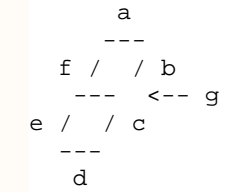


!! Note: 100mA(max) current allowed for Port A !!  
ILmax(porta) = ((5-Vled)/Rlim) \* 8 = 41 mA  
Iled(330) = 9.1mA; Iled(590) = 5.1mA

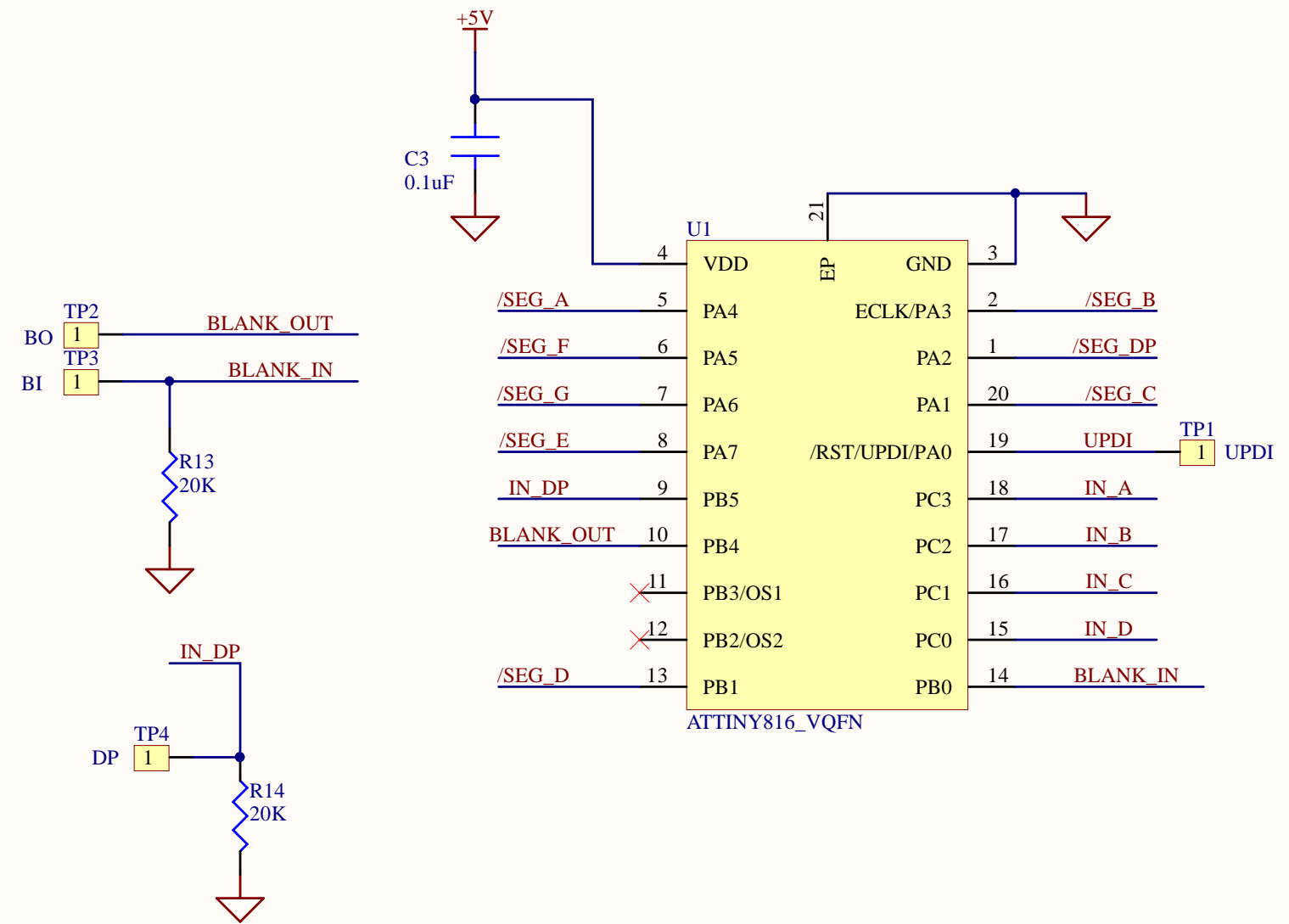
HEX/BCD LED Display BugBoard  
Implements a HEX to 7-seg decoder with display.  
Input is [d:a] with pull-downs.  
Seg map (CA display, ground port pins to illuminate seg):



\$0 = "0", {abcdef}  
\$1 = "1", {bc}  
\$2 = "2", {abdeg}  
\$3 = "3", {abcdg}  
\$4 = "4", {bcfg}  
\$5 = "5", {acdfg}  
\$6 = "6", {acdefg}  
\$7 = "7", {abc}  
\$8 = "8", {abcdefg}  
\$9 = "9", {abcdfg}  
\$A = "A", {abcefg}  
\$B = "b", {cdefg}  
\$C = "C", {adef}  
\$D = "d", {bcdeg}  
\$E = "E", {adefg}  
\$F = "F", {aefg}

DP is pinned to a test point as are BI & BO.  
Display blanks if input is \$0 & BI = 1  
BO = 1 if (input == \$0) && (BI == 1)

To use blanking, BI of the MSd = 1 & connect BO to next lowest digit, repeat for all but right most digit (it's BI is left open = 0). DP == 1 disables BI and BO.



Title		
Hex - 7seg display BugBoard		
Size	Number	Revision
A	bug7seg Designed by Joe Haas, KE0FF	-
Date:	5/3/2024	Sheet of
File:	C:\Users\...\bug7seg.SchDoc	Drawn By: KE0FF