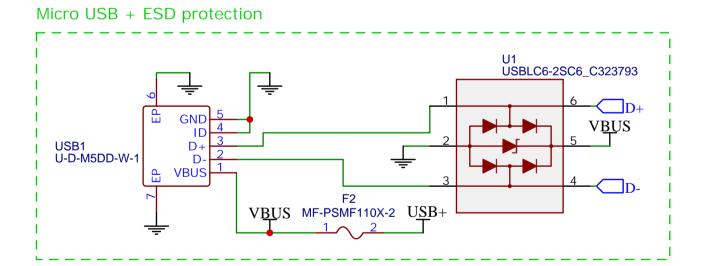
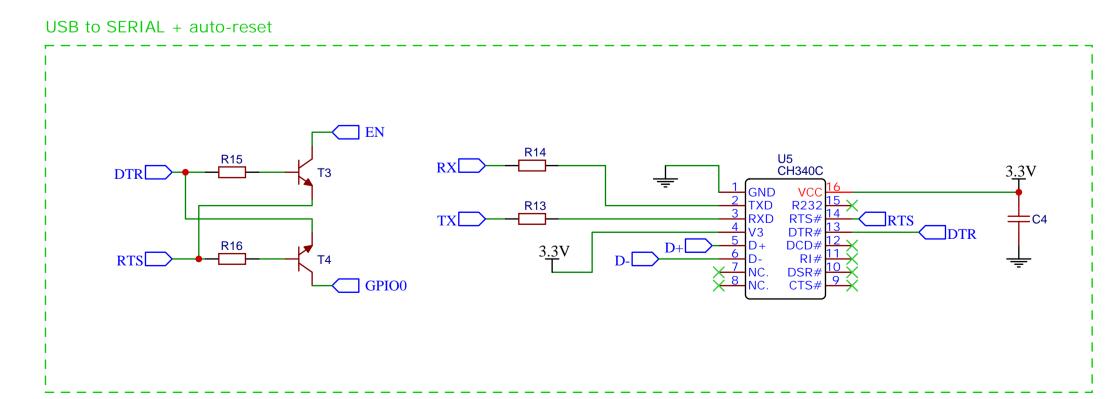
