

Annotation:
 Power supply must provide following voltages:
 +5V digital supply
 +−15V analog supply
 +24V OCXO (oven-controlled crystal oscillator) supply

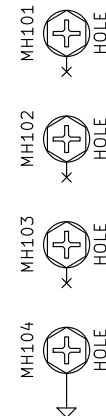
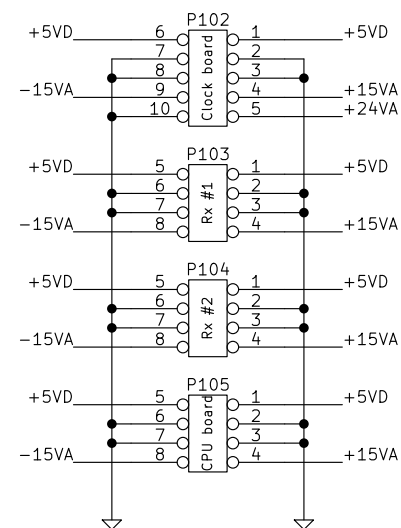
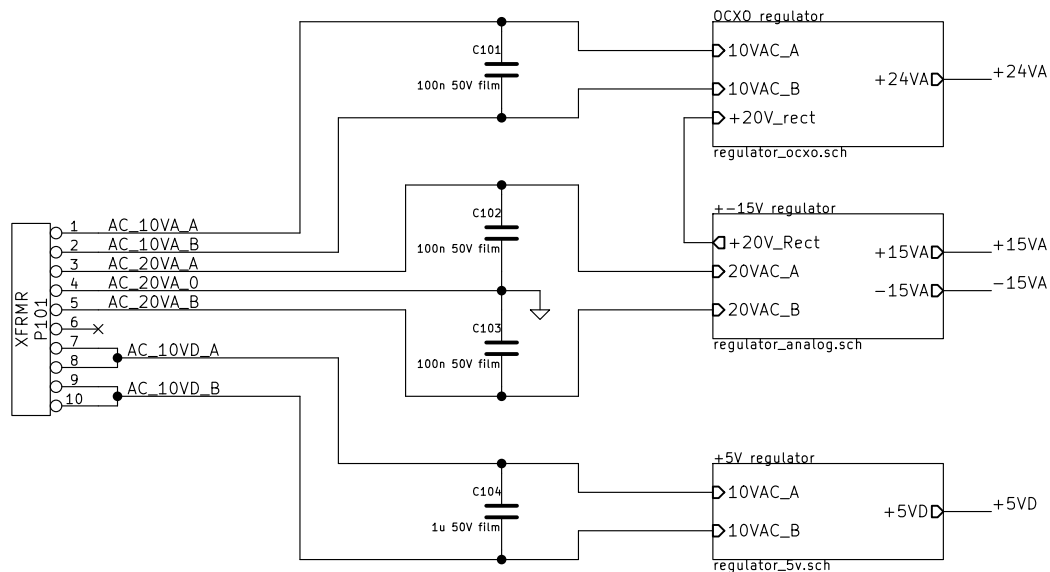
Maximum continuous currents:
 +5V rail: 2.0A
 +−15V rails: 0.8A each
 +24V rail: 0.6A

Primary supply comes from mains, through a step-down transformer TPP289 (ТПП289) – generic USSR transformer model.
 Nominal transformer power: 90W (90VA in some sources)
 Total apparent power with maximum load: ~105VA, so transformer would be slightly overloaded and needs proper ventilation.

Permitted mains voltage variation: −15%/+5%, switchable primary windings allow even broader range.

