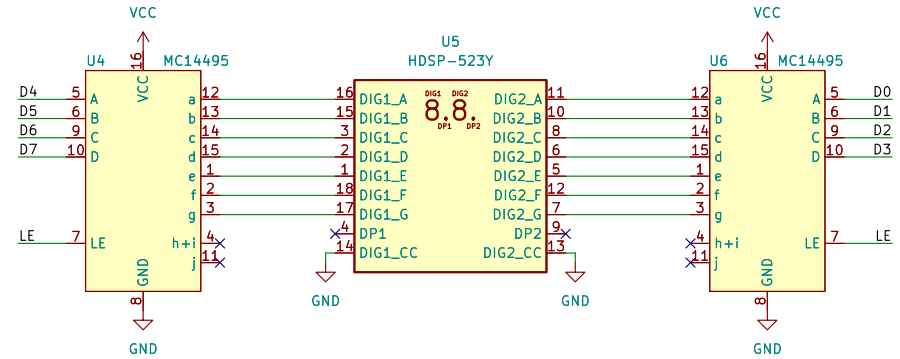
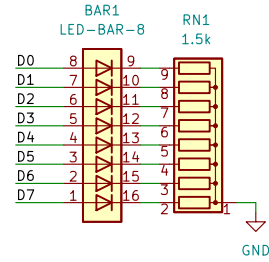
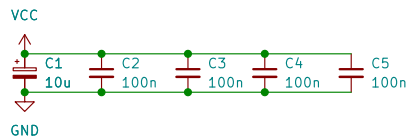
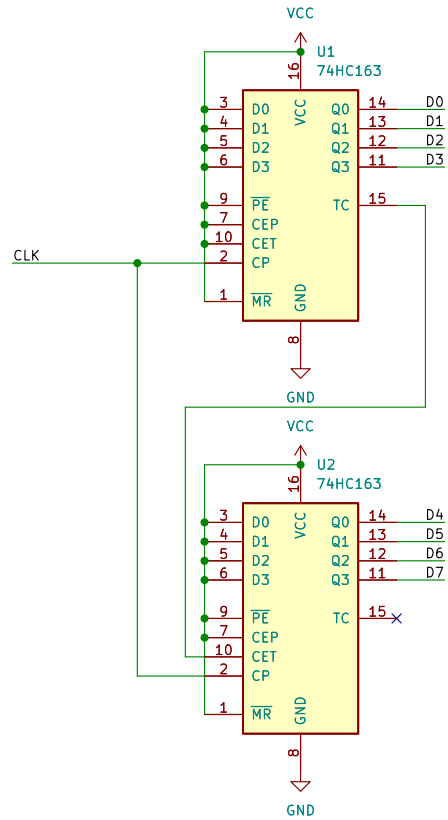


VCC
PWR_FLAG
PWR_FLAG
GND



MC14495:
 $V_{(on)} = -0.31 \cdot I + 4.71667$ (linear regression)

HDSP-523Y
 $V_F = 0.025 \cdot I + 1.63333$ (approx from graph, linear regression)

$\Rightarrow V_{(on)} = V_F$
 $\Rightarrow -0.31 \cdot I + 4.717 = 0.025 \cdot I + 1.633$
 $\Rightarrow 3.084 = 0.285 \cdot I$
 $\Rightarrow I = 10.82 \text{ mA}$

$I_V = 2.3 \text{ mcd @ } 10 \text{ mA}$
 $\Rightarrow I_V = 2.3 \cdot 10.82 / 10 = 2.48 \text{ mcd}$

Copyright © 2022 Adrien Kohlbecker
Licensed under CERN-OHL-W v2
https://github.com/adrienkohlbecker/8bit_hex_display

Sheet: /
File: 8bit_hex_display.kicad_sch

Title: 8bit Hexadecimal Display

Size: A4 Date: 2022-04-08

KiCad E.D.A. kicad (6.0.11-0)

Rev: B.2

Id: 1/1