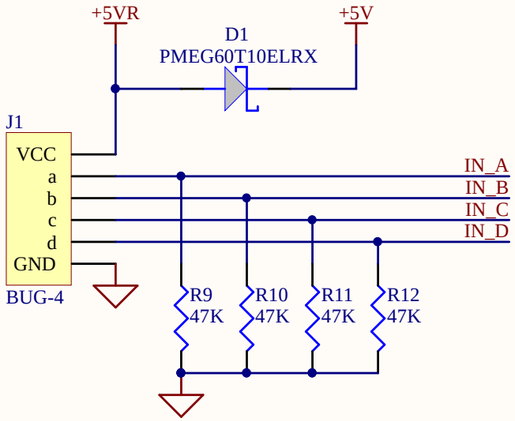
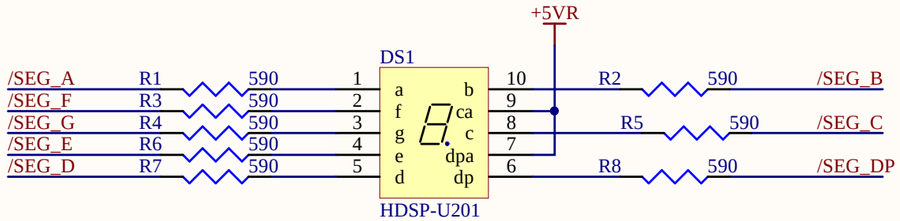
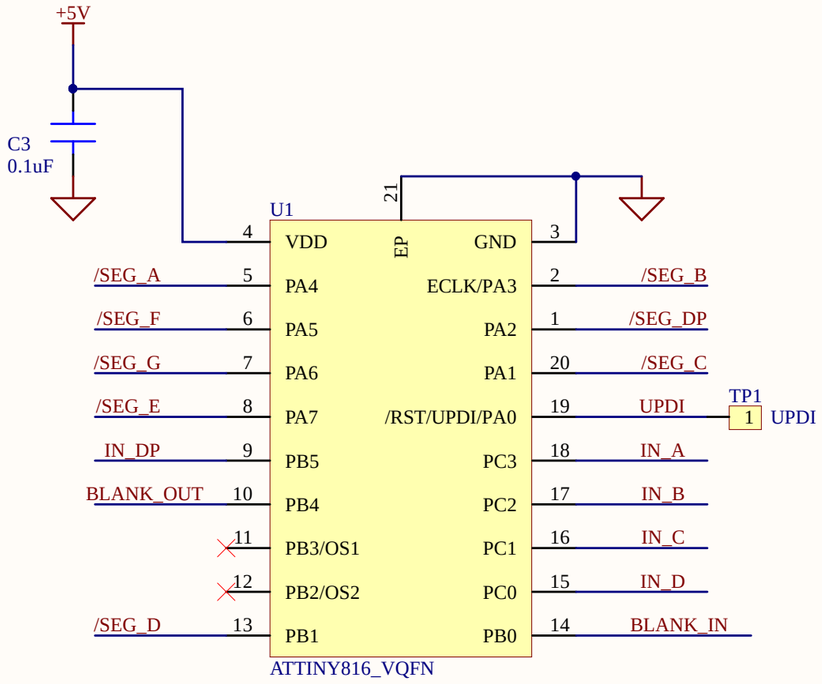
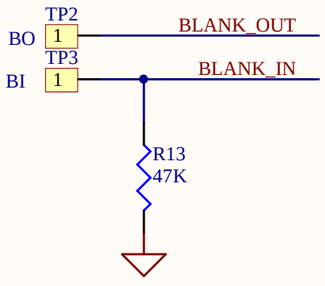
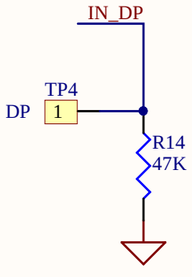




!! Note: 100mA(max) current allowed for Port A !!
ILmax(porta) = ((5-Vled)/Rlim) * 8 = 41 mA
Iled(330) = 9.1mA; Iled(590) = 5.1mA








```
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):
      a
     ---
  f /  / b
   ---  <-- g
e /  / c
  ---
   d

$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: A	Number: bug7seg Designed by Joe Haas, KE0FF	Revision: -
Date: 5/6/2024		Sheet of
File: C:\Users\..\bug7seg.SchDoc		Drawn By: KE0FF