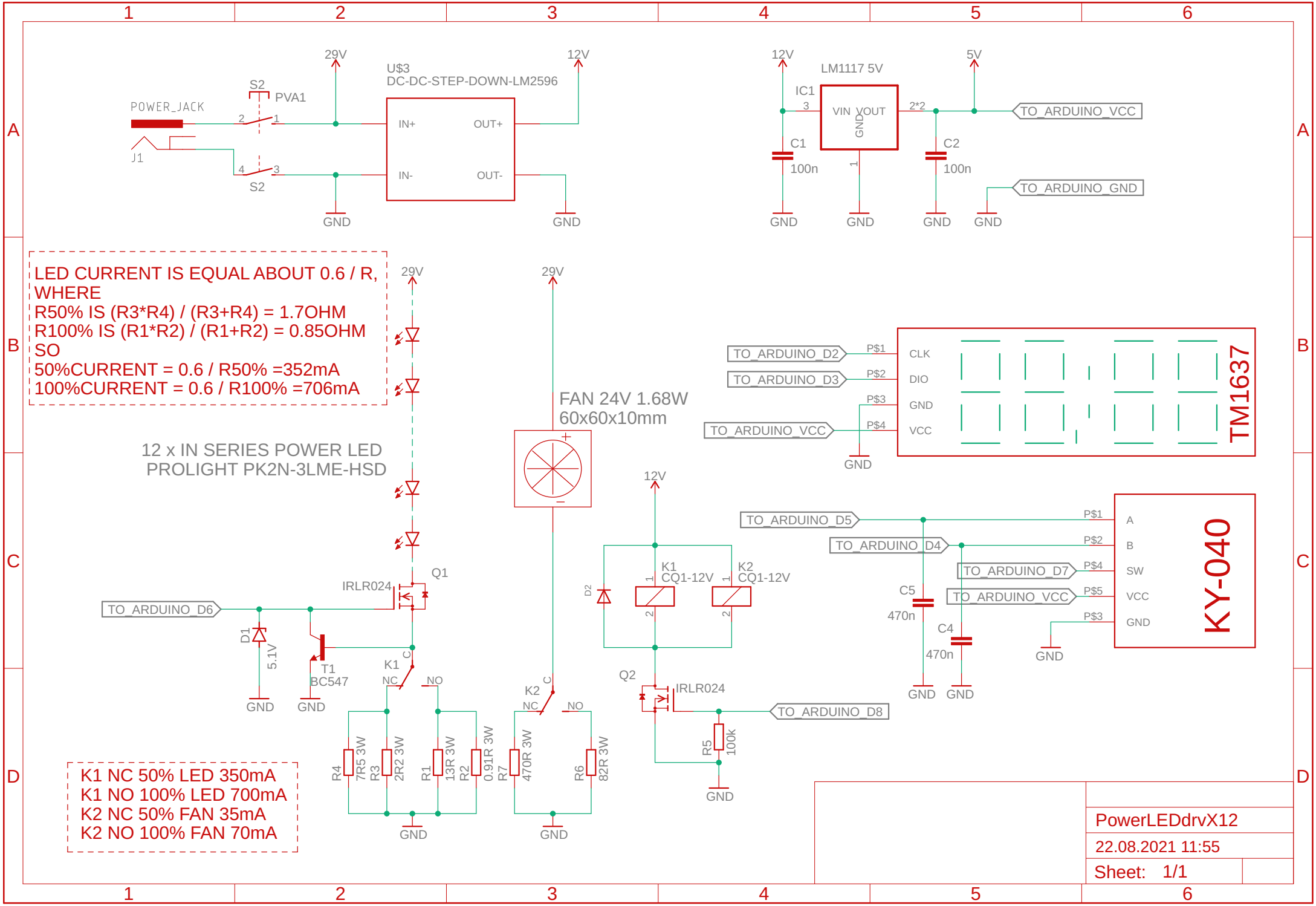
POWER_JACK
J1
S2
PVA1
29V
U$3
DC-DC-STEP-DOWN-LM2596
IN+
OUT+
IN-
OUT-
12V
GND
LM1117 5V
IC1
VIN
VOUT
GND
C1
100n
C2
100n
5V
TO_ARDUINO_VCC
TO_ARDUINO_GND
LED CURRENT IS EQUAL ABOUT 0.6 / R,
WHERE
R50% IS (R3*R4) / (R3+R4) = 1.7OHM
R100% IS (R1*R2) / (R1+R2) = 0.85OHM
SO
50%CURRENT = 0.6 / R50% =352mA
100%CURRENT = 0.6 / R100% =706mA
12 x IN SERIES POWER LED
PROLIGHT PK2N-3LME-HSD
FAN 24V 1.68W
60x60x10mm
TM1637
TO_ARDUINO_D2
TO_ARDUINO_D3
CLK
DIO
P$1
P$2
P$3
P$4
KY-040
TO_ARDUINO_D5
TO_ARDUINO_D4
TO_ARDUINO_D7
A
B
SW
VCC
C5
470n
C4
470n
Q1
IRLR024
TO_ARDUINO_D6
D1
5.1V
T1
BC547
K1
NC
NO
K2
K1
CQ1-12V
K2
CQ1-12V
D2
Q2
IRLR024
TO_ARDUINO_D8
R5
100k
R4
7R5 3W
R3
2R2 3W
R1
13R 3W
R2
0.91R 3W
R7
470R 3W
R6
82R 3W
K1 NC 50% LED 350mA
K1 NO 100% LED 700mA
K2 NC 50% FAN 35mA
K2 NO 100% FAN 70mA
PowerLEDdrvX12
22.08.2021 11:55
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