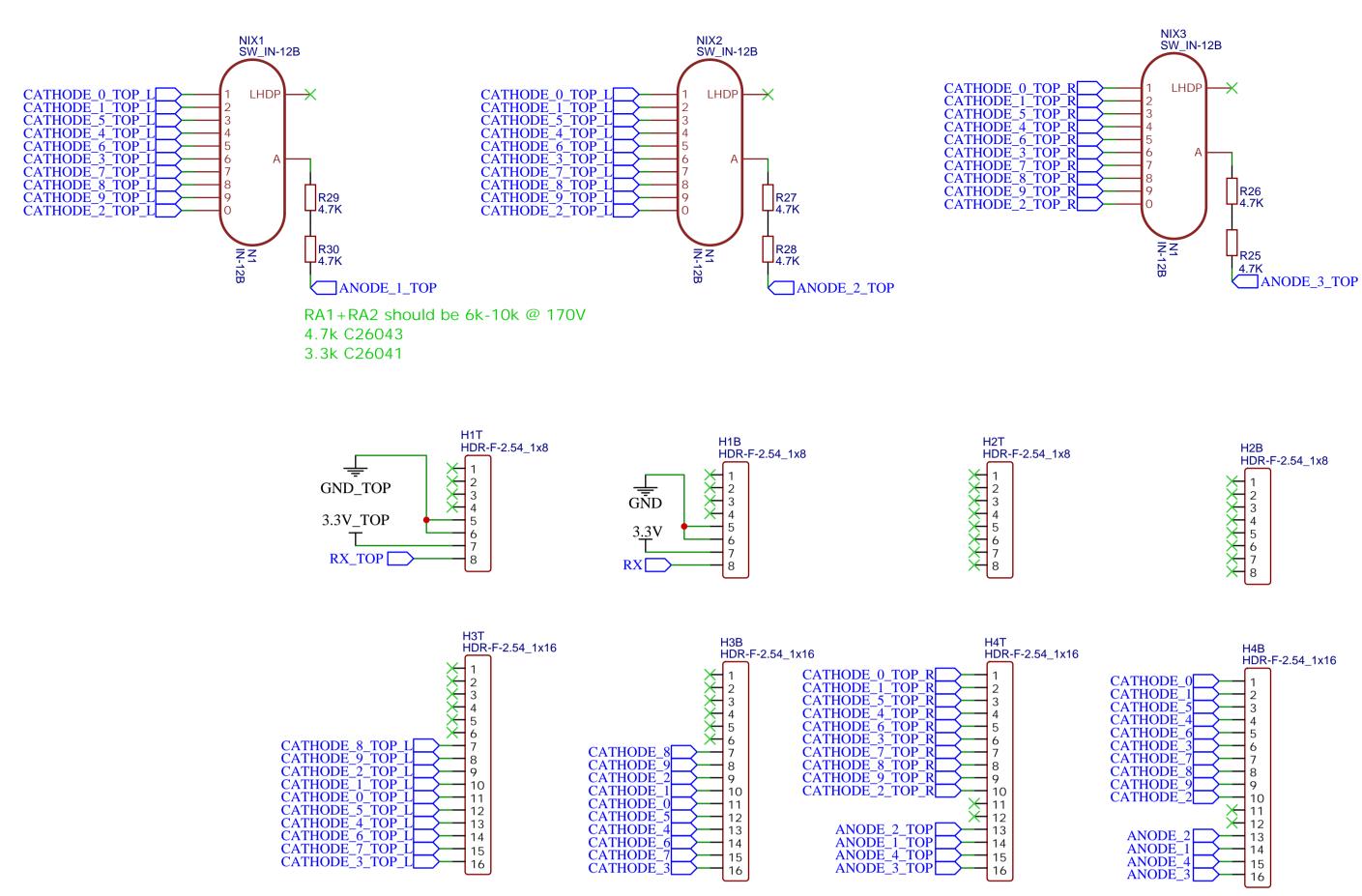