NOTE:
 Resistors:
 −no special annotation: +−5% tolerance, any T.C. (carbon film allowed)
 −LTC: +−5% tol. and moderately low T.C. (<=100ppm/°C, for ex. metal film)
 −1%: +−1% tol. and LTC

All resistors are 0.5W, unless noted otherwise



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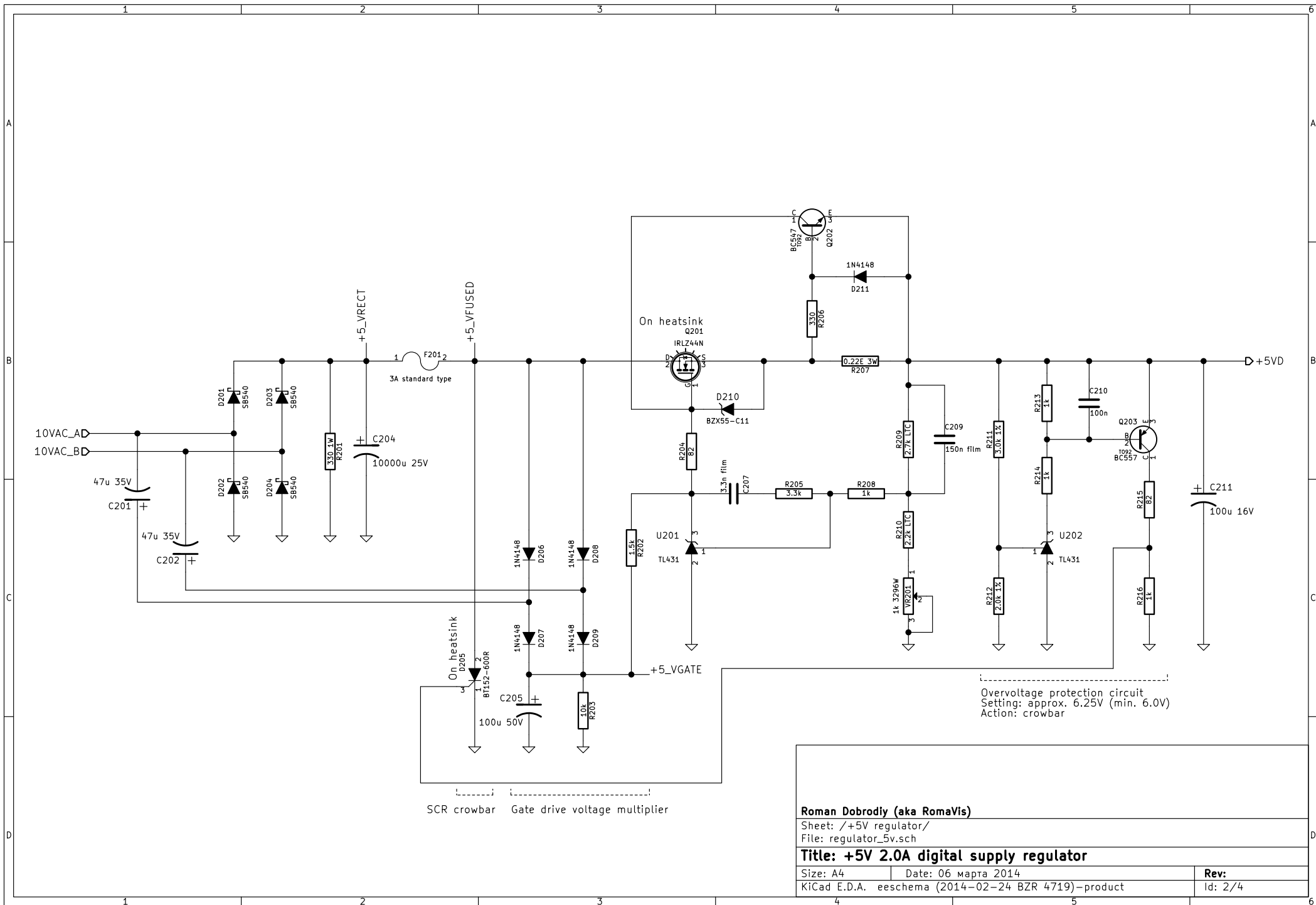
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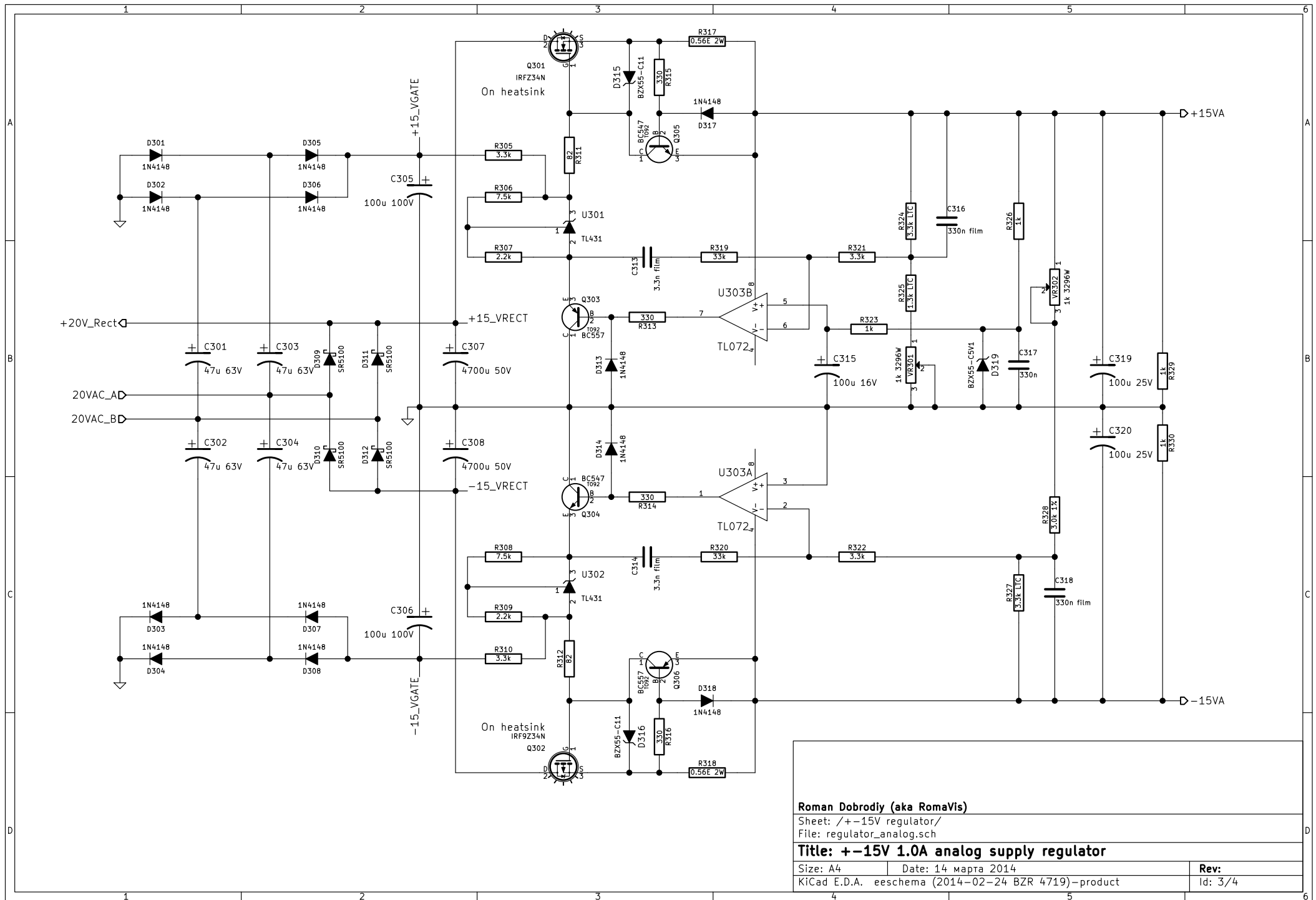
Title: Loran C receiver power supply

