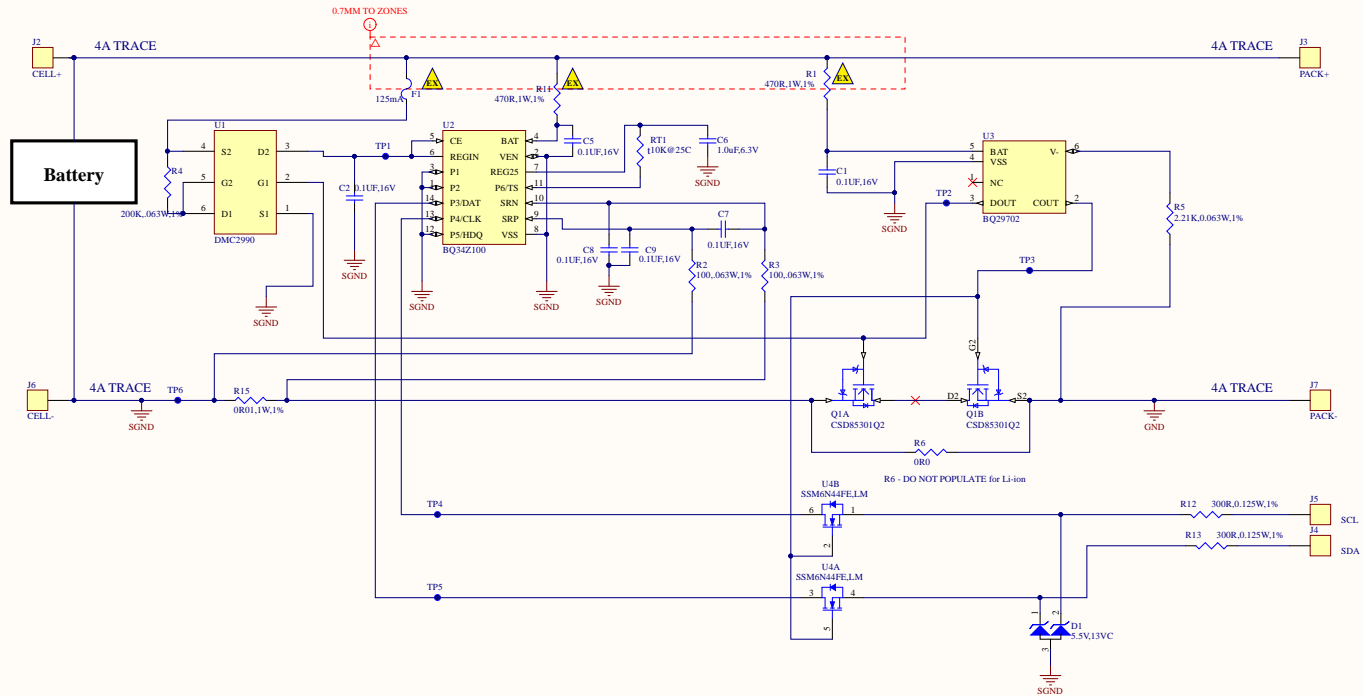


Power calculations outside of HazLoc: Consider 15V fault from charger.  
Power (R11, R1) =  $1.5 * (15)^2 / 470 = 0.7W$ , choose 1W, 2512 resistors.

Power calculations inside of HazLoc: Consider nominal voltage of 3.9 for Li-ion..  
Power (F1) =  $1.7 * I_{max} * 3.9 = 1.7 * 0.125 * 3.9 = 0.83W$ .  
Power (R11 // R1) =  $V^2 / 4R = (3.9)^2 / 4 * 235 = 0.02W$   
Total power available = PowerF1 + Power(R11 // R1) =  $0.83 + 0.02 = 0.85W$



Reference Assembly: 201514  
Reference PCB: 31003537

EXPLOSIVE ATMOSPHERES NOTICE

SCHEDULE DOCUMENT

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04/01/2019  
04/01/2019  
04/01/2019

SCOTT

S A F E T Y

Scott Safety  
Monroe Corporate Center  
4320 Goldmine Road  
Monroe, NC 28110

TITLE:  
Li-ion battery protection board

DECIMAL  
XX .XXX  
±.01 ±.005  
UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN INCHES.

ANGLE  
±1/2°

SIZE  
C

CAGE CODE  
15927

DRAWING NO.  
31003538

REV.  
C

ON EXTERNAL SURFACES:

SCALE  
NONE

SH. 1 OF 1