

The circuit diagram shows an ATtiny85 microcontroller (U1) connected to a 3V battery (B1) via a jumper JP1. The microcontroller's pins are configured as follows:

- VCC**: Pin 8, connected to +3V.
- GND**: Pin 4, connected to ground.
- PB0/AIN0**: Pin 5, connected to PB0:MOSI.
- PB1/AIN1**: Pin 6, connected to PB1:MISO.
- PB2/ADC1**: Pin 7, connected to PB2:SCK.
- PB5/ADC0**: Pin 1, connected to PB5:RST.
- PB4/ADC2**: Pin 3, connected to GND.
- PB3/ADC3**: Pin 2, connected to GND.

A J1 connector provides ISP programming pins: 2Q (MISO), 4Q (MOSI), 6Q (GND), 1Q (VCC), 3Q (SCK), and 5Q (RST).

The output stage consists of five parallel channels, each driven by a microcontroller pin through a 33Ω resistor (R1-R5). Each channel contains two LEDs (D1-D5, D9-D10, D11-D14, D15-D16, D17-D18, D19-D20) connected in series. The forward voltage drop (V_d) across the LEDs is specified as 1.6V to 1.8V.

PCB Placement Legend:

- 0805 SMD: Resistor symbol.
- T1 LED: LED symbol.
- Jumper: Two-pin symbol labeled 1 and 2.
- PADs: Pad symbol labeled 1 and 2.

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