

A

A

PowerBoard

POWER

File: PowerBoard.kicad_sch

CONN6A

14 PIN
BOARD-TO-BOARD

MainBoard

MAIN

File: MainBoard.kicad_sch

SPEEDOMETER
6X2 HEADER

CONN1

CONN6B

DisplayBoard

VFD

File: DisplayBoard.kicad_sch

CONN4

CONN3

CONN2

8 PIN
CABLEHUD
2x4 HEADERODOMETER
6 PIN HEADERMPH/KMH SWITCH
4 PIN HEADER

NISSAN 180/240SX S13 Digital Speedometer

Sheet: /
File: 180sx-240sx-s13-digidash.kicad_schblog.michalhrouda.cz**Title:**

Size: A4 | Date: 2026-01-31

Rev: REV3

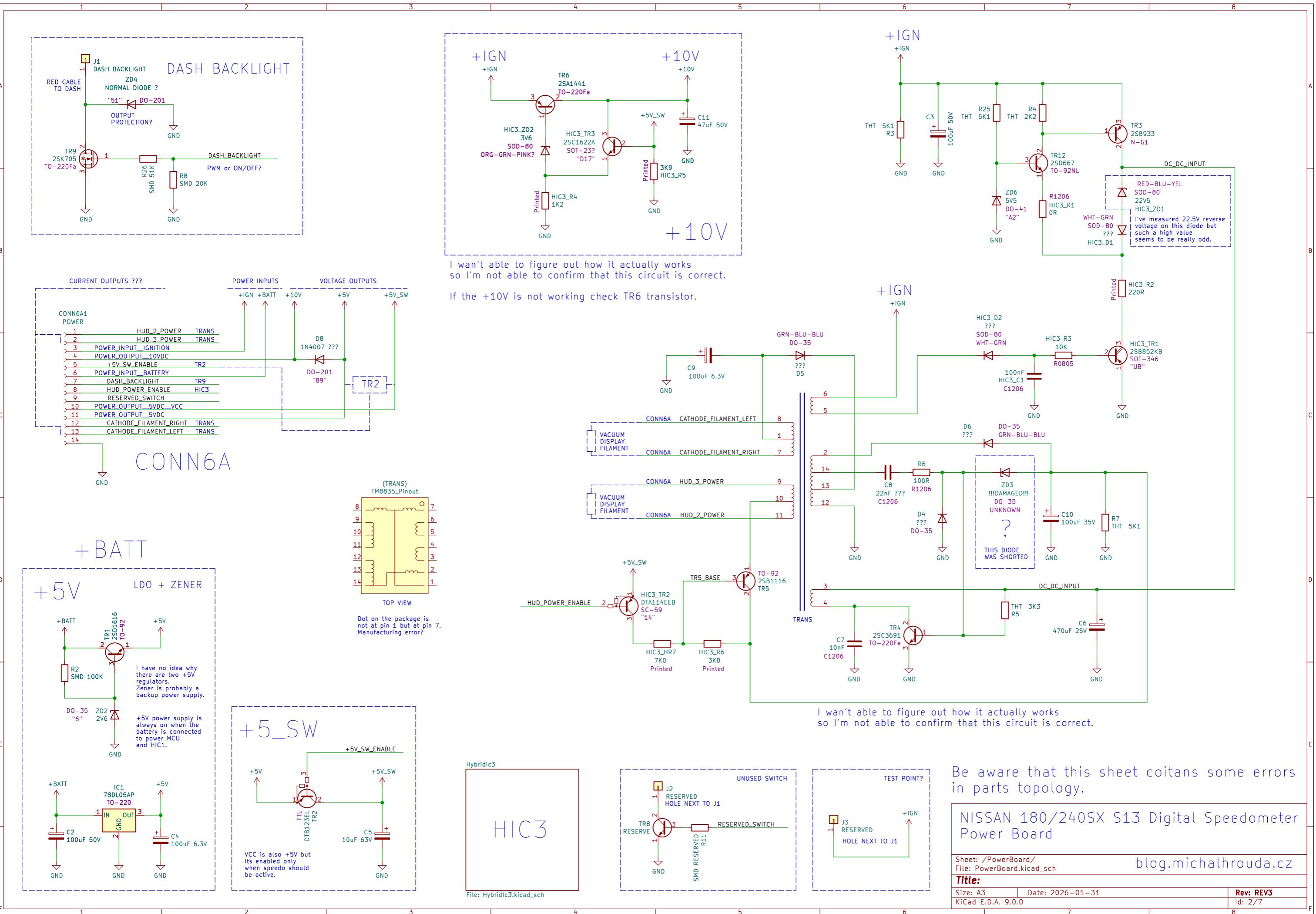
KiCad E.D.A. 9.0.0

Id: 1/7

Revision notes:

REV2
 Power + Main - HUB_POWER_ENABLE renamed to HUD_POWER_ENABLE (Typo)
 HIC1 – TR2, TR3, TR4 transistor naming fixed from DTC114TCA to DTC144TCA

HIC1 – TR1, TR2, TR3, TR4 transistor schematic symbol changed from BEC to EBC (Swapped base-emitter numbering fixed)



A

A

B

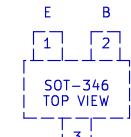
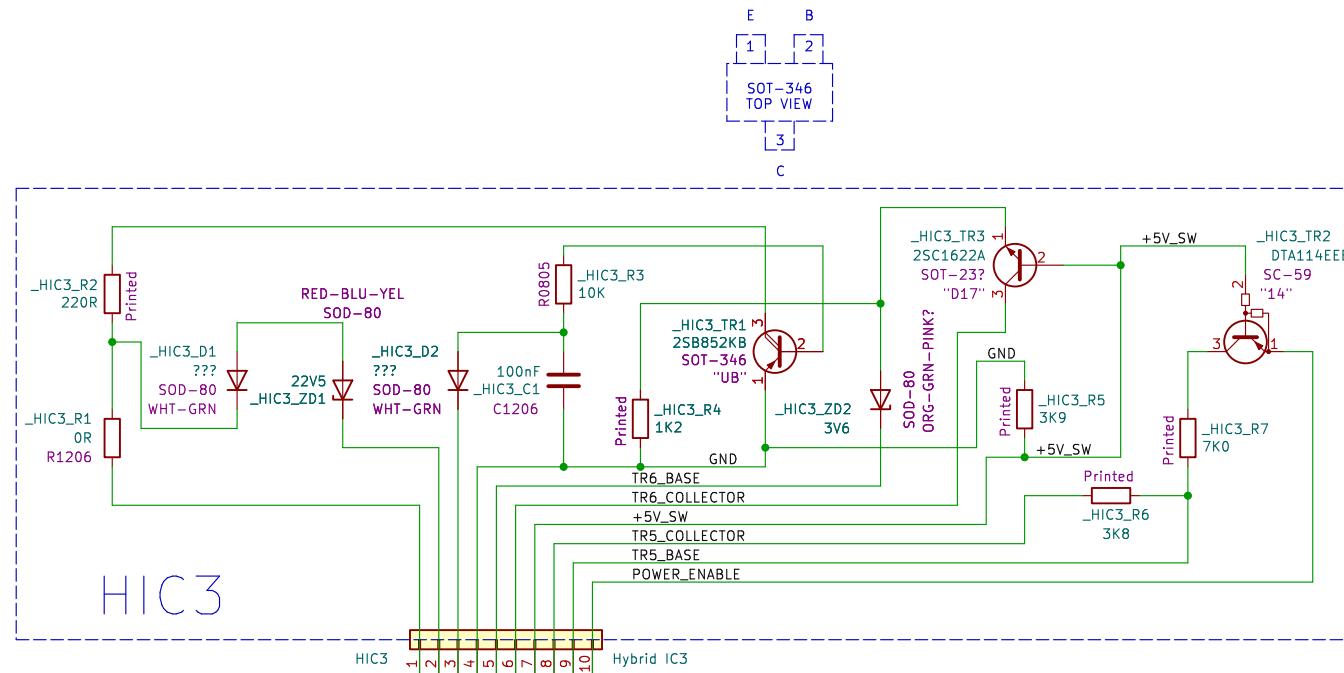
B

