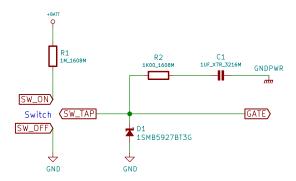
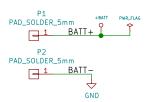
# **Switching Circuit**

provides soft starting and fast cut with user supplied switch

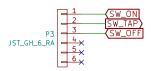


## Battery Pack Connection



### **Switch Connector**

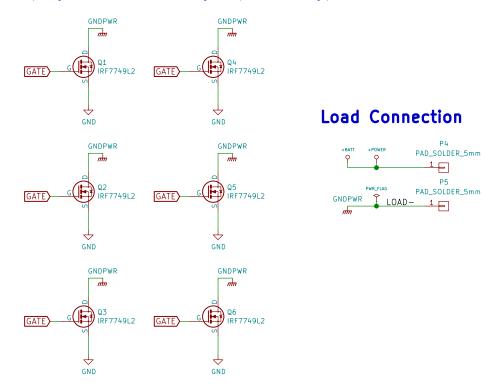
Switch is provided on connector for easier access. Allows external LED for state indication.



### Status LED

#### **Power Fets**

We use overly powerful fets to provide lower heat output in normal operation. This also allows for high transient currents without damaging the switch. DirectFET packages are used due to metal casing for improved heatsinking performance.



#### Notes

Use copper heatsink for free-air convection during continuous high loads. Ensure pads have vias for thermal/structural relief on PCB

Follows discussion in https://endless-sphere.com/forums/viewtopic.php?f=3&t=40142

Requires heatsinks installed for free—air convection Rated to 60V DC, approx 200A continuous

Scott Rapson

Sheet: /

File: antispark-pcb.sch

Title:	Anti-S	park	Fet S	Switch	Board

 Size: A4
 Date: 2017-09-28
 Rev: 1.0

 KiCad E.D.A. kicad no-vcs-found
 Id: 1/1