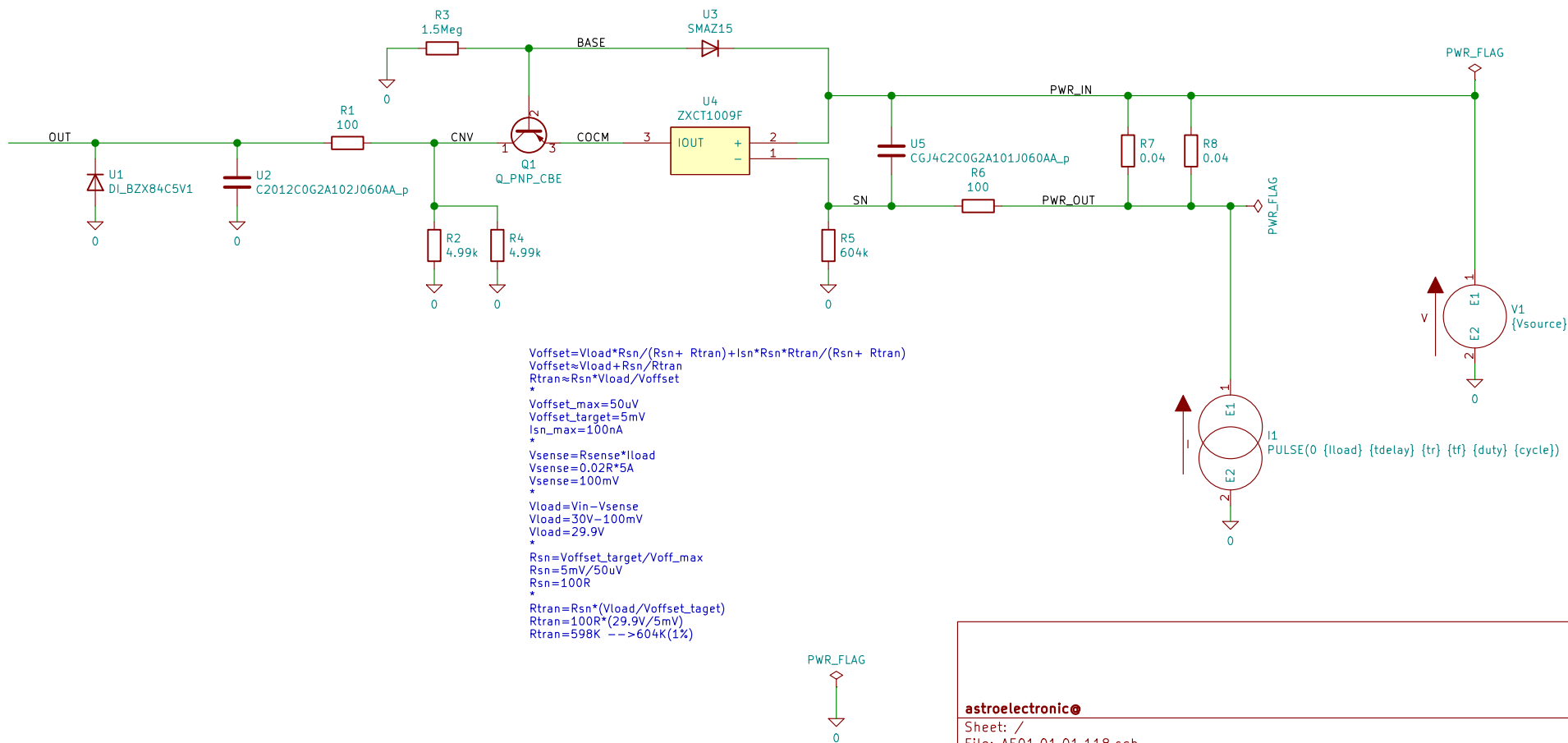


$V_{sense} = R_{shunt} \cdot I_{load}$   
 $V_{sense} = 0.02R \cdot 5A$   
 $V_{sense} = 100mV$   
 $I_{out} = V_{sense} \cdot G_t$   
 $I_{out} = 100mV \cdot 0.01$   
 $I_{out} = 1mA$   
 $R_c = V_{out} / I_{out}$   
 $R_c = 2.5V / 1mA$   
 $R_c = 2.5k = 2 | 4.99k(1\%)$   
 $R_b = ((V_{in\_max} - V_z) \cdot h_{FE\_min}) / I_{out}$   
 $R_b = ((30V - 15V) \cdot 100) / 1mA$   
 $R_b = 1.5Meg(1\%)$



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File: AE01.01.01.118.sch

**Title: ZXCT1009F Current output current monitor**

Size: A4 Date: 2020-06-18

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Rev: 1

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