C

C

D

D



NISSAN 180/240SX S13 Digital Speedometer Main Board – Hybrid IC 3

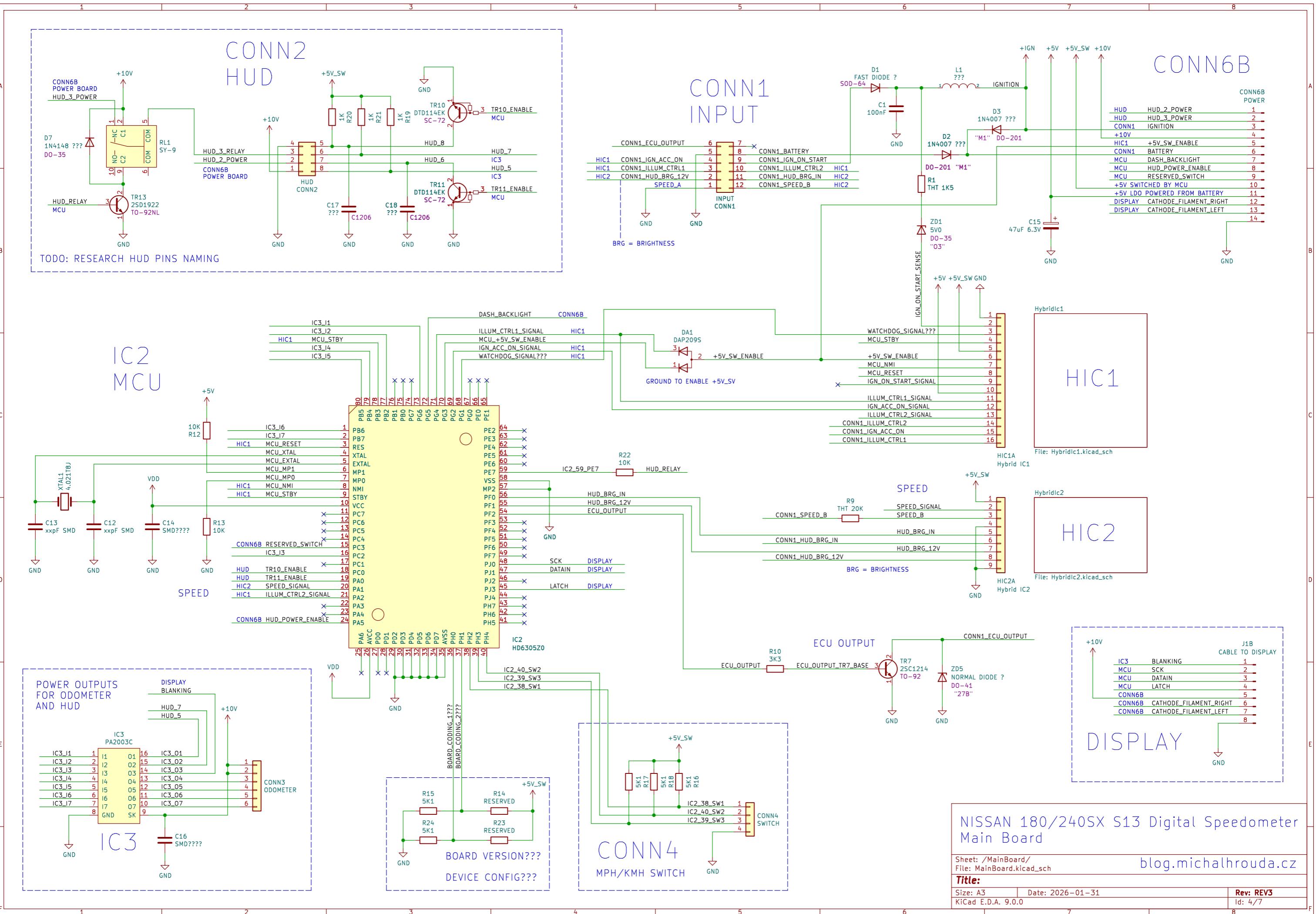
Sheet: /PowerBoard/HybridIC3/
File: HybridIC3.kicad_sch

