Sheet: /
File: minimal_ltc3350.kicad_sch
Title:
Size: A3   Date:
KiCad E.D.A. 9.0.4   Rev:
Id: 1/1

TP1
TP2
TP3
TP4
GND

VIN

Q1
20.0 V

R1
16 mΩ

VOUT
TP5
TP6
TP7
TP8
GND

C1
100 nF

C2
1 µF

GND

C10
47 µF

C11
47 µF

C12
2.2 µF

C13
2.2 µF

GND GND GND GND GND

R5
787 kΩ

PFI
37 PFI

R3
909 Ω

C3
120 pF

OUTFB
7 OUTFB

R6
100 kΩ

GND

R4
100 kΩ

GND

VCC2P5
23 VCC2P5

C4
1 µF

GND

OUTFET
20 OUTFET

Q2
20.0 V

TGATE 25 TGATE
INTVCC 29 INTVCC
DRVCC 28

D1
80.0 V

C5
100 nF

C6
4.7 µF

Q4
20 V

L1
3.3 µH

R9
6 mΩ

BST 26 BST

C7
100 nF

GND GND

R7
100 kΩ

R10
0 Ω

GND

CAP_SLCT1
36 CAP_SLCT1

R8
100 kΩ

R11
0 Ω

GND

CAP_SLCT0
35 CAP_SLCT0

SW 24 Sw
BGATE 27 BGATE

Q3
20 V

GND

ICAP 22 ICAP
VCAP 21 VCAP
CFP 17 CFP

C8
100 nF

C9
100 nF

R18
118 kΩ

887 kΩ
R17

S_ITST

100 Ω
R29

CFN 18 CFN
VCAPP5 19 VCAPP5
CAPFB 6 CAPFB

GND

R27
10 MΩ

Q5

100 Ω
R28

SCL
TP9
1 SCL

SDA
TP10
2 SDA

ITST 11 ITST

GND GND

VC
5 VC

10 nF
C14

0 Ω
R15

C15

GND

R19
2.7 Ω

CAP4 16 CAP4

VCAP

R14
2.7 Ω

R30
2.7 Ω

J1

C16
22 µF

C17
22 µF

VCAP

C18
22 µF

C19
22 µF

R20
2.7 Ω

Q6
D_VCAP

CAP3 15 CAP3

VCAP_3

R31
2.7 Ω

R32
2.7 Ω

J2

GND GND GND GND

INTVCC INTVCC INTVCC

D3
1.8 V

D2
1.8 V

D4
1.8 V

R21
2.7 Ω

Q7
D_VCAP3

CAP2 14 CAP2

VCAP_2

R33
2.7 Ω

R34
2.7 Ω

J3

R25
1 kΩ

R24
1 kΩ

R26
1 kΩ

R22
2.7 Ω

Q8
D_VCAP2

CAP1 13 CAP1

VCAP_1

R35
2.7 Ω

R36
2.7 Ω

J4

SMBALERT 3 SMBALERT
CAPGD 4 CAPGD
PFO 38 PFO

R23
2.7 Ω

Q9
D_VCAP1

CAPRTN 12 CAPRTN

GND

GPI 10 GPI
RT 9 RT

J5

R13
1 MΩ

R12
71.5 kΩ

PWR_FLAG

SGND 8 SGND
PGND 39 PGND

U1
LTC3350EUHF-PBF

GND GND GND GND GND

FID1
Fiducial

FID2
Fiducial

FID3
Fiducial