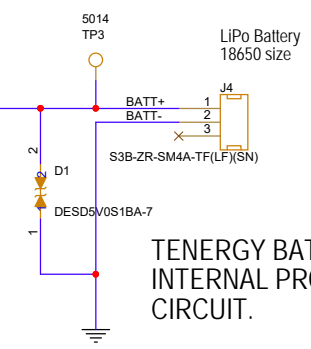


BIN is the indication that Battery has been inserted -- will be controlled by host. battery fuel gauge chip transitions from initialization to normal state when it sees a battery as inserted (also has I2C commands to do the same thing, but using the pins in case the microcontroller power goes out before it has a chance to send the removed command)

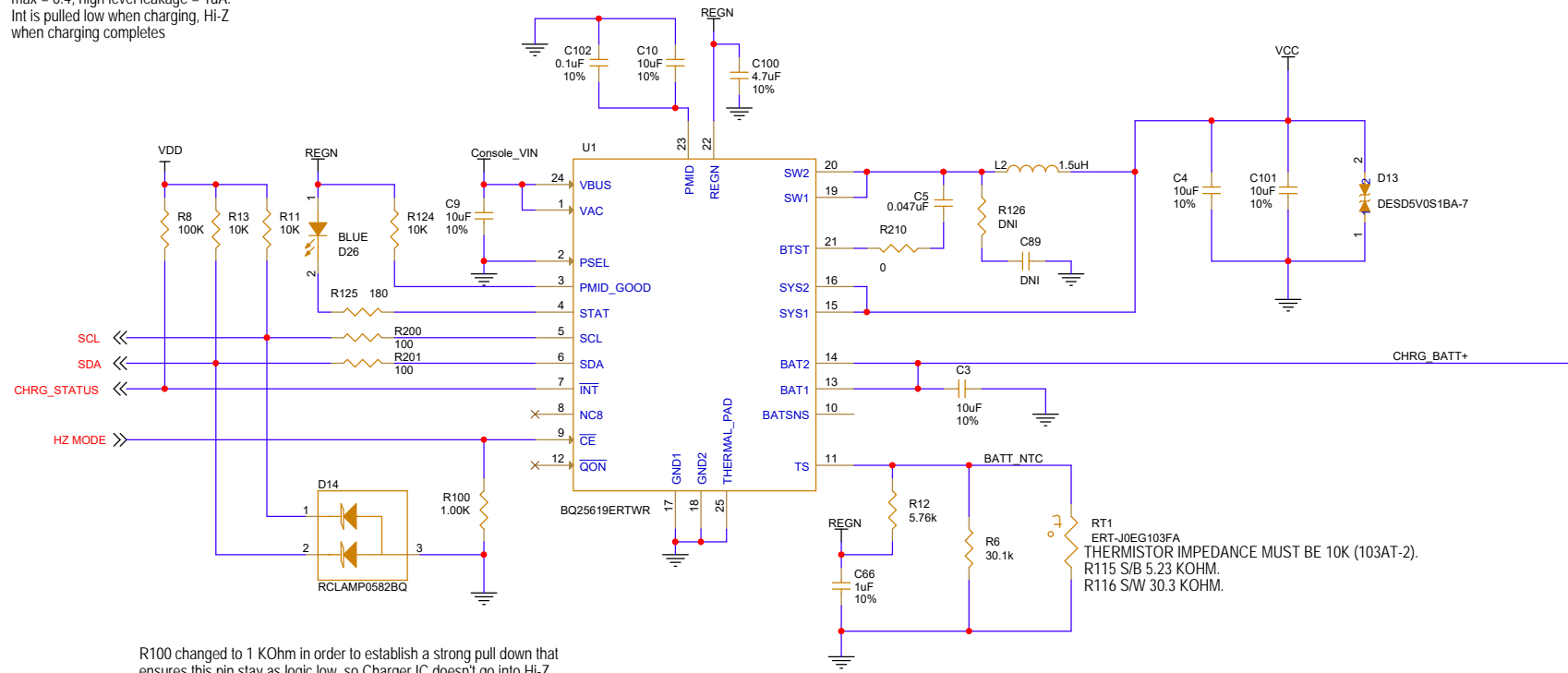
Powers off of the Battery, VDD is internal 1.8V regulator



TENERGY BATTERY HAS INTERNAL PROTECTION CIRCUIT.

VDD is 2.5 V, I2C compatible with lower voltages (high threshold = 1.3V min, low threshold = 0.4 V max, output low = 0.4V)

HZMode is internally pulled down with 100k. Int is open drain, low level max = 0.4, high level leakage = 1uA. Int is pulled low when charging, Hi-Z when charging completes



R100 changed to 1 KOhm in order to establish a strong pull down that ensures this pin stay as logic low, so Charger IC doesn't go into Hi-Z mode, when U5 initially power up. GPIO pins of micro-controller, U4 and U5, are default configured as input with 20KOhm pull-up enabled.

RT1 ERT-J0EG103FA THERMISTOR IMPEDANCE MUST BE 10K (103AT-2). R115 S/B 5.23 KOHM. R116 S/W 30.3 KOHM.