blog.michalhrouda.cz

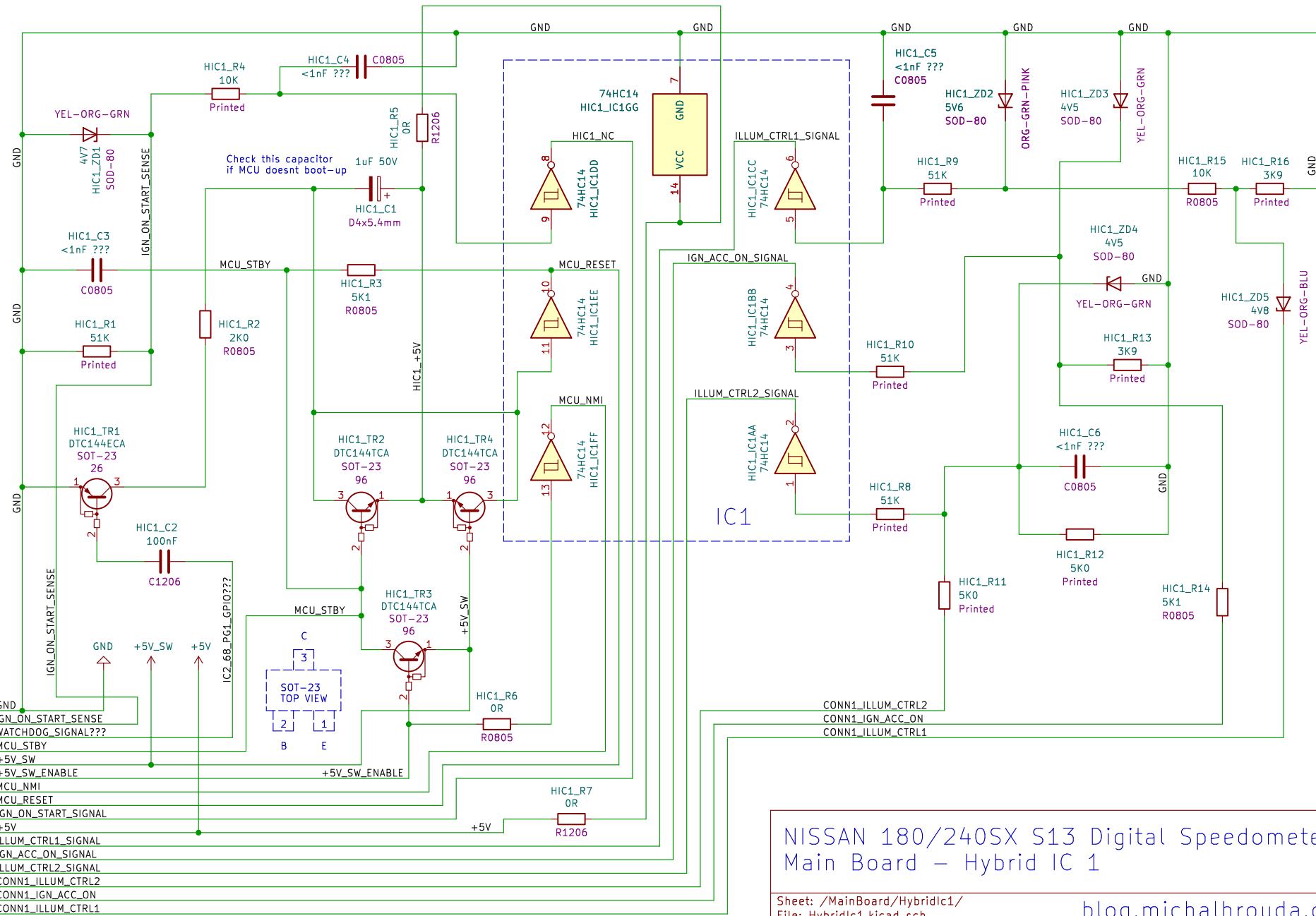
Title:

