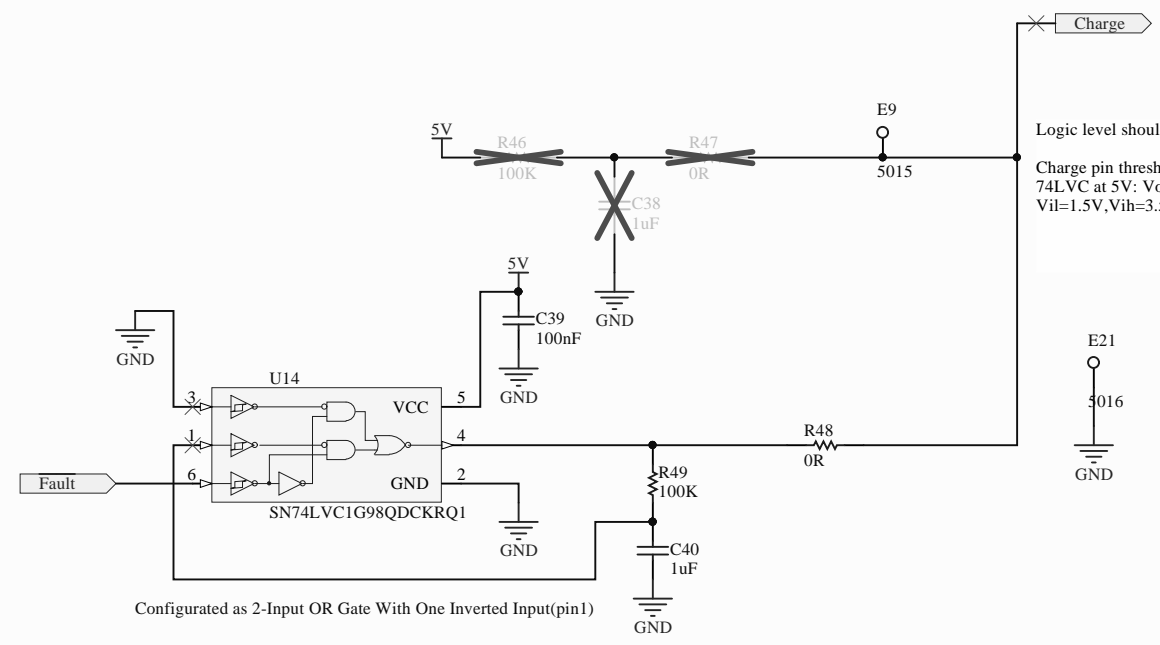
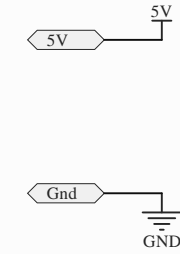
Resistor value (LT3751 datasheet, Table 2)

Vin: 8 to 80V
RVtrans: 80.6k
RVout: 80.6k
Rdcn: 36.5k

Rbg: $0.98 \cdot N \cdot RV_{out} / (V_{out,trip} + V_{diode}) = 715\Omega$
Rcs: 22mOhm (high power, 4.8A, 49.5W), 56mOhm (low power, 1.9A, 19.5W)

To Do:

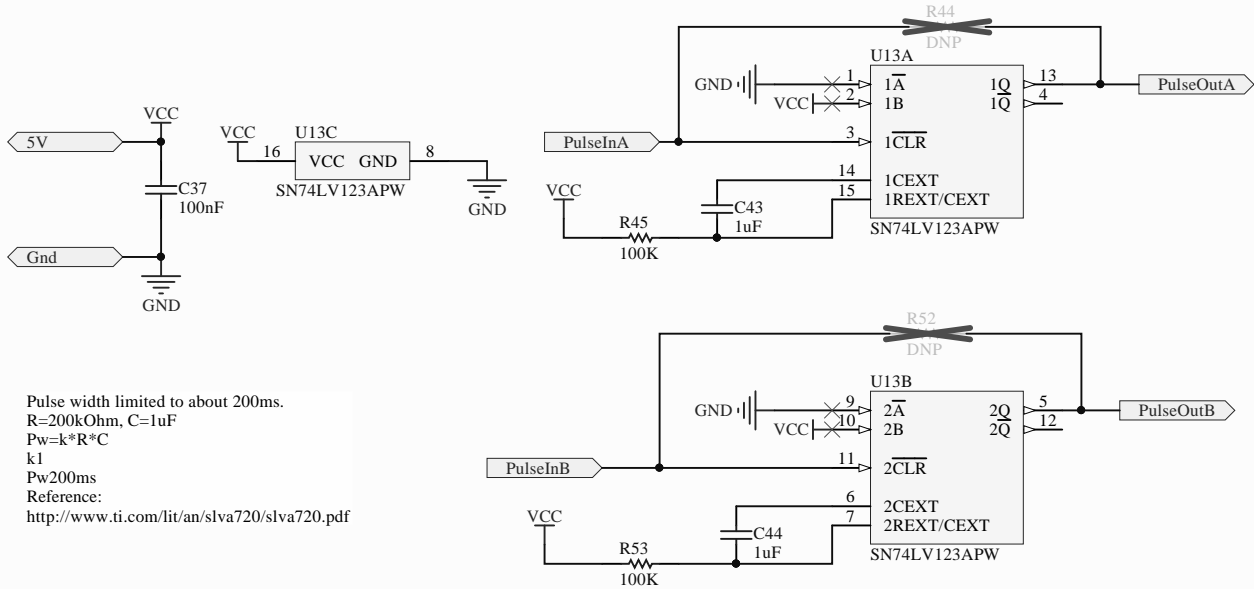
1. Update part number for all resistors
2. Check the T1 connection for all different variations.



