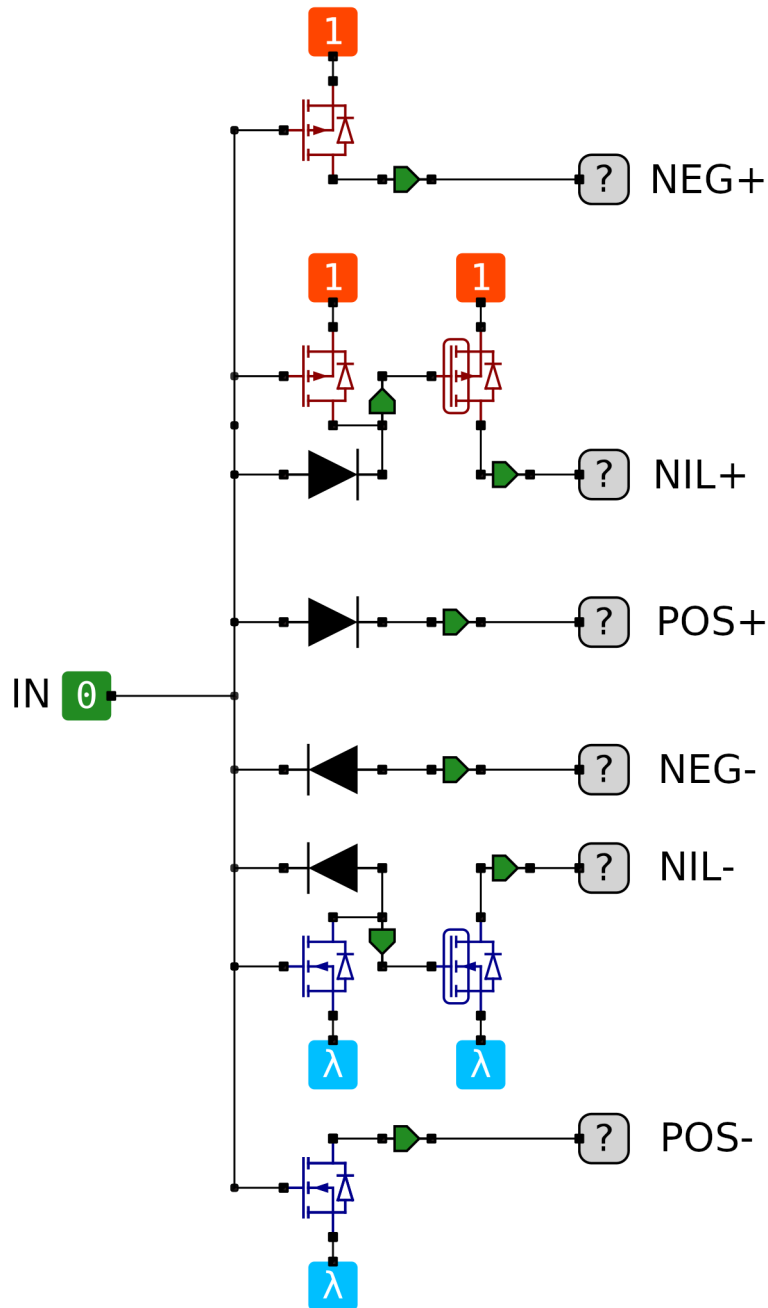


Decoder PCB specification

Decoder is a logical element that indicates, which signal does it receive. Mathematically, it decodes a digit of positional numeral system into few digits of unpositional numeral system. Decoder is an essential component for multiplexers, memory addressing and instruction decoder.



Pins description

IN - input signal pin

NEG- - output signal, negative when “IN” is negative

NEG+ - output signal, positive when “IN” is negative

NIL- - output signal, negative when “IN” is zero

NIL+ - output signal, positive when “IN” is zero

POS- - output signal, negative when “IN” is positive

POS+ - output signal, positive when “IN” is positive
All voltage sources correspond to power supply.

Designed behaviour

IN	NEG-	NEG+	NIL-	NIL+	POS-	POS+
λ	λ	1	0	0	0	0
0	0	0	λ	1	0	0
1	0	0	0	0	λ	1

PCB layout

