value in parenthesis ---> Do not populate
value with asterix ---> 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

Jumper 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.

Proportional

Integrator

error signal

regulation
on/off

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.

Trimmers R12 and R64 are
alternative footprints. Choose
one at population time.

positive
error

negative
error

near zero
error

precision voltage reference

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