Size: A4 Date: 05 марта 2014

KiCad E.D.A. eeschema (2014-02-24 BZR 4719)–product

Rev:
 Id: 1/4





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Sheet: /+-15V regulator/

File: regulator_analog.sch

Title: +-15V 1.0A analog supply regulator

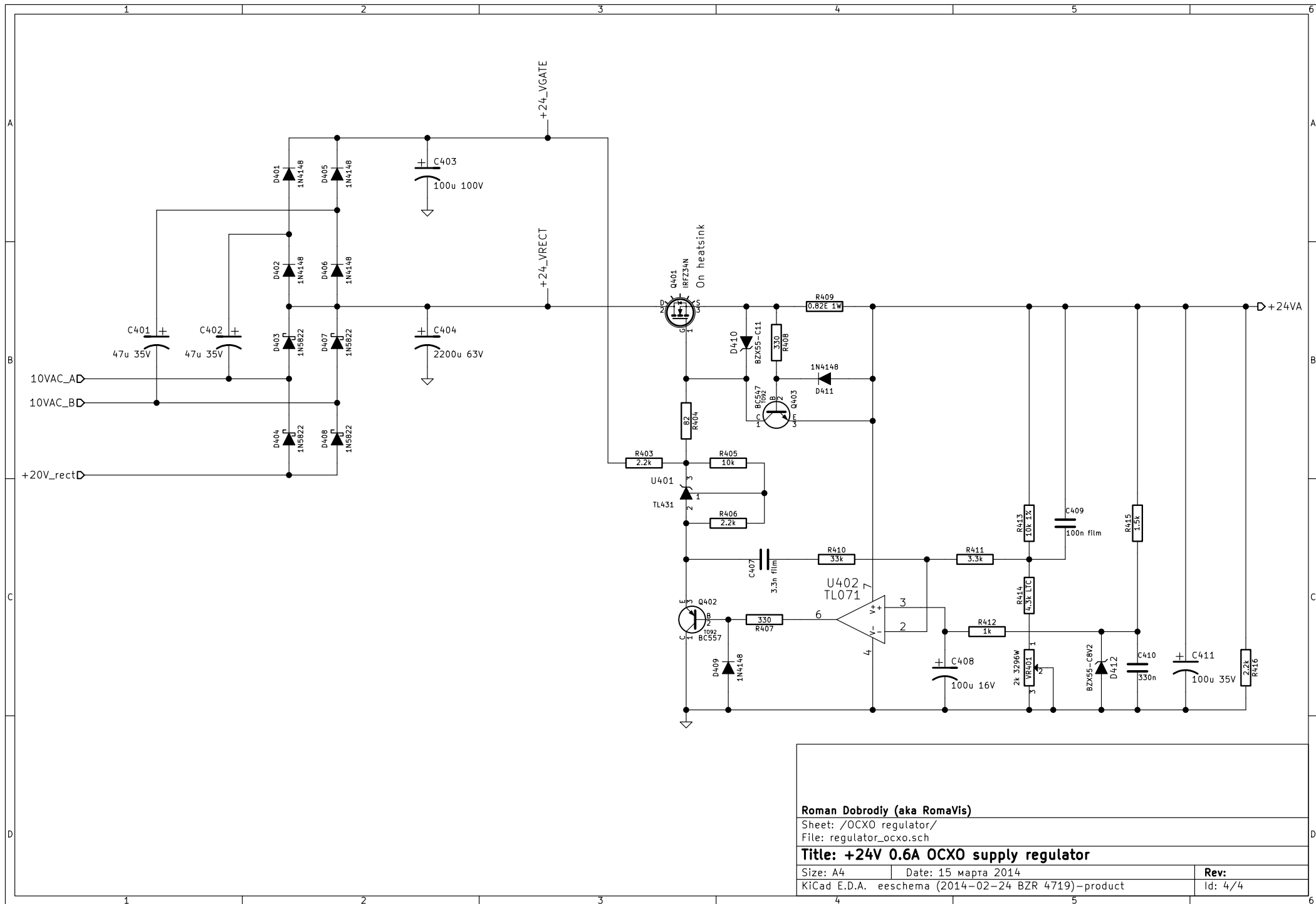
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Date: 14 марта 2014

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Rev:

Id: 3/4



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Sheet: /OCXO regulator/

File: regulator_ocxo.sch

Title: +24V 0.6A OCXO supply regulator

Size: A4 Date: 15 марта 2014

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Rev:

Id: 4/4