Size: A4 | Date: 2026-01-31
KiCad E.D.A. 9.0.0

Rev: REV3
Id: 3/7



HIC1



NISSAN 180/240SX S13 Digital Speedometer
Main Board – Hybrid IC 1

Sheet: /MainBoard/HybridIC1/
File: HybridIC1.kicad_sch

blog.michalhrouda.cz

Title:

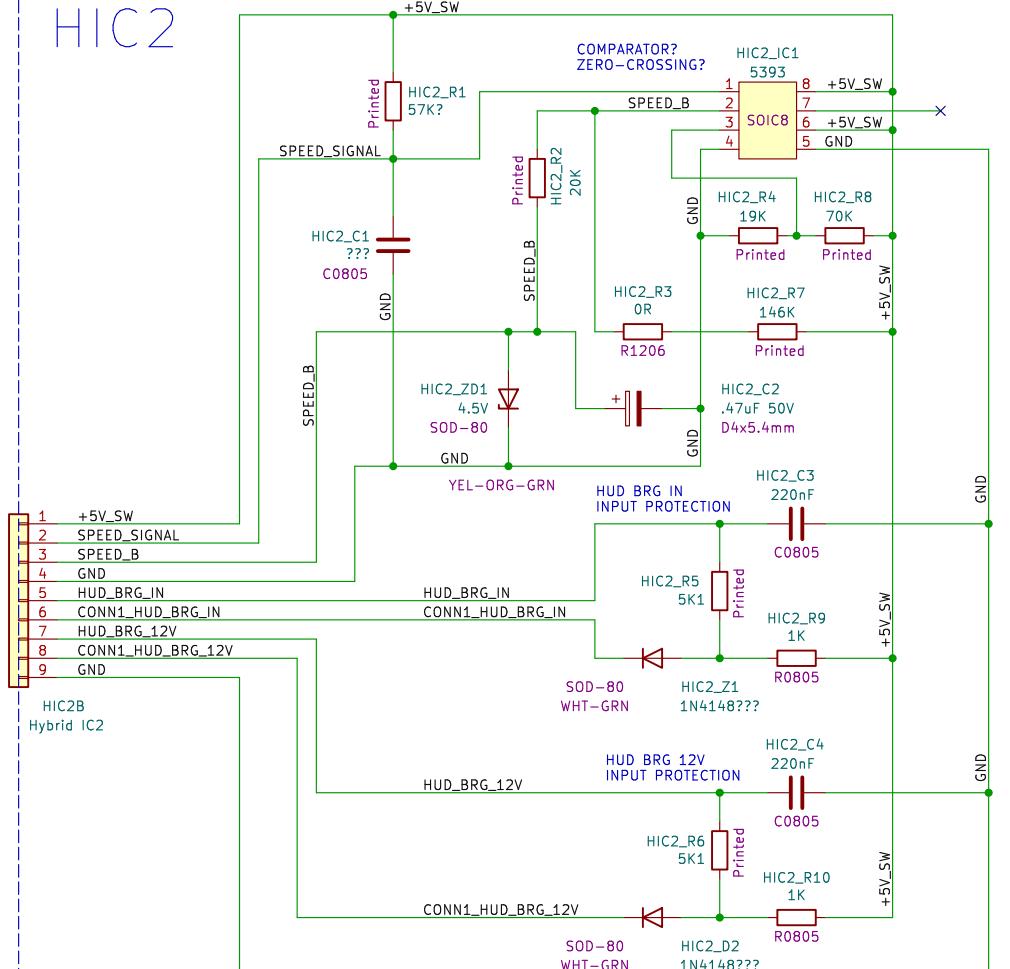
Size: A4 Date: 2026-01-31

KiCad E.D.A. 9.0.0

Rev: REV3

Id: 5/7

HIC2



