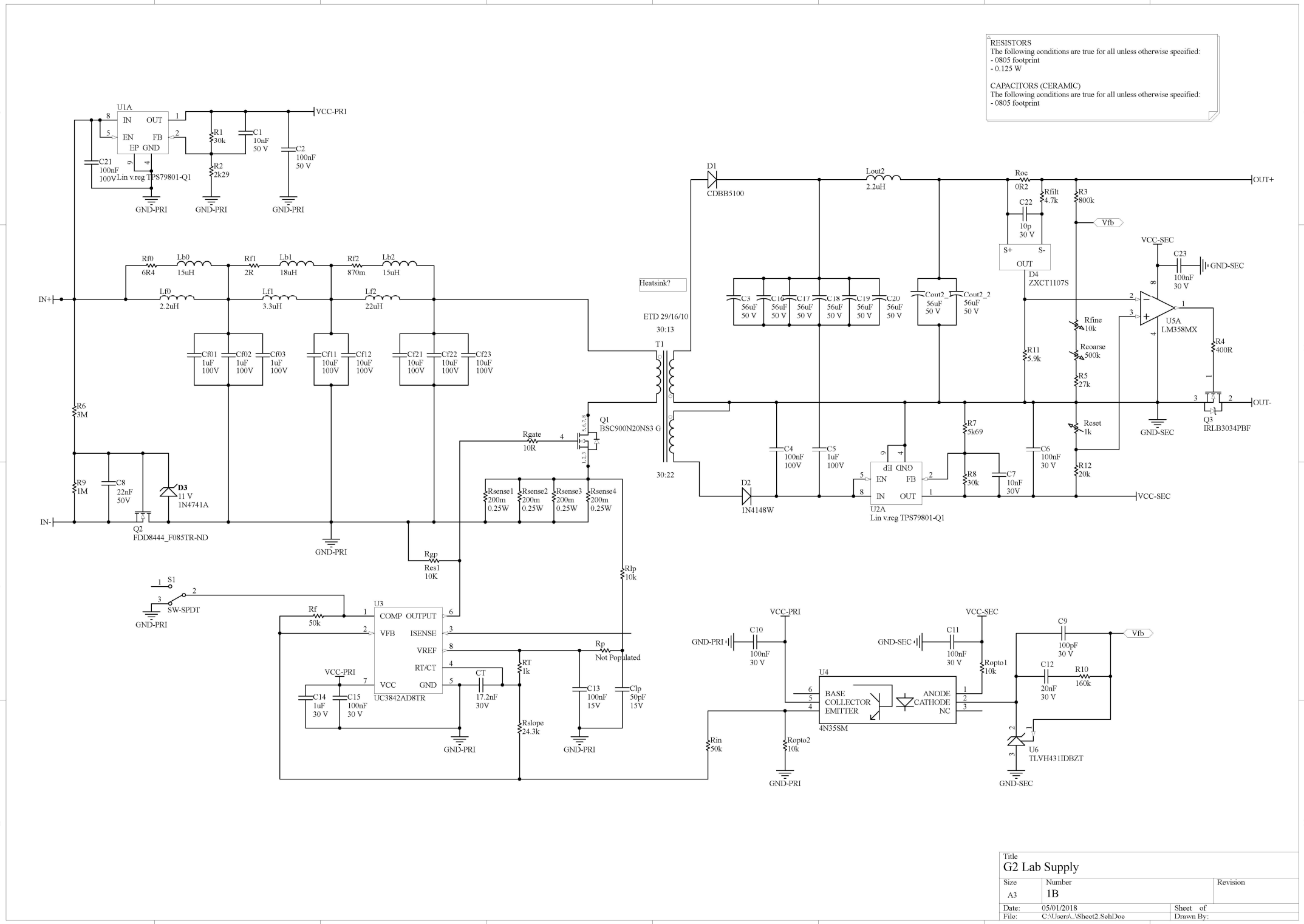
RESISTORS
The following conditions are true for all unless otherwise specified:
- 0805 footprint
- 0.125 W
CAPACITORS (CERAMIC)
The following conditions are true for all unless otherwise specified:
- 0805 footprint
U1A
IN OUT
EN FB
EP GND
Lin v.reg TPS79801-Q1
VCC-PRI
R1 30k
R2 2k29
C1 10nF 50 V
C2 100nF 50 V
C21 100nF 100V
GND-PRI
IN+
IN-
Rf0 6R4
Lb0 15uH
Rf1 2R
Lb1 18uH
Rf2 870m
Lb2 15uH
Lf0 2.2uH
Lf1 3.3uH
Lf2 22uH
Cf01 1uF 100V
Cf02 1uF 100V
Cf03 1uF 100V
Cf11 10uF 100V
Cf12 10uF 100V
Cf21 10uF 100V
Cf22 10uF 100V
Cf23 10uF 100V
R6 3M
R9 1M
C8 22nF 50V
D3 11 V 1N4741A
Q2 FDD8444_F085TR-ND
Heatsink?
ETD 29/16/10
30:13
T1
30:22
Q1 BSC900N20NS3 G
Rgate 10R
Rsense1 200m 0.25W
Rsense2 200m 0.25W
Rsense3 200m 0.25W
Rsense4 200m 0.25W
Rgp Res1 10K
Rlp 10k
S1 SW-SPDT
U3 UC3842AD8TR
COMP OUTPUT
VFB ISENSE
VREF
RT/CT
VCC GND
Rf 50k
Rp Not Populated
RT 1k
CT 17.2nF 30V
Rslope 24.3k
C13 100nF 15V
Clp 50pF 15V
C14 1uF 30 V
C15 100nF 30 V
D1 CDBB5100
D2 1N4148W
Lout2 2.2uH
C3 56uF 50 V
C16 56uF 50 V
C17 56uF 50 V
C18 56uF 50 V
C19 56uF 50 V
C20 56uF 50 V
Cout2_ 56uF 50 V
Cout2_2 56uF 50 V
C4 100nF 100V
C5 1uF 100V
U2A Lin v.reg TPS79801-Q1
EN FB
IN OUT
GND EP
R7 5k69
R8 30k
C7 10nF 30V
C6 100nF 30 V
Roc 0R2
Rfilt 4.7k
C22 10p 30 V
D4 ZXCT1107S
S+ S-
OUT
R3 800k
Vfb
Rfine 10k
Rcoarse 500k
R5 27k
Rcset 1k
R11 5.9k
R12 20k
VCC-SEC
C23 100nF 30 V
GND-SEC
U5A LM358MX
R4 400R
Q3 IRLB3034PBF
OUT+
OUT-
C10 100nF 30 V
C11 100nF 30 V
U4 4N35SM
BASE COLLECTOR EMITTER
ANODE CATHODE NC
Ropto1 10k
Ropto2 10k
Rin 50k
C9 100pF 30 V
C12 20nF 30 V
R10 160k
U6 TLVH431IDBZT
Title
G2 Lab Supply
Size A3
Number 1B
Revision
Date: 05/01/2018
Sheet of
File: C:\Users\...\Sheet2.SchDoc
Drawn By: