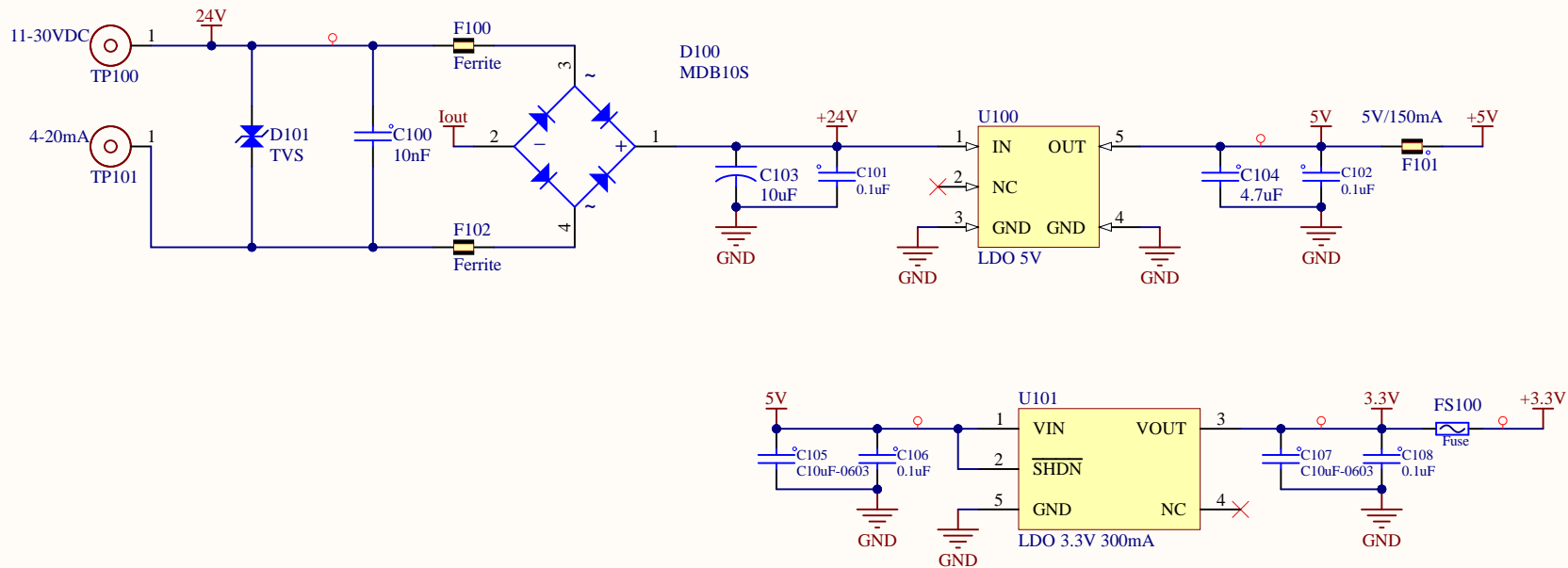
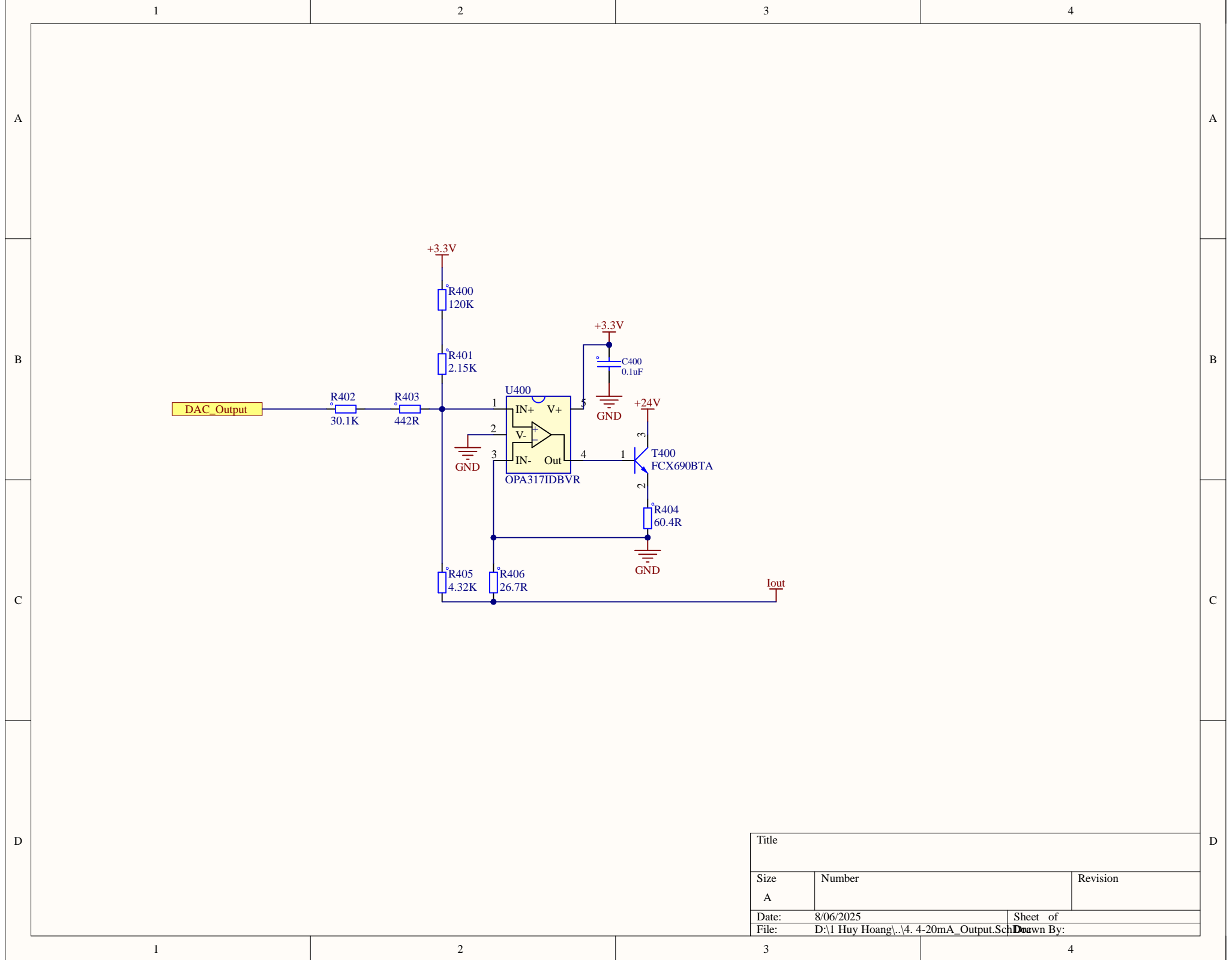


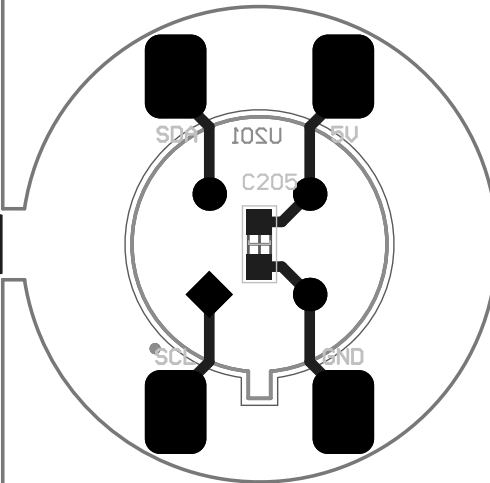
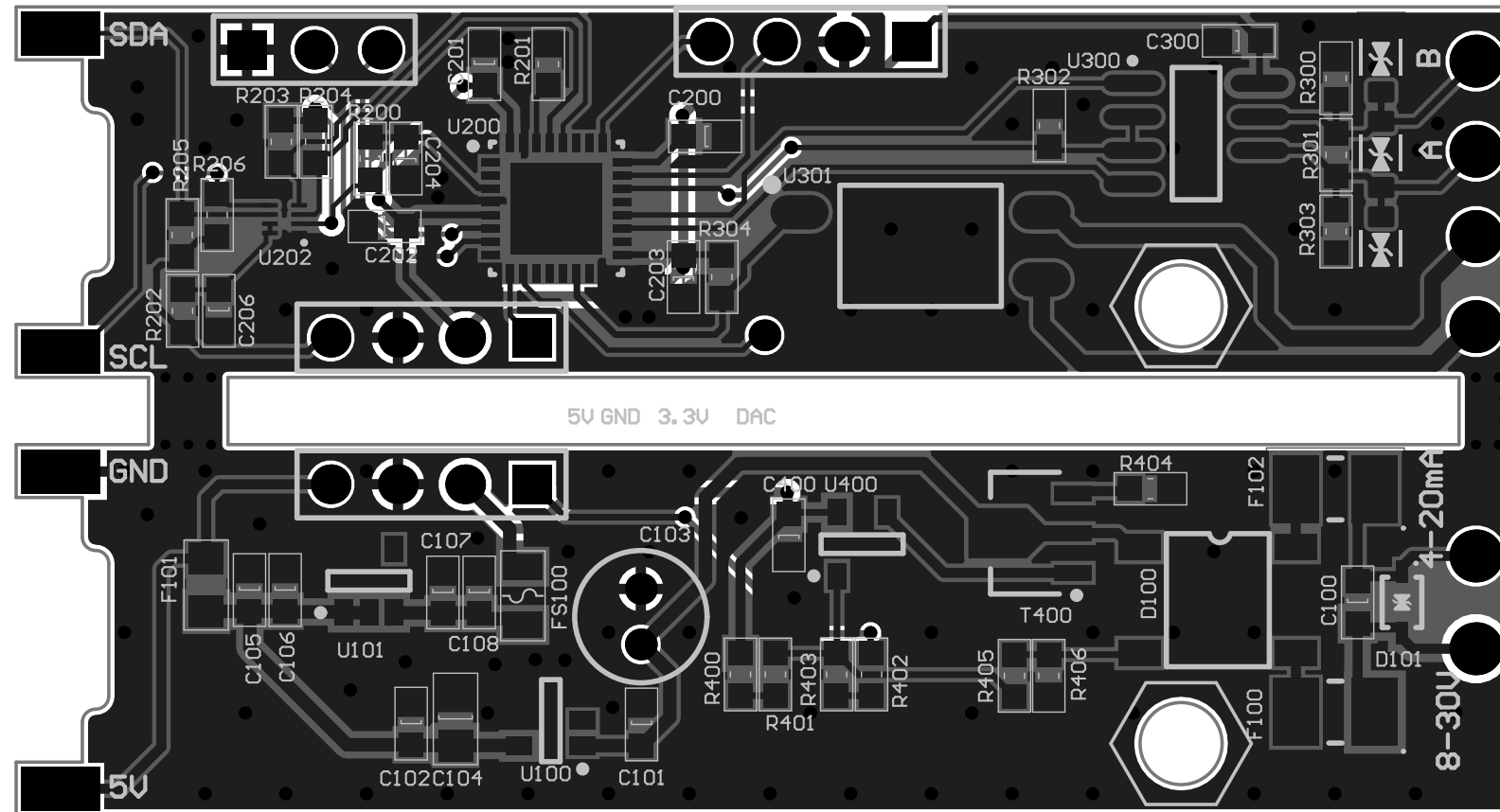
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Title		
Size	Number	Revision
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File:	D:\1 Huy Hoang\..1. Power.SchDoc	Drawn By:



PCB thickness 1mm



Comment	Description	Designator	Footprint	Subst	Quantity
10uF	C Series 0603 10 uF 100 V ±10% Tolerance X7R SMT Multilayer Ceramic Capacitor	C100	09603	C10uF_0603_100V	1
0.1uF	Multilayer Ceramic Capacitor (MLCC) / Cap Ceramic 0.1uF 250 V X7R 10% Pad SMD 0603 125uA 1/8 W40	C101, C102, C106, C108, C200, C201, C202, C203, C204, C205, C206, C300, C400	02603	00.1uF-0603	13
10uF	10uF 35V Aluminum Capacitor Radial Cap 2000Hrs @ 85°C	C103	CSx11	C10u-35V_hold	1
4.7uF	Ceramic Capacitor, Multilayer, Ceramic, 35V, 10% ±Tol, 10%, Tol. X7R, 15% TC, 4.7uF, Surface Mount, 0805	C104	02805	C4.7uF 0805 35V	1
C10uF-0603	10uF ±20% 16V Ceramic Capacitor XSR 0603 (1608 Metric)	C105, C107	02603	C10uF-0603	2
