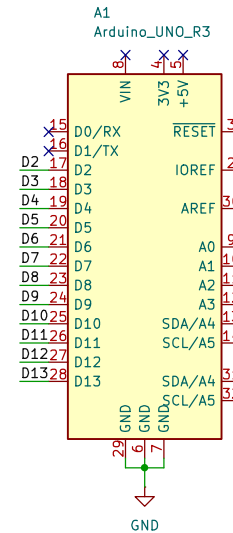
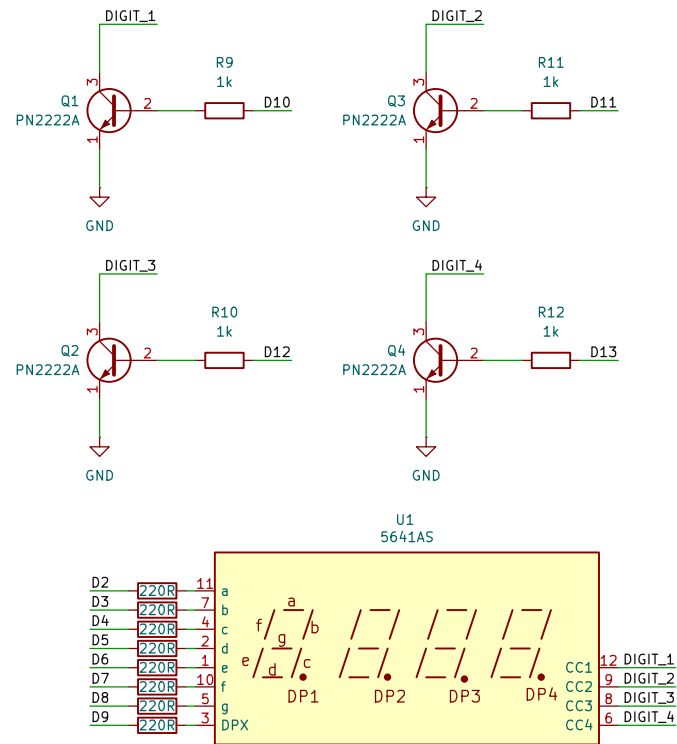


# COMMON CATHODE 7 SEGMENT 4 DIGIT DISPLAY



ARDUINO DIGITAL PIN	MAPPING
D13	DIGIT 4 TRANSISTOR BASE
D12	DIGIT 3 TRANSISTOR BASE
D11	DIGIT 2 TRANSISTOR BASE
D10	DIGIT 1 TRANSISTOR BASE
D9	Decimal Point
D8	G
D7	F
D6	E
D5	D
D4	C
D3	B
D2	A

- Make sure to use 220-470 ohm resistors to limit current supplied by the arduino. Adjust according to the forward voltage drop of your LEDs
- Also use 1k ohm resistors to drive the bases of the transistors to ensure sufficient saturation. The arduino cannot sink current for all the 8 segment LEDs
- The emmitter should be connected to GND and collector to the DIGIT pins

DIRECT DRIVE WITH AN ARDUINO

Antony Kasera

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File: KICAD PROJECTS.kicad\_sch

**Title: 7 SEGMENT 4 DIGIT COMMON CATHODE**

Size: A4

Date: 2025-11-13

Rev: 1

KiCad E.D.A. 9.0.3

Id: 1/1