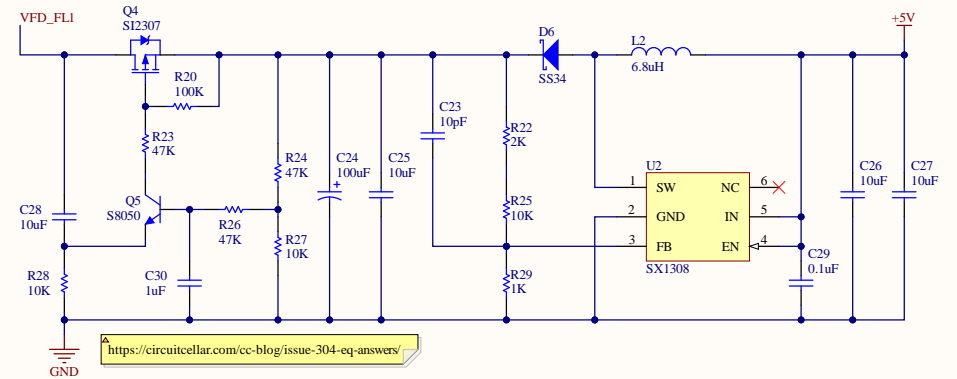
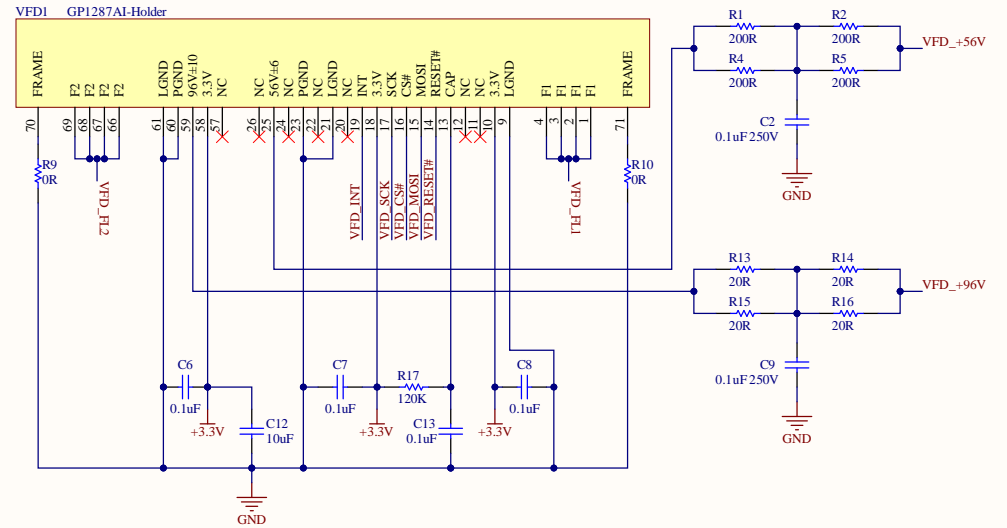
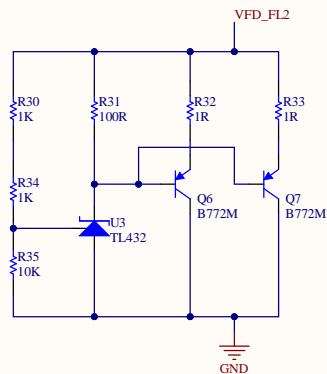


当前灯丝偏压已设置为3V以减少发热和功耗，如果需要使用原板的4.1V偏压需要调整电阻阻值：
R22 3.9K、R30 7.5K、R34 330R

非TI品牌、国产购买TL431
TI品牌、仿品购买TL432
区别为需要参考电压R在1脚上，购买时请特别注意

无特殊标注和注释的陶瓷电容均为大于等于50V
无特殊标注和注释的电解电容均为大于等于16V



<https://circuitcellar.com/cc-blog/issue-304-eq-answers/>

Title		
GP1287AI VFD BOARD		
Size A3	Number 1	Revision 5.00
Date: 3/28/2022	Sheet of 1	
File: E:\Projects\...\Sheet1.SchDoc	Drawn By:	