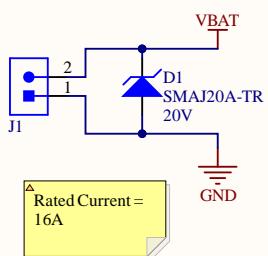


A

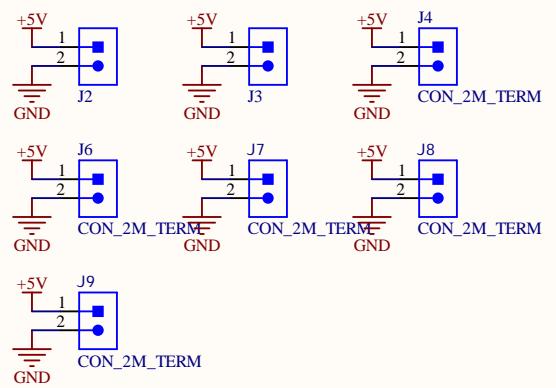
A

REPLACE TVS DIODE

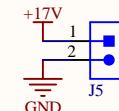
24V Input



5V Output



17V Output



**CHANGE +5V to 5V
ADD 0.1uF 25V capacitor for each output connector
ADD MPN TO EACH CONNECTOR**

CHANGE +17V to 17V

WHY INCLUDE 16AWG IF CONNECTOR IS ONLY

△ Mates with
0039012020
0039013022
0039012025

△ 22-24
△ AWG

△ Associated crimps:
0039000038 (18-24 AWG)
0039000038 (22-28 AWG)
0039000077 (16 AWG)

Title Connectors

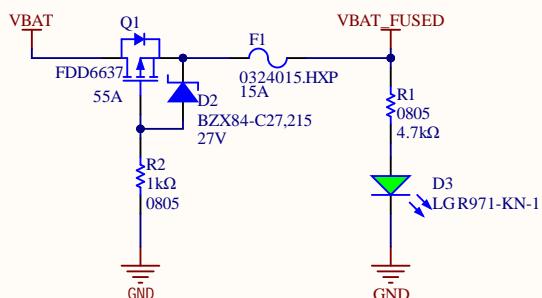
Size: Letter Drawn By: Adrianna Ascalon

Date: 6/4/2020 Sheet 1 of 3

File: C:\Users\lance.bantoto\MarsRover2021-hardware\Projects\Power Distribution Board\Rev1\SH1 - CONNECTORS.dwg

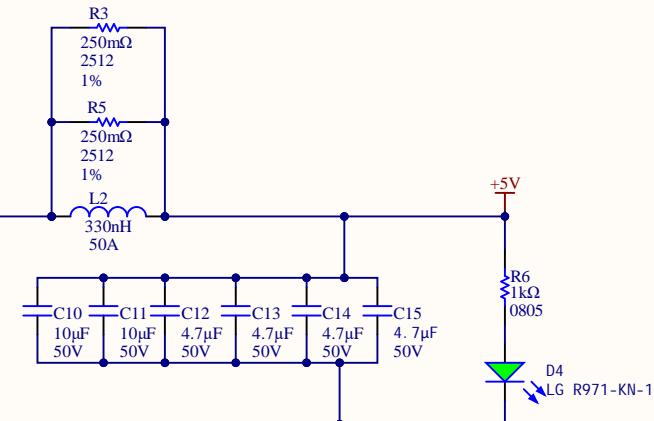
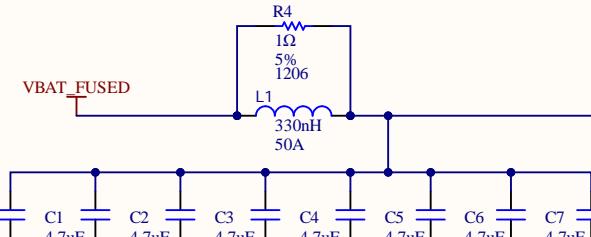


Reverse Polarity Protection



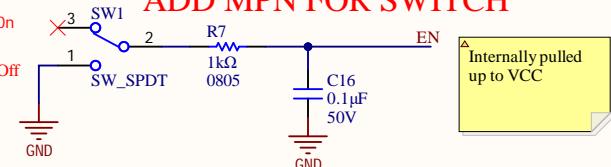
ANNOTATE BUCK CONVERTER AS PER STANDARDS

Buck Converter ratings:
Input voltage range: 9-50V
Output voltage: 5.0V
Max output current: 16A
Peak efficiency: 88%
Output voltage ripple: 277mVpp

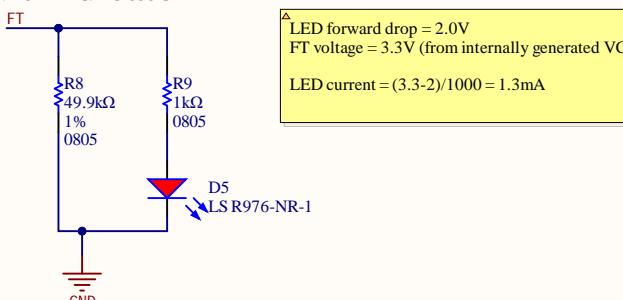


ADD VOLTAGE RATING FOR CAPS

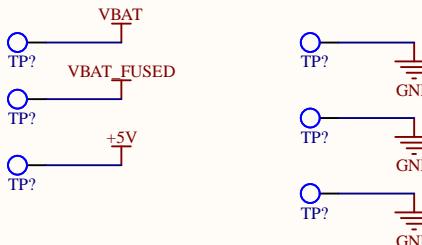
On/Off Switch
ADD MPN FOR SWITCH



Fault Indicator



MOVE NON-GND TPs to SIGNALS



Title 5V Vicor Power Supply		UW Robotics 200 University Avenue Waterloo Ontario Canada N2L 3G6	UW ROBOTICS TEAM
Size: Letter	Drawn By: Adrianna Ascalon		
Date: 6/4/2020	Sheet 2 of 3		
File: C:\Users\lance.bantoto\MarsRover2021-hardware\Projects\Power Distribution Board\Rev1\SH2 - 5V Vicor Power Supply.sch			

ANNOTATE BUCK CONVERTER AS PER STANDARDS

Buck Converter ratings:
 Input voltage range: 18-24V
 Output voltage: 17V
 Max output current: 4A
 Peak efficiency: 94.8%
 Output voltage ripple: 19.45mVpp

ADD SWITCH + DEBOUNCE CIRCUIT FOR THIS BUCK SO WE CAN POWER CYCLE JET

