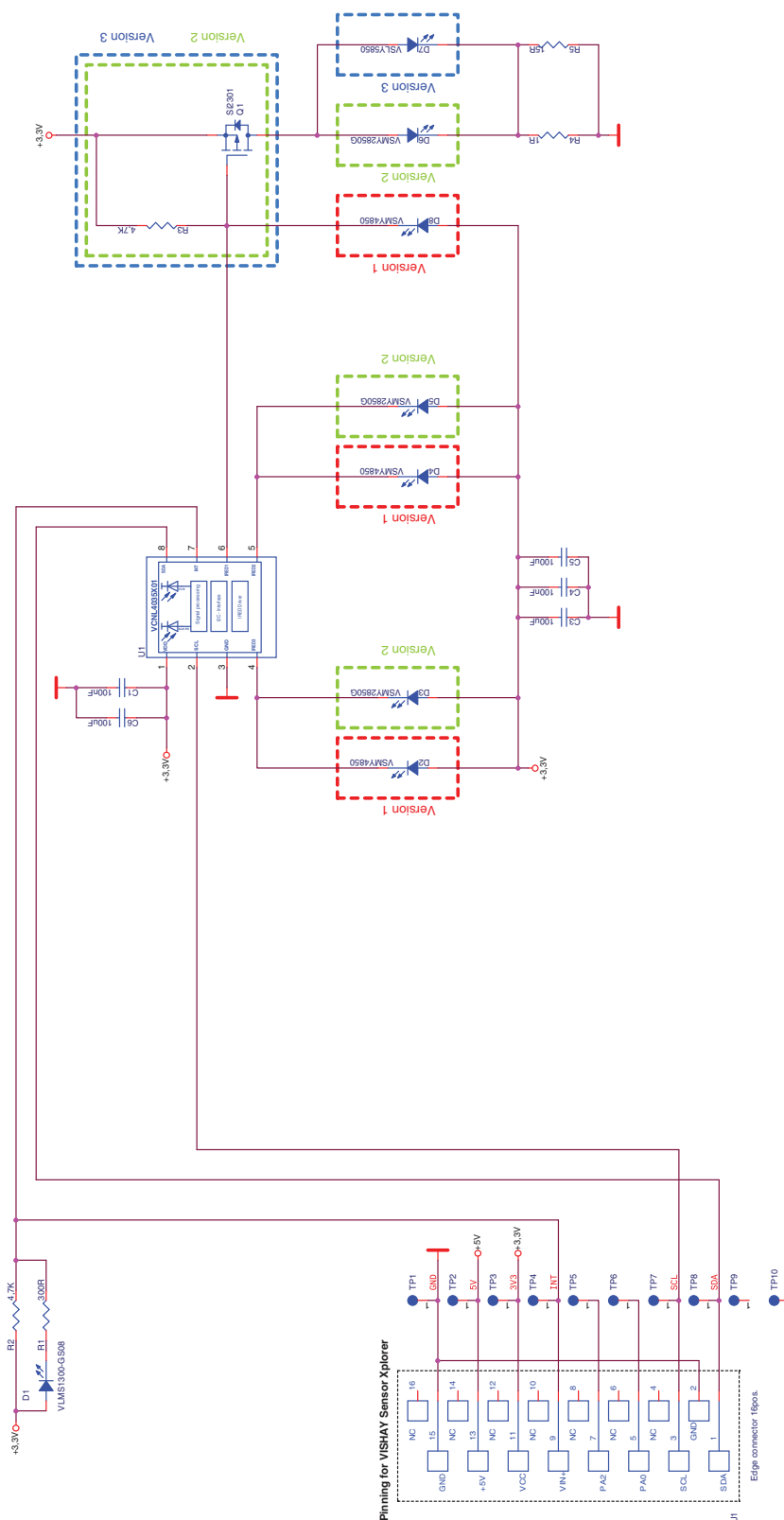


VCNL4035X01 Sensor Board

SCHEMATIC

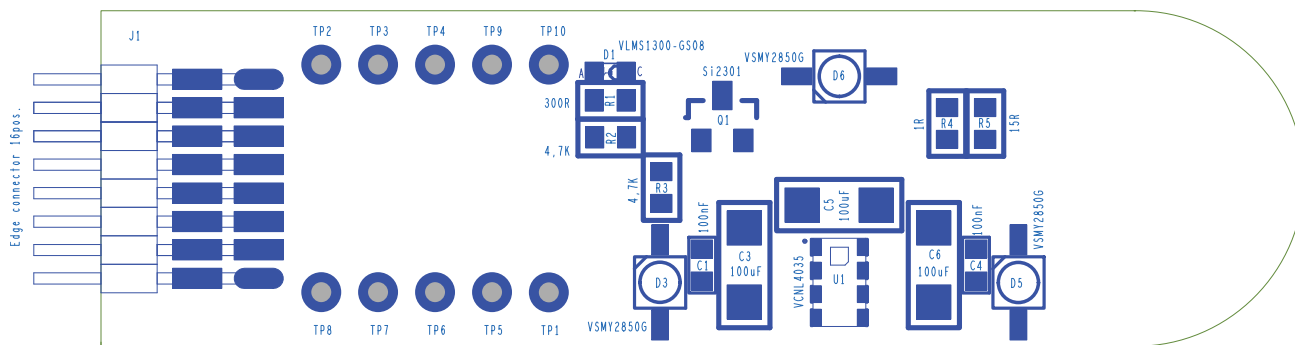


When using the VCNL4035X01 sensor board without Vishay SensorXplorer™, an additional pullup resistor (2.4 kΩ to 10 kΩ) on SDA and SCL is necessary.



ASSEMBLY

VCNL4035X01 sensor board LR, rev. 2.0



Assembly top, version 2

BILL OF MATERIALS					
ITEM	QUANTITY	REFERENCE	COMPONENT CLASS	VALUE	PACKAGE
1	1	C1	Capacitor NP	100 nF	SMC0805
2	1	C3	Capacitor NP	100 μ F	SMC1206
3	1	C4	Capacitor NP	100 nF	SMC0805
4	1	C5	Capacitor NP	100 μ F	SMC1206
5	1	C6	Capacitor NP	100 μ F	SMC1206
6	1	D3	LED	VSMY2850G	Dome lens
7	1	D5	LED	VSMY2850G	Dome lens
8	1	D6	LED	VSMY2850G	Dome lens
9	1	R1	Resistor	300 Ω	SMR0603
10	1	R2	Resistor	4.7 k Ω	SMR0603
11	1	R3	Resistor	4.7 k Ω	SMR0603
12	1	R4	Resistor	1 Ω	SMR0603
13	1	R5	Resistor	15 Ω	SMR0603
14	1	Q1	Transistor	Si2301	SMSOT23GSD
15	1	U1	Sensor	VCNL4035X01	SMD
16	1	J1	Edge connector	2 x 8 pos.	SMD header strip