Configured as 2-Input OR Gate With One Inverted Input(pin1)

At Vcc=5.5V:
Vi_hl=1.2V
Vi_lh=2.2V
tau=100k*1uF=0.1sec

Reset delay: 5V drop to 1.2V=0.14sec
Pulse width: 1.2V rise to 2.2V=0.031sec
max retry rate: 1/(0.031+ 0.061)



A

B

C

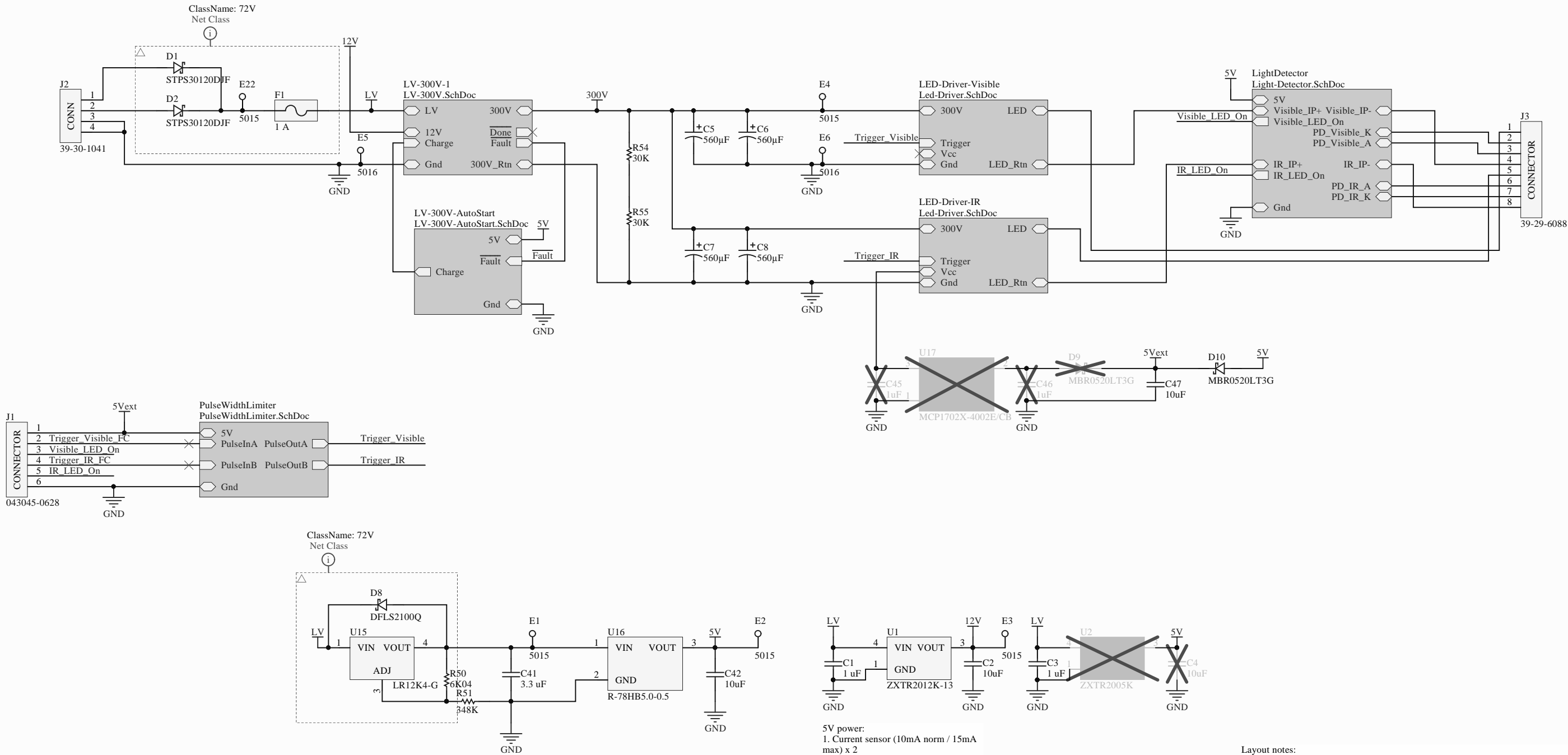
D

A

B

C

D



FD1	FD2	FD3
Fiducial	Fiducial	Fiducial
FID-40MIL-100MIL	FID-40MIL-100MIL	FID-40MIL-100MIL
FD4	FD5	FD6
Fiducial	Fiducial	Fiducial
FID-40MIL-100MIL	FID-40MIL-100MIL	FID-40MIL-100MIL

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