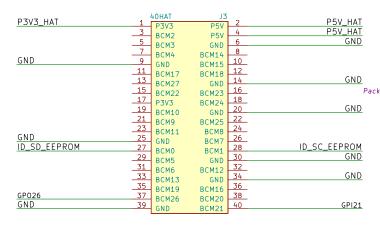
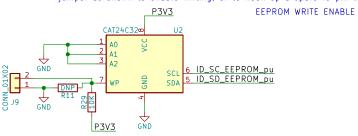
This is based on the official Raspberry Pi spec to be able to call an extension board a HAT. https://github.com/raspberrypi/hats/blob/master/designguide.md

## 40-Pin HAT Connector



## HAT EEPROM

The HAT spec requires this EEPROM with system information to be in place in order to be called a HAT. It should be set up as write protected (WP pin held high), so it may be desirable to either put a jumper as shown to enable writing, or to hook up a spare 10 pin to do so.



## **Pullup Resistors**

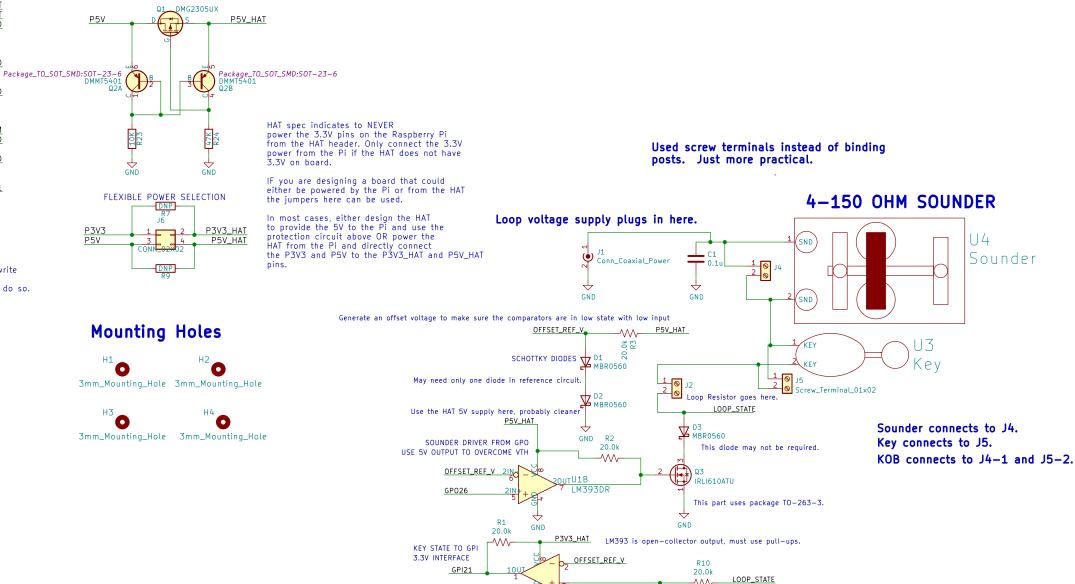
These are just pullup resistors for the I2C bus on the EEPROM. The resistor values are per the HAT spec.



## 5V Powered HAT Protection

This is the recommended 5V rail protection for a HAT with power going to the Pi.

See https://github.com/raspberrypi/hats/blob/master/designguide.md#back-powering-the-pi-via-the-j8-gpio-header



U1A LM393DR

D4 1N914WT

GND