Q1 BSH205G2R
SOT23

IN
OUT

R11
0402
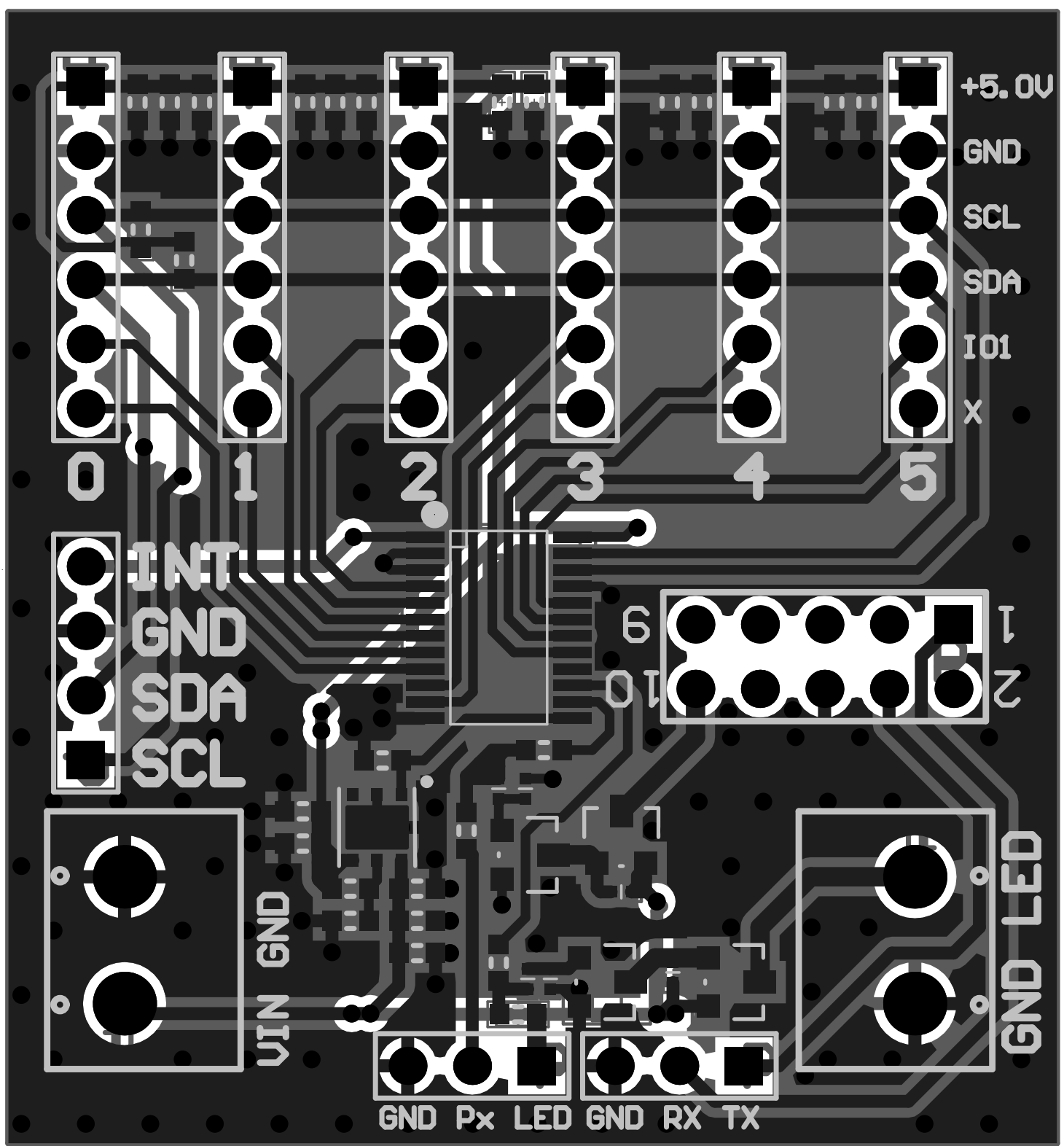22k

EN
R12
0402
2.2k

Q2
2N7002K-7
SOT23   SOT23

R13
0402
220k

Title:
*

Model:
EM1

Document Number:
21

Iss-Rev:
*

Date:
*

Author:
*

Checked by:
*

Approved by:
*

File name: power_switch_pmos_nmos.SchDoc

AGH

+5.0V

GND

SCL

SDA

IO1

X

0   1   2   3   4   5

INT

GND

SDA

SCL

9   1

10   2

VIN GND

GND LED

GND Px LED   GND RX TX

Comment	Description	Designator	Footprint	LibRef	Quantity
Ceramic X7R	Capacitor	C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C15, C17	C_0603_1608	C_1uF_25V_X7R_0603_10, C_100nF_50V_X7R_0603_5	14
Ceramic X5R	Capacitor	C13, C14, C16	C_0603_1608	C_10uF_16V_X5R_0603_20	3
ARK2	ARK Screw terminal, 2-Pin	J1, J2	J_ARK2	J_TB-5.0-P-2P	2
Goldpin	Header, 6-Pin	P1, P2, P3, P4, P5, P6	P_HEADER_1x6_2.54	P_HEADER_1x6_2.54	6
Goldpin	Header, 4-Pin	P7	P_HEADER_1x4_2.54	P_HEADER_1x4_2.54	1
Goldpin	Header, 3-Pin	P8, P9	P_HEADER_1x3_2.54	P_HEADER_1x3_2.54	2
Goldpin	Header, 10-Pin, Dual row	PIXY	P_HEADER_2x5_2.54	P_HEADER_2x5_2.54	1
BSH205		Q1_U_power_switch_pmos_nmos1, Q1_U_power_switch_pmos_nmos2	SOT23_TO236_SC59	QN_BSH205	2
2N7002K-7		Q2_U_power_switch_pmos_nmos1, Q2_U_power_switch_pmos_nmos2	SOT23_TO236_SC59	QN_2N7002K-7_60V_350mA	2
Resistor		R1, R2, R3, R8, R9	R_0603_1608	R_4.7k_0603_1, R_100k_0603_1, R_0R_0603_5	5
Resistor		R4, R5, R6, R7	R_NC_0603_1608	R_GENERIC_0603	4
Resistor		R11_U_power_switch_pmos_nmos1, R11_U_power_switch_pmos_nmos2, R12_U_power_switch_pmos_nmos1, R12_U_power_switch_pmos_nmos2, R13_U_power_switch_pmos_nmos1, R13_U_power_switch_pmos_nmos2	R_0402_1005	R_22k_0402_1, R_2.2k_0402_1, R_220k_0402_1	6
5 Low-Voltage 16-Bit I2C and SMBus Low-Power I/O Expander with Interrupt Output and Configuration Registers	Low-Voltage 16-Bit I2C and SMBus Low-Power I/O Expander with Interrupt Output and Configuration Registers	U1	TSSOP24_8x8	U_TCA9535DBR	1
LD39050PUR		U2	DFN6_3x3	VL_LD39050PUR	1