NISSAN 180/240SX S13 Digital Speedometer Main Board – Hybrid IC 2

Sheet: /MainBoard/HybridIC2/
File: HybridIC2.kicad_sch

blog.michalhrouda.cz

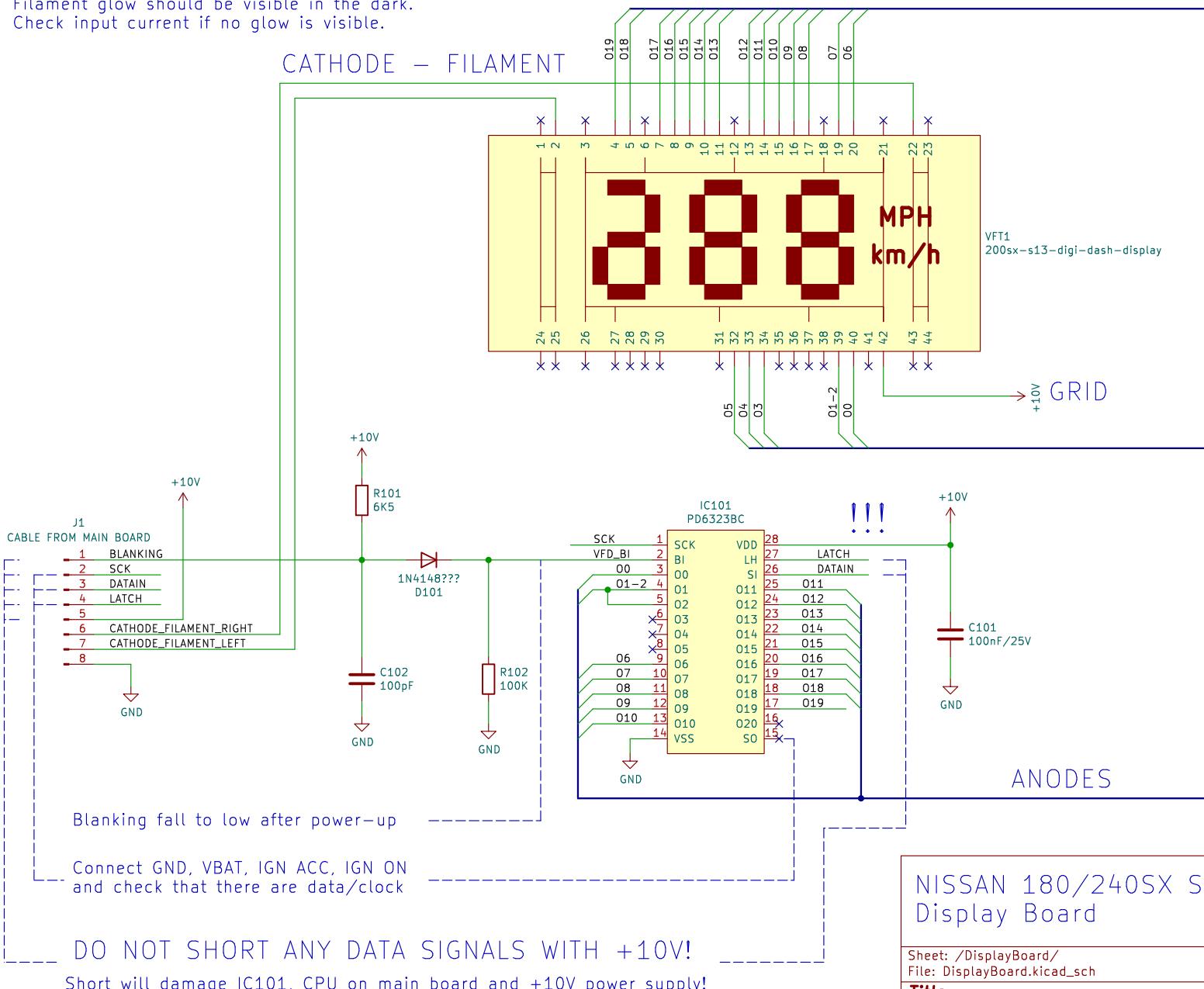
Title:

Size: A4 Date: 2026-01-31
KiCad E.D.A. 9.0.0

Rev: REV3
Id: 6/7

1 2 3 4 5 6
Filament glow should be visible in the dark.
Check input current if no glow is visible.

CATHODE – FILAMENT



blog.michalhrouda.cz