Using a switching regulator like RT8059 is also a great option





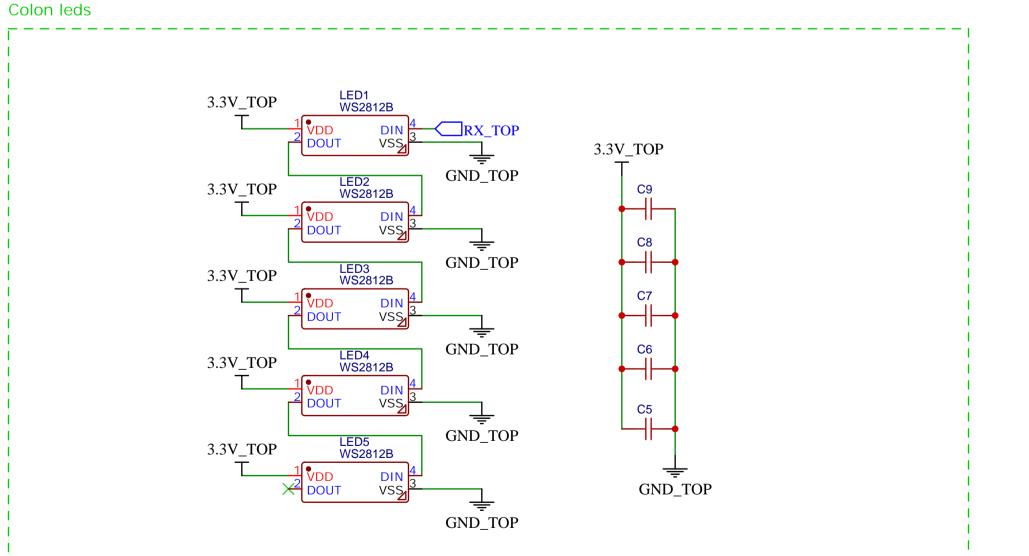


CATHODE 0 TOP R

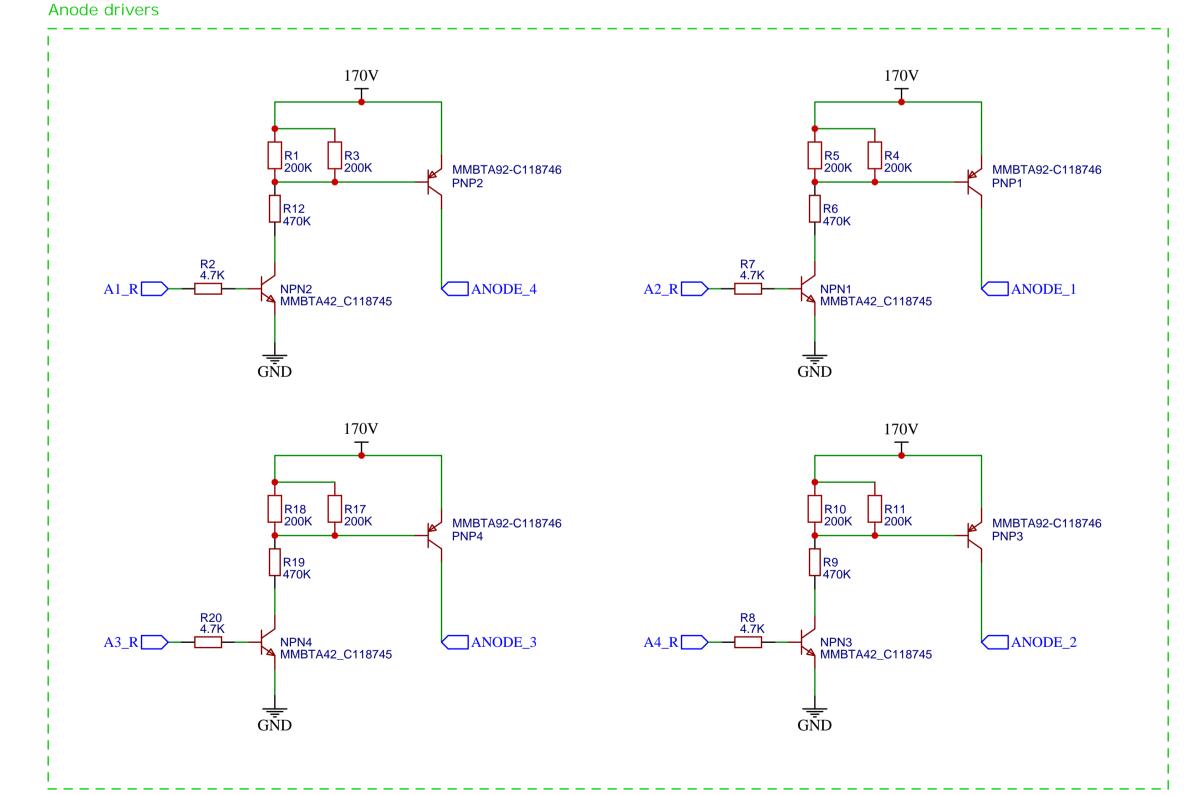
CATHODE 0 TOP_R
CATHODE 1 TOP_R
CATHODE 5 TOP_R
CATHODE 4 TOP_R
CATHODE 6 TOP_R
CATHODE 3 TOP_R
CATHODE 7 TOP_R
CATHODE 8 TOP_R
CATHODE 9 TOP_R
CATHODE 2 TOP_R

ANODE_4_TOP

4x male and 4x female 16pin header is required



Decoupling capacitors should be placed as close to LEDs as possible Powered from 3.3V for lower brightness + no level shifter required. Out of spec but tested on several different chips i I Depending on exact chip used, you will have to adjust colors in config portal WS2812B are almost too bright. WS2812C (lcsc C114587) recommended for its lower max brightness.



These can be replaced with optocouplers (TLP627) but at the expense of lower multiplexing frequency

NICK32_IN12 Sheet: 1/1 Date: 2021-03-09 Drawn By: NiceThings