MDR105	Diode Rectifier Bridge Single 1kV 1A 4-Pin Micro DFP	D100	MDR105	Bridge_MDR105	1
TVS	5A9B/20u 75W 400W 40V Bidirectional 30V SOD-323 ESD and Surge Protection (TVS-ESD) ROHS	D101	TVS 75V (DSOD323- 7505C	TVS 75V	1
TVS SD05C-7	5V BIDIRECTIONAL TVS DIODE, 200 pF, 8uA5	D300, D301, D302	SOD323 BIDIRECTIONAL	TVS SD05C-7 Bidirectional	3
Ferrite	Ferrite Bead Power Chip 600Ohm 30% 100MHz 3A 42mOhm DCR 1210 Automotive 1/8	F100, F102	L1210	FERRITE BEAD 600 Ohm 3A	2
Ferrite bead 0805	FERRITE BEAD TS OHM0805 1/8	F101	L0805	Ferrite bead 0805	1
Fuse	PTC Resettable Fuse 50A 0.2s 12V 0.04 Ohm 3-Pin 0805 1/8	F5100	Fuse 0805	Fuse 750mA 12V	1
Jumper 3	Jumper 3	J200	HER1X3	JF3	1
Header 4	Header, 4-Pin	P200, P201, P202	HER1X4	Header 4	3
10k	RES SMD 10K OHM 1% 1/10W 0603	R200, R201, R205, R206, R300, R302, R303	R0603	R10K_0603	7
R1M	SMD Chip Resistor, 1 MOhm, ±5%, 100 mW, 0603 (1608 Metric), Thick Film, General Purpose	R202	R0603	R1M_0603	1
4.7k	Res Thick Film 0603 4.7K Ohm 1% 1/10W ±100ppm/°C Molded SMD Paper 1/8	R203, R204	R0603	R4.7k_0603	2
