

GND		ADC	G35
GND		ADC	G36
GND		RST	EN
G23	MOSI	DACISPC	G25
G19	MISO	DIAC	G26
G18	SCK	3.3V	
G3	RXD0	TXD0	G1
G16	RXD2	TXD2	G17
G21	SDA	SCL	G22
G2	GPIO	GPIO	G5
G12	IIS_SK	IIS_WP	G13
G15	IIS_OUT	IIS_MK	G0
HPWR		IIS_IN	G34
HPWR		5V	
HPWR			

$$L = (V_{in} - V_{out}) * V_{out} / (V_{out} * f_{sw} * r * I_{out})$$

$$= (7.4 - 5.0) * 5.0 / (7.4 * 650000 * 0.3 * 1)$$

$$= 8.316 \mu$$

$$V_{out} = 0.765 * (1 + R_2 / R_3) = 5.0$$

$$R_2 / R_3 \cong 5.535$$

Sheet: Sensor_Module

GPI02 → IRLD_L → AN_IRLED_L → ADC1_IN0

GPI03 → IRLD_FL → AN_IRLED_FL → ADC1_IN1

GPI04 → IRLD_FR → AN_IRLED_FR → ADC1_IN2

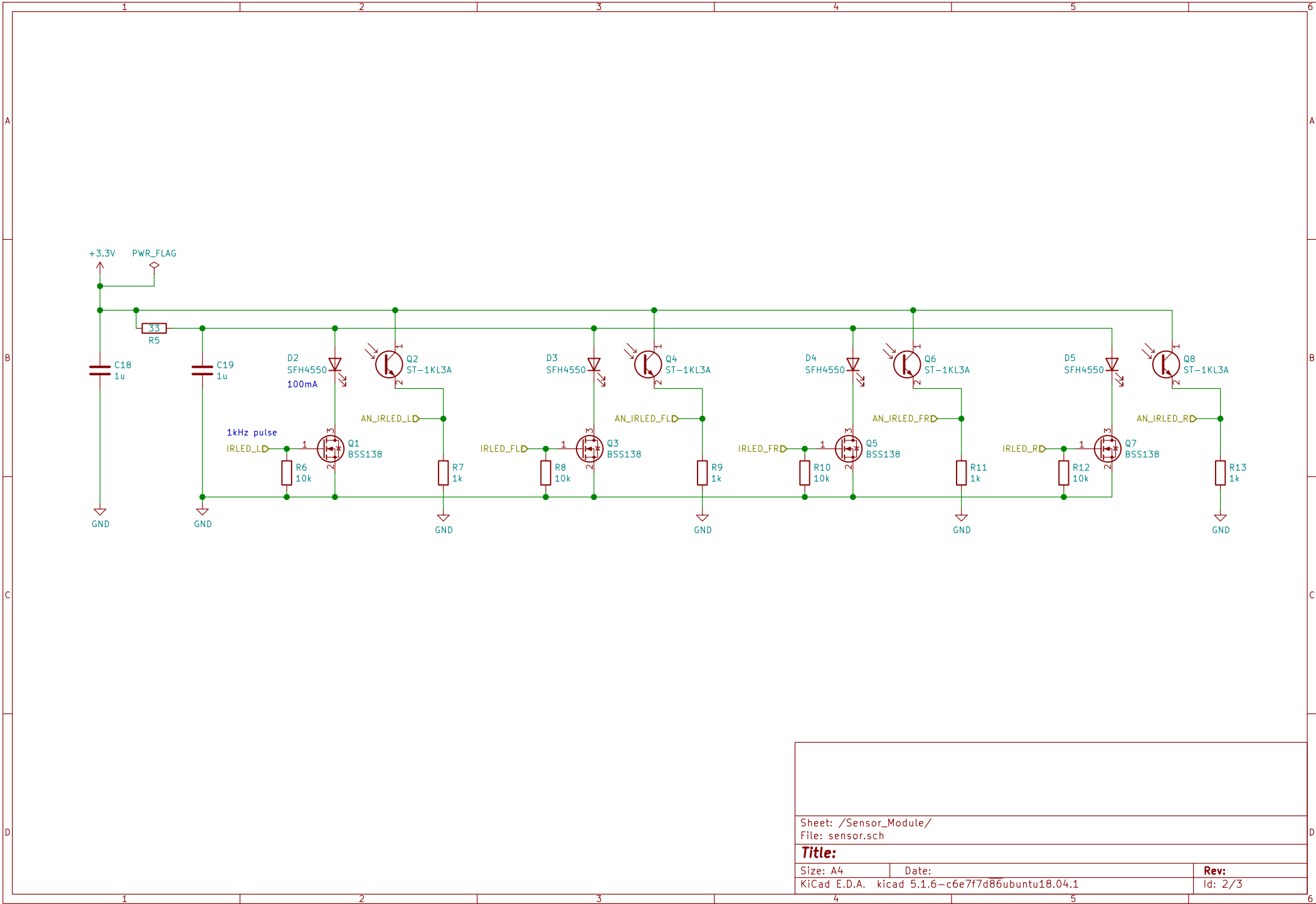
GPI05 → IRLD_R → AN_IRLED_R → ADC1_IN3

File: sensor.sch

Sheet: Motor_Module

TIM3_CH1 → AENBL ENC_A1D → TIM1_CH1
 GPIO6 → AIN ENC_A2D → TIM1_CH2
 TIM3_CH2 → BENBL ENC_B2D → TIM4_CH1
 GPIO7 → BIN
 GPIO8 → MODE

File: motor-driver.sch



Sheet: /Sensor_Module/
File: sensor.sch

Title:

Size: A4 Date:
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Rev:
Id: 2/3

