

# DC current

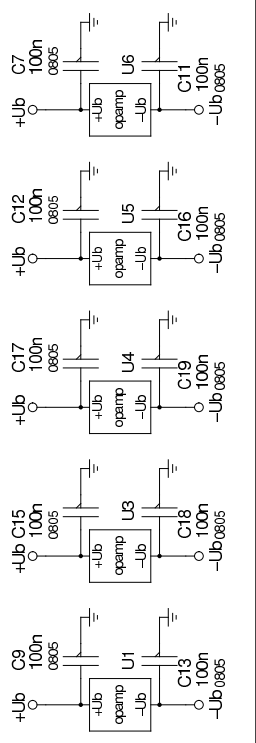
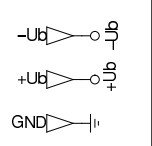
## set DC current

### shut down DC current and shorten LD

### AC current

<b>Lasertreiber (Strom)</b>		2.2
TITLE	REV.:	19.10.10
FILE: lasertreiber_1_strom.sch	DATE:	
	DRAWN BY:	2 / 4

For 200 mA:  
 \* R14 = 22R  
 \* R32 = 33k  
 \* R33 = 910R || 47k  
 \* R34 = 680R || 100k



Pad to connect panel plate with ground



value in parenthesis --> Do not populate  
 value with asterisk --> value may have to be changed

Output current is limited by U8 and U13 to  $I = 1.2 / R$   
 Choose R34 and R53 accordingly.

To disable current limiting:  
 1) remove R34 and R53.  
 2) close J6 an J7

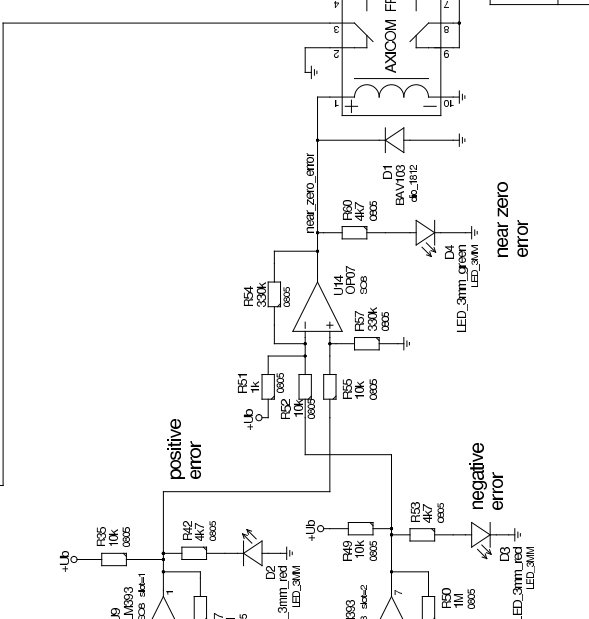
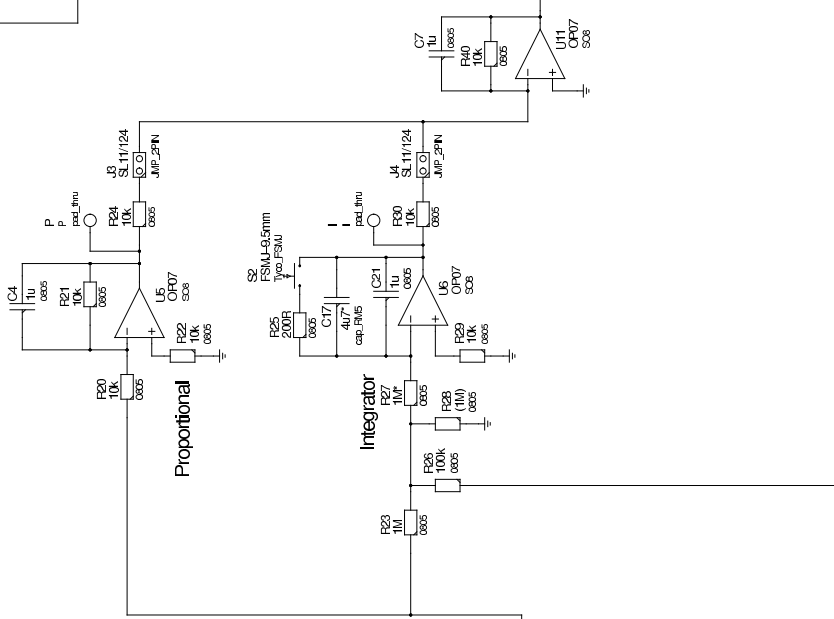
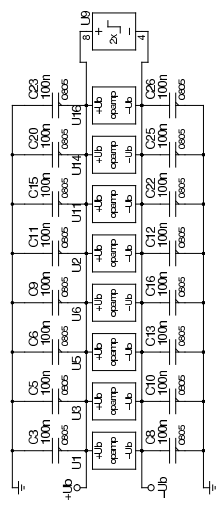
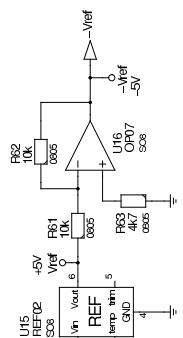
Jumpers J2 adds a test voltage to the input of the circuit. This is useful for testing. Remove the jumper for best stability.