120R	Res Thick Film 0603 120 Ohm 1% 0.1W(1/10W) ±100ppm/°C Pad SMD 1/8	R301	R0603	R120R_0603_1%	1
1k	RES SMD 1K OHM 5% 1/10W 0603	R304	R0603	R1K_0603	1
120K	Res Thin Film 0603 120K Ohm 0.1% 0.1W ±25ppm/°C Molded SMD Punched Carrier 1/8	R400	R0603	R120K_0603_0.1%	1
2.15K	Res Thin Film 0603 2.15K Ohm 0.1% 0.1W(1/10W) ±25ppm/°C Pad SMD Automotive 1/8	R401	R0603	R2.15K_0603_0.1%	1
30.1K	Res Thin Film 0603 30.1K Ohm 0.1% 0.1W(1/10W) ±25ppm/°C Pad SMD Automotive 1/8	R402	R0603	R30.1K_0603_0.1%	1
442R	Res Thin Film 0603 442 Ohm 0.1% 0.1W(1/10W) ±25ppm/°C Pad SMD Automotive 1/8	R403	R0603	R442R_0603_0.1%	1
60.4R	RT 0603 RES 60.4 OHM 0805 (2012Metric) Chip Resistor ±0.1% ±25ppm/°C 60.4Ohm 0.125W 1/8W	R404	R0603	R60.4R_0805_0.1%	1
4.32K	Res Thin Film 0603 4.32K Ohm 0.1% 1/10W ±25ppm/°C Molded SMD SMD Punched Carrier 1/8	R405	R0603	R4.32K_0603_0.1%	1
26.7R	Res Precision Thin Film 26.7Ohm 0.1% 200mW 10ppm/°C 3- Pin 0805 SMD 1/8	R406	R0603	R26.7R_0603_0.1%	1
7CKA908TA	Single Bipolar Transistor, NPN, 45 V, 2 A, 2 W, SOT-89, 3 Pins, Surface Mount	T400	50T89-150P410X160 3N	NPN 7CKA908TA	1
TP40790		TP100, TP101, TP200, TP301, TP302, TP303	TP_40790	TP40790	4
TP4545		TP200, TP201, TP202, TP203, TP204, TP205, TP206, TP207, TP208	TP_4545	TP4545	9
LDO 5V	Automotive 150-mA, eFET battery (40-V), high-PSRR, low- I_Q , low-dropout voltage regulator	U100	50T23-5_L	TP578uPS00DOBVRQ1 LDO 5V	1
LDO 3.3V 300mA	IC: Linear Regulator Max. Input: 10V Output: 3.3V, 300mA Accuracy: 0.4% 50T23-5	U101	50T23-5_L	MCPI802T-330X/OT LDO 3.3V	1
STM32L072KBL6	32-bit low-power ARM Cortex-M0+ MCU with 128-Kbytes Flash, 32MHz CPU, USB	U200	PCFH50P500X00X05 J45-33N	STM32L072KBL6	1
Temperature Sensor	Temperature Sensor Digital, Infrared (IR) 40°C ~ 125°C 1-bb TO- 39	U201	MLX90614K3F-AAA- 000-TU	MLX90614ESF-AAA- 000-TU	1
LSF0102QER	Real bidirectional multi-voltage level translator B-K2SON - 40 to 125	U202	LSF0102QER	LSF0102QER	1
RS485	1/1 Transceiver Half RS422 RS485 B-S0C	U200	SC02H_N	SN65HVD72DR	1
Dp10	Optocoupler DC-IN, 1- CH Transistor OC-OUT 4-Pin PDIP Tube	U301	PC817x15MD	OP10_TUP285	1
OPA317DBVR	Low Offset, Rail-to- Rail I/O Operational Amplifier 5-SOT-23 - 40 to 125	U400	50T23-5_L	OPAMP_OPA317DBVR R	1