

1

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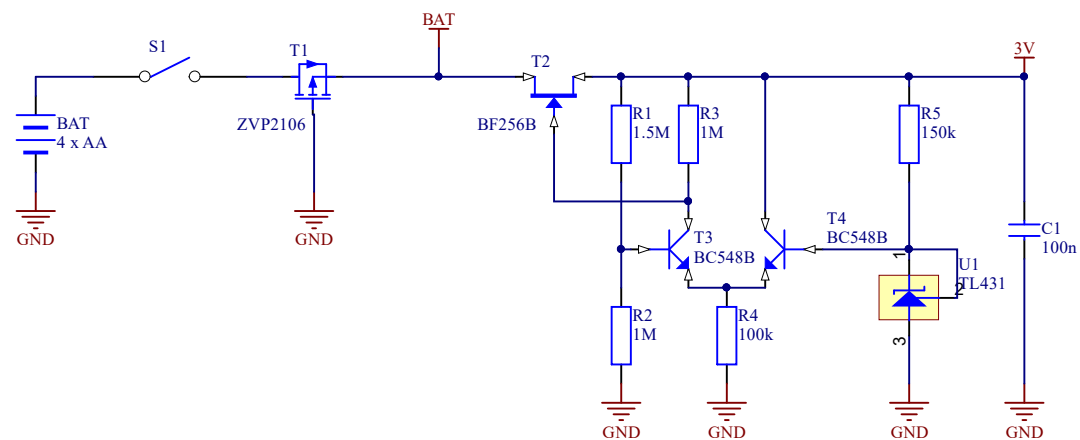
4

A

B

C

D



Main Board Power

Project: SmartBoard

Size: A4

Rev.: v1

Drawn by: M. Schwegler

Sheet 1 of 2

Date: 13.03.2017

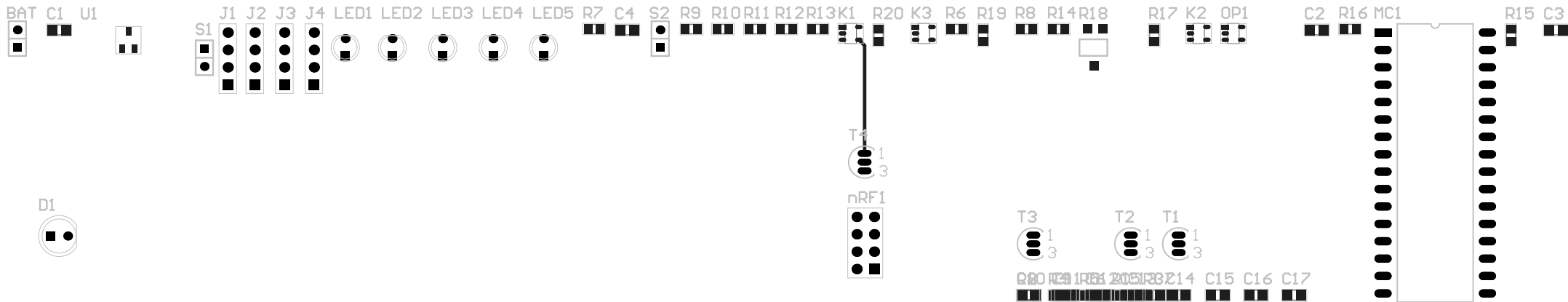
File: MainBoard Power.SchDoc

1

2

3

4



| Comment | Description | Designator | Footprint | LibRef | Quantity |
|-------------|---------------------------|--|----------------------------|---------------------------|----------|
| 4 x AA | | BAT | SIP2 | BATTERY | 1 |
| 100n | Normaler Kondensator | C1, C2, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17 | 0805_C | C? | 16 |
| 33n | Normaler Kondensator | C3 | 0805_C | C? | 1 |
| SFH 213 FA | Photo_Diode_1A_2K | D1 | LED_THT_5mm_RM_2.54 mm | Photo_Diode_1A_2K | 1 |
| Value | | J1, J2, J3, J4 | CON_THT_4P_RM2.54 | CON_4P | 4 |
| MCP6561R | | K1, K2 | SOT23-5 | OPAMP | 2 |
| SN74LVC1G14 | | K3 | SOT23-5 | schmitt | 1 |
| Value | | LED1, LED2, LED3, LED4, LED5 | LED_THT_3mm_RM_2.54 mm | LED | 5 |
| TinyK20 | | MC1 | DIP32 | TinyK20 | 1 |
| nRF24L01+ | | nRF1 | CON_THT_2x4P_RM2.54_Stiftl | Bluefruit | 1 |
| MCP6001R | | OP1 | SOT23-5 | OPAMP | 1 |
| 1.5M | Normaler Widerstand | R1 | 0805_R | R? | 1 |
| 1M | Normaler Widerstand | R2, R3 | 0805_R | R? | 2 |
| 100k | Normaler Widerstand | R4 | 0805_R | R? | 1 |
| 150k | Normaler Widerstand | R5 | 0805_R | R? | 1 |
| 180k | Normaler Widerstand | R6 | 0805_R | R? | 1 |
| 330k | Normaler Widerstand | R7, R16 | 0805_R | R? | 2 |
| 3.3M | Normaler Widerstand | R8 | 0805_R | R? | 1 |
| 1k | Normaler Widerstand | R9, R10, R11, R12, R13 | 0805_R | R? | 5 |
| 10M | Normaler Widerstand | R14, R15 | 0805_R | R? | 2 |
| 10k | Normaler Widerstand | R17 | 0805_R | R? | 1 |
| 200k | Variabler Widerstand | R18 | Poti | R? {RPAR} | 1 |
| 4.7k | Normaler Widerstand | R19 | 0805_R | R? | 1 |
| 220k | Normaler Widerstand | R20 | 0805_r | R? | 1 |
| SW SPST | | S1 | SIP2 | SW SPST | 1 |
| S2 | | S2 | SIP2 | SW-PB | 1 |
| ZVP2106 | MOSFET-P 1G,2D,3S (Diode) | T1 | TO-92 | MOSFET-P 1G,2D,3S (Diode) | 1 |
| BF256B | N-channel junction fet | T2 | TO-92 | J? JFET-N | 1 |
| BC548B | NPN Bipolar Transistor | T3, T4 | TO-92 | Q? NPN | 2 |
| TL431 | Voltage Shunt Ref. Adju | U1 | SOT23-3 | LM4041ADJ | 1 |
| | | | | | |