Use J8, J9 to reverse the polarity of the control loop.

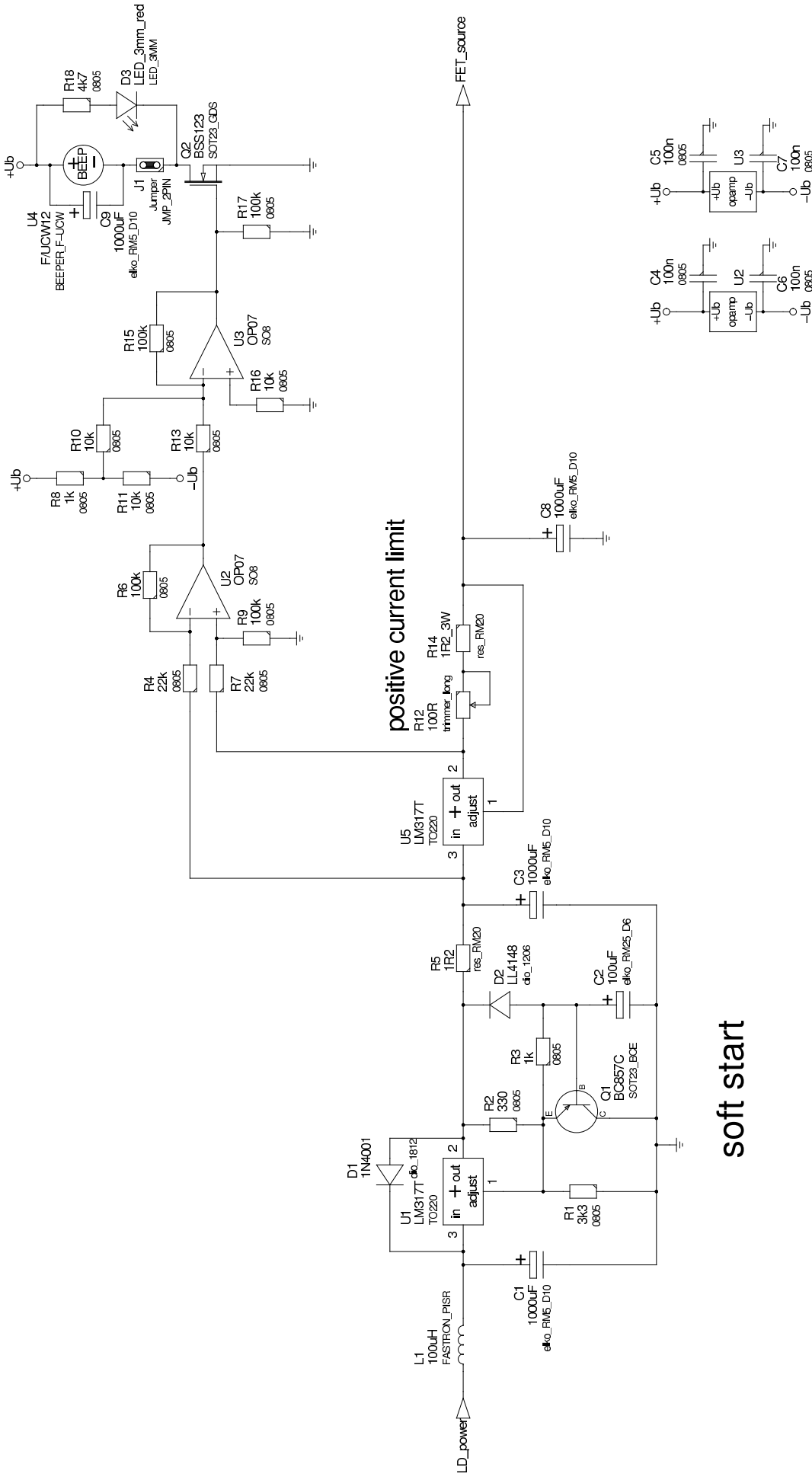
Timinex R12 and R34 are alternative topoints. Choose care at population time.

R1 should match the actual value of the ntc resistor at the desired temperature. R4 and R7 should match the nominal value of the ntc resistor. Use a precision resistor at R2 instead of R4 for lower drift.

precision voltage reference

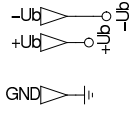


# Warn, when beyond the limit



positive current limit

soft start



## Lasertreiber (Limit)

TITLE	Lasertreiber (Limit)	REV:	2.2
FILE:	lasertreiber_3_limit.sch	DATE:	19.10.10
		DRAWN BY:	4/4

value in parenthesis ----> Do not populate  
 value with asterix ----> value may have to be changed