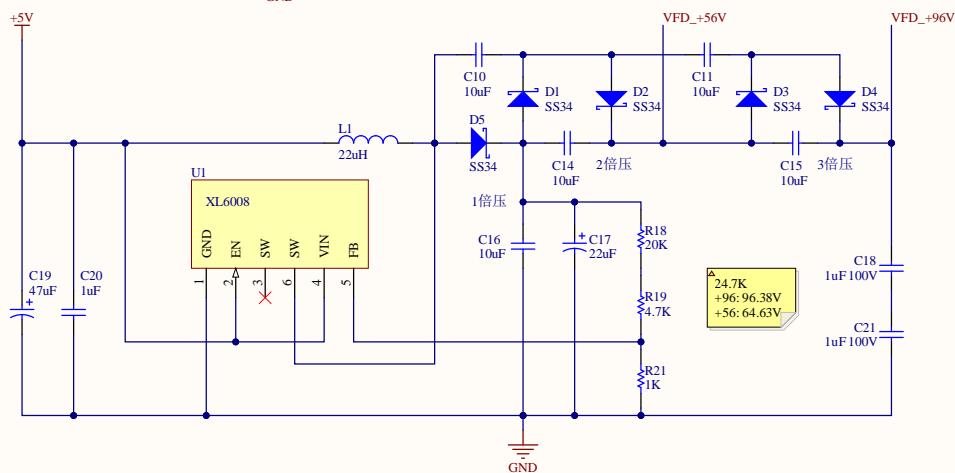


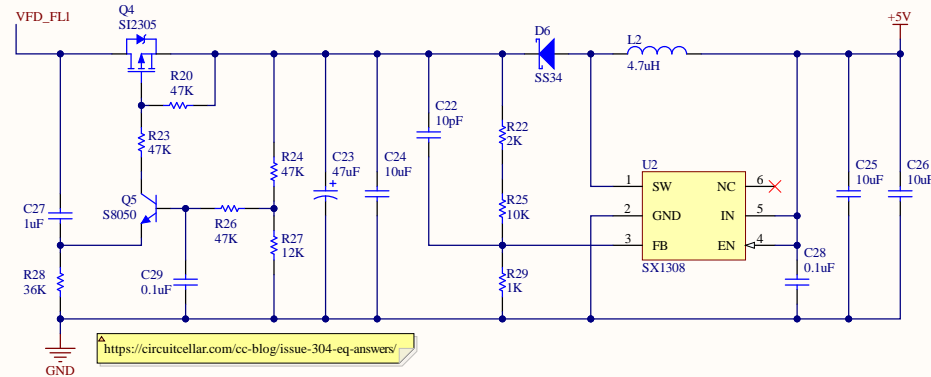
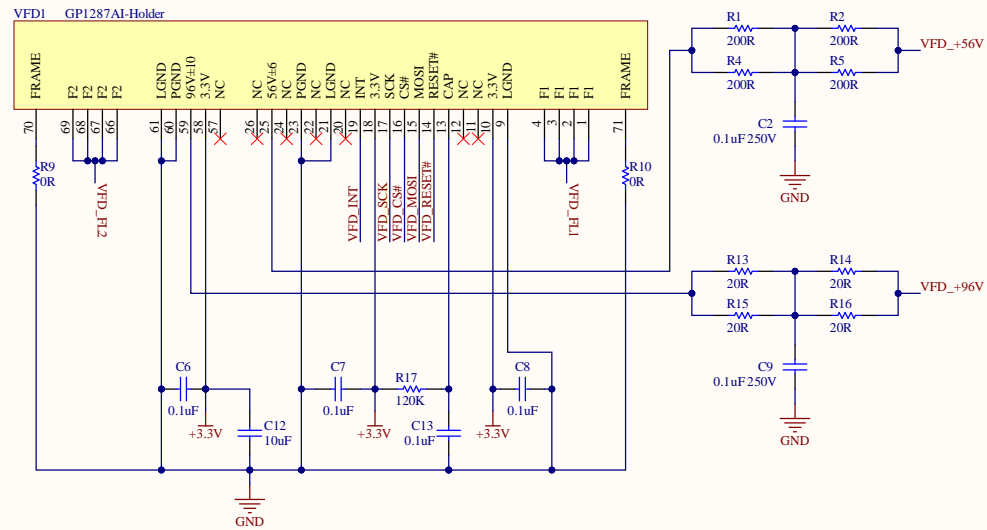
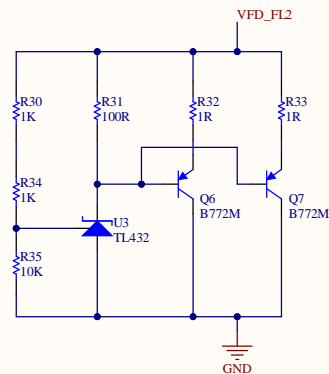
▲ 高电平开启:
J1: NC
J2: 2-3

▲ 低电平开启:
J1: 1-2
J2: 1-2



▲ 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 4.7K、R25 10K、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



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

Title			
GP1287AI VFD BOARD			
Size	Number	Revision	
A3	1	4.00	
Date:	3/18/2022	Sheet of	
File:	E:\Projects\Sheet1.SchDoc	Drawn By:	