

power supply

The diagram illustrates a power supply circuit for an LED display driver. It features two voltage regulators: a 5V regulator (U2, SX1308) and a 3.3V regulator (U3, AMS1117-3.3). The 5V regulator is powered by a barrel jack (J1) and provides output to the LED display driver (J6). The 3.3V regulator is powered by the 5V line and provides output to the LED display driver. Various passive components like capacitors (C1, C2, C3, C4, C6), resistors (R6), and a diode (D2) are used for filtering and protection.

[illegible]

BUZZER

The diagram shows a buzzer circuit. The input voltage (VIN) is connected to a 47uF capacitor (C13) and a 100nF capacitor (C14), both connected to ground (GND). The circuit then passes through a 1K resistor (R28) to a buzzer (BZ1). The buzzer is connected to a 555 timer (U1) at pin 1. Pin 2 of the timer is connected to a 10K resistor (R29) to GND. Pin 3 of the timer is connected to GND. The output of the buzzer is labeled BUZZER.

DS18B20 temperature sensor

U4
DS18B20

+3.3V

3

2

1

GND

R9
4.7K

OneWire

GND

[illegible]

VFD voltage converters

The diagram shows three push buttons connected to a microcontroller. Each button has a pull-up resistor (10K) to GND and a 100nF capacitor to GND. The buttons are labeled SW2 SELECT, SW3 PLUS, and SW4 MINUS. The microcontroller pins are labeled BUTTON_SELECT, BUTTON_PLUS, and BUTTON_MINUS.