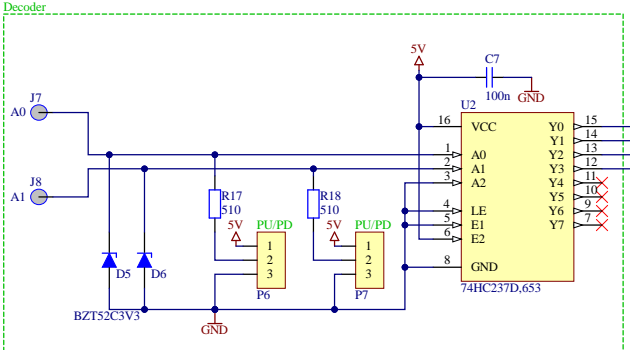
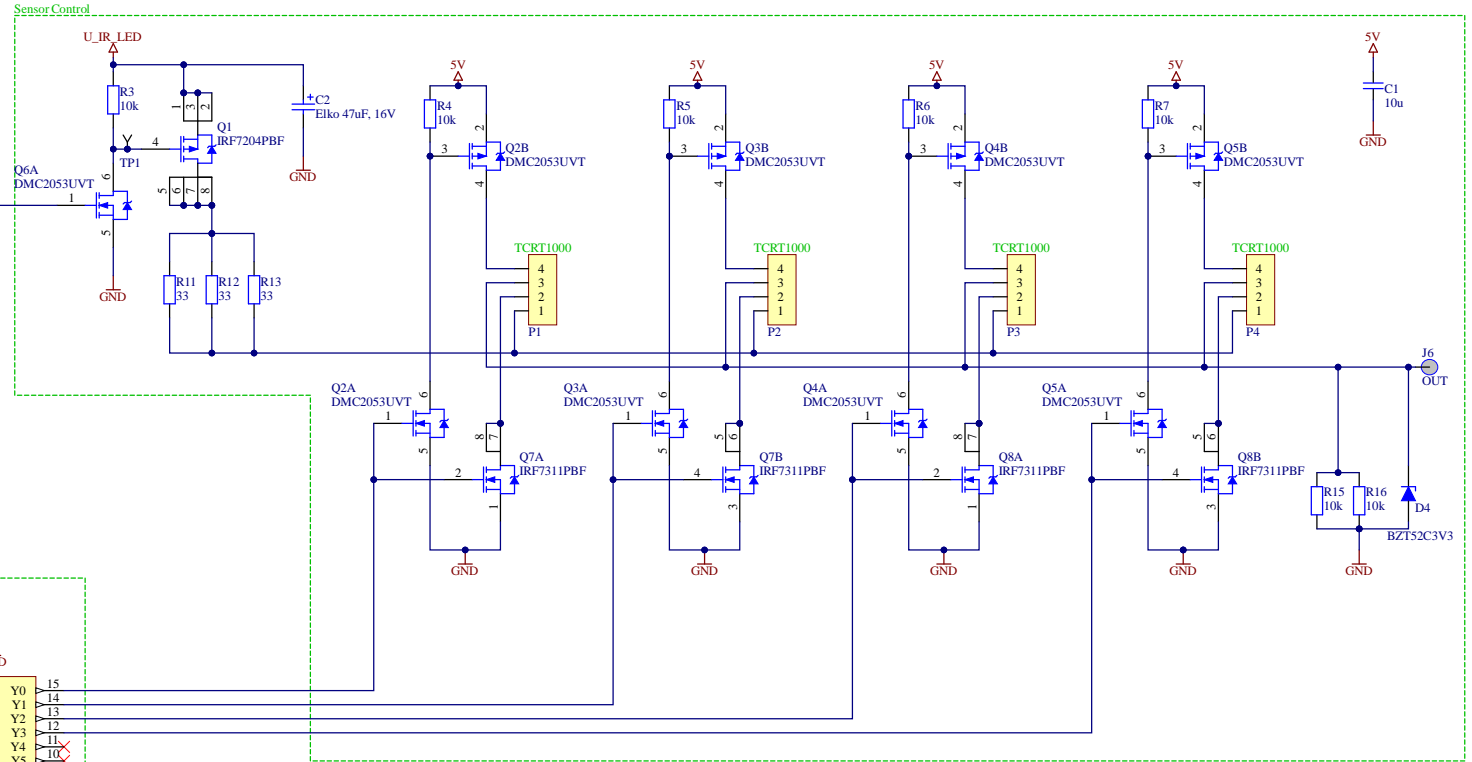
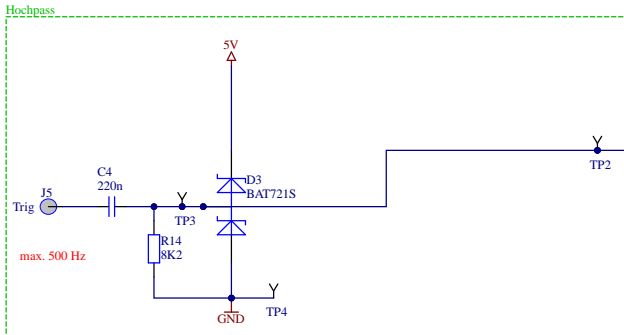


**Notes:**

- Select IR-LED voltage with jumper P5
- Design IR-LED forward current pulse 1 A to 2A (pulse length 80 us).
- Sensor trigger frequency max. 500 Hz (monitor power dissipation)
- Design forward current of D1 and D2 to be approximately 0.5 mA to 1 mA.
- Check sensor orientation on PCB using information from datasheet.
- TCRT1000 or HLC1395 (discontinued) sensors possible. Adjusting of R15 and R16 required due to differing gain.



- J9 Jumper with Handle
- J10 Jumper with Handle
- J11 Jumper with Handle
- T1 TCRT1000
- T2 TCRT1000
- T3 TCRT1000
- T4 TCRT1000



Title: Systemtechnikprojekt Spezialistenausbildung IR Sensor	
Description: für MicroZED	
Name: *	Checked: *
Size: A3	Rev Date: 10.01.2024
Date: 10.01.2024	Revision: V1.2
Time: 14:24:56	Sheet * of *
File: IR-Sensor_microZED.SchDoc	

