

| | | | | | | |
|---|--|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | |
| A | <div> <div> <div>Sheet: Sheet5DEB9B6E</div> <div>File: diyBMSv4-Leaf_pos.sch</div> </div> <div> <div>Sheet: Sheet5DEB9BAA</div> <div>File: diyBMSv4-Leaf_neg.sch</div> </div> </div> | | | | | A |
| B | | | | | | B |
| C | <div> <div>Sheet: Power and Comm</div> <div>File: file5DF129FA.sch</div> </div> | | | | | C |
| D | <div> <div> <div>Yoyodyne Consulting Inc.</div> <div>George Boudreau</div> <div> <div>Sheet: /</div> <div>File: diyBMS-Leaf.sch</div> <div> <div>Title: diyBMS-LEAF</div> <div> <div>Size: USLetter</div> <div>Date: 2020-03-10</div> </div> <div> <div>KiCad E.D.A. kicad 5.1.5-52549c584ubuntu18.04.1</div> <div>Rev: 1.00</div> </div> <div>Id: 1/4</div> </div> </div> </div> </div> | | | | | D |
| | 1 | 2 | 3 | 4 | 5 | |

BMS for the +ve Leaf terminal

PA7 has a higher current output than other pins

AREF input acts like a resistor of 32k from AREF to GND

Blue LED and Resistor are OPTIONAL!

Output voltage 1.25V for input of 4.398V (max)

External temperature sensor

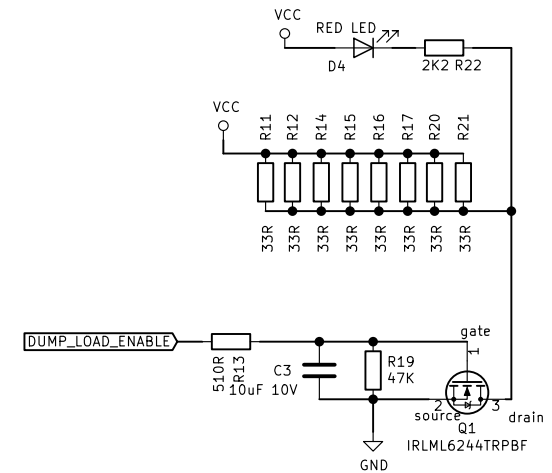
8 x 33 ohm resistors in parallel = 4.1 ohms.
2513 package is good for 1 watt or 8 watts total dissipation.
Plenty for the approx 1amp/4 watt dump.

Yoyodyne Consulting Inc.
George Boudreau

Sheet: /Sheet5DEB9B6E/
File: diyBMSv4-Leaf_pos.sch
Title: diyBMS-LEAF

| | | |
|---|------------------|-----------|
| Size: USLetter | Date: 2020-03-10 | Rev: 1.00 |
| KiCad E.D.A. kicad 5.1.5-52549c584ubuntu18.04.1 | Id: 2/4 | |

8 x 33 ohm resistors in parallel = 4.1 ohms.
2513 package is good for 1 watt or 8 watts total dissipation.
Plenty for the approx 1amp/4 watt dump.



Yoyodyne Consulting Inc.
George Boudreau

Sheet: /Sheet5DEB9B6E/
File: diyBMSv4-Leaf_pos.sch

Title: diyBMS-LEAF

| | |
|----------------|------------------|
| Size: USLetter | Date: 2020-03-10 |
|----------------|------------------|

| | |
|---|------------------|
| Size: 52549c584ubuntu18.04.1 | Date: 2020-05-10 |
| KiCad E.D.A. kicad 5.1.5-52549c584ubuntu18.04.1 | |

Rev: 1.00

Id: 2/4

PA7 has a higher current output than other pins

AREF input acts like a resistor of 32k from AREF to GND

Blue LED and Resistor are OPTIONAL!

Output voltage 1.25V for input of 4.398V (max)

8x 31.6 ohm resistors in parallel = 3.95 ohms.
2513 package is good for 1 watt or 8 watts total dissipation.
Plenty for the approx 1amp/4 watt dump.

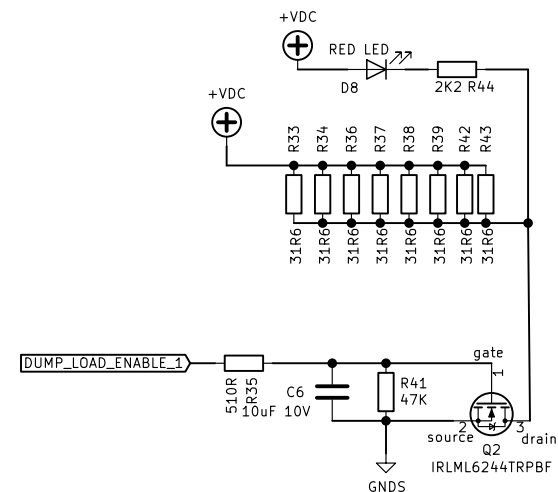
Yoyodyne Consulting Inc.
George Boudreau

Sheet: /Sheet5DEB9BAA/
File: diyBMSv4-Leaf_neg.sch

Title: diyBMS-LEAF

Size: USLetter | Date: 2020-03-10 | Rev: 1.00
KiCad E.D.A. | kicad 5.1.5-52549c584ubuntu18.04.1 | Id: 3/4

8x 31.6 ohm resistors in parallel = 3.95 ohms.
2513 package is good for 1 watt or 8 watts total dissipation.
Plenty for the approx 1amp/4 watt dump.



Yoyodyne Consulting Inc.
George Boudreau

Sheet: /Sheet5DEB9BAA/
File: diyBMSv4-Leaf_neg.sch

Title: diyBMS-LEAF

| | |
|----------------|------------------|
| Size: USLetter | Date: 2020-03-10 |
|----------------|------------------|

| | |
|--------------|------------------------------------|
| KiCad E.D.A. | kiCad 5.1.5-52549c584ubuntu18.04.1 |
|--------------|------------------------------------|

Rev: 1.00

Id: 3/4

