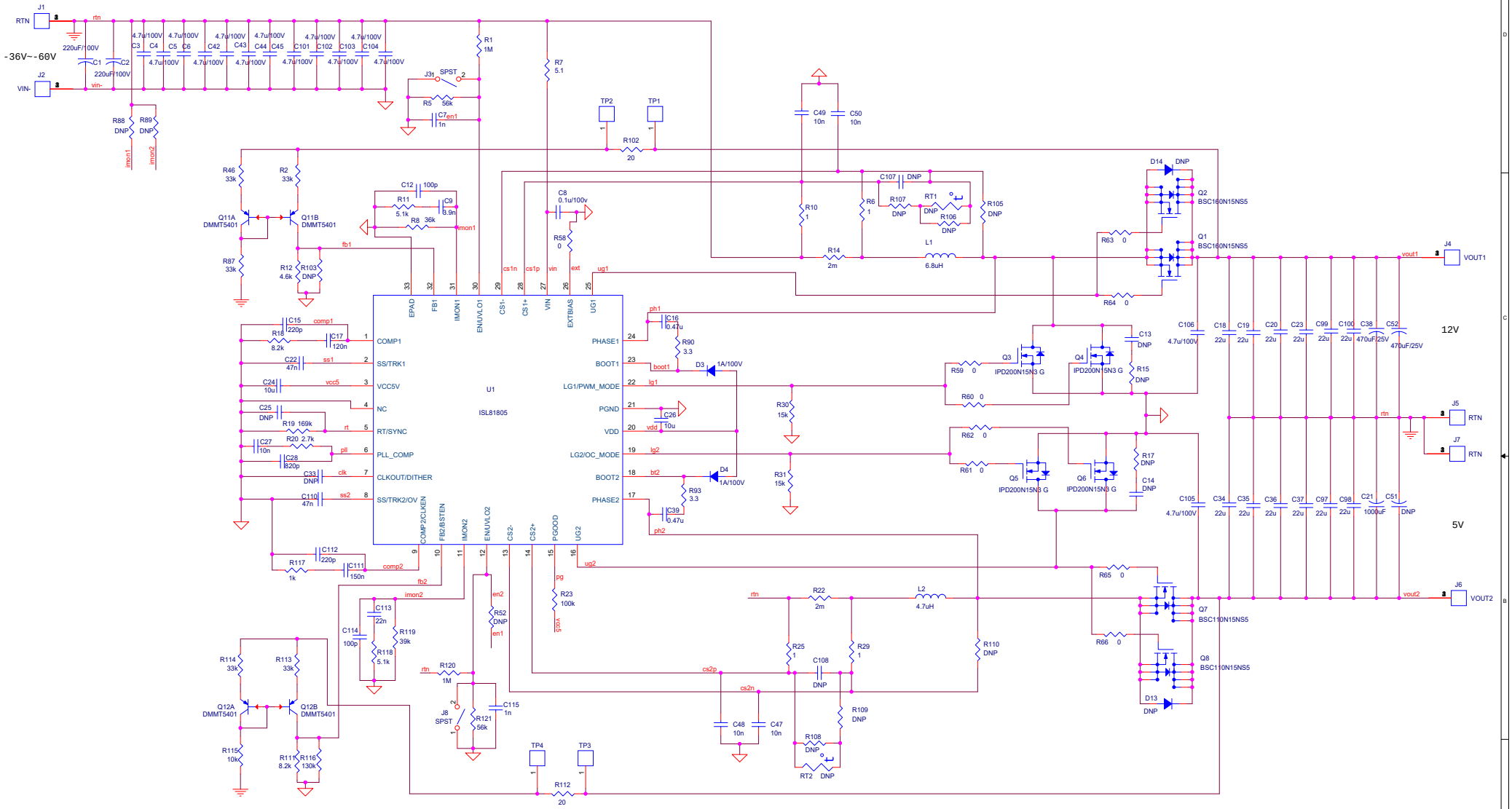
J1
RTN
J2
VIN-
-36V~-60V
220uF/100V
C1
C2
4.7u/100V
C3
C4
C5
C6
C42
C43
C44
C45
C101
C102
C103
C104
R88
DNP
R89
DNP
imon1
imon2
R1
1M
R7
5.1
J3
SPST
R5
56k
C7
1n
en1
TP2
TP1
R102
20
C49
10n
C50
10n
R46
33k
R2
33k
Q11A
DMMT5401
Q11B
DMMT5401
R87
33k
C12
100p
R11
5.1k
C9
8.9n
R8
36k
imon1
fb1
R12
4.6k
R103
DNP
C8
0.1u/100v
R58
0
cs1n
cs1p
vin
ext
ug1
R10
1
R6
1
C107
DNP
R107
DNP
RT1
DNP
R106
DNP
R105
DNP
R14
2m
L1
6.8uH
D14
DNP
Q2
BSC160N15NS5
Q1
BSC160N15NS5
R63
0
R64
0
vout1
J4
VOUT1
12V
C106
4.7u/100V
C18
22u
C19
22u
C20
22u
C23
22u
C99
22u
C100
22u
C38
470uF/25V
C52
470uF/25V
J5
RTN
J7
RTN
rtn
C105
4.7u/100V
C34
22u
C35
22u
C36
22u
C37
22u
C97
22u
C98
22u
C21
1000uF
C51
DNP
5V
EPAD
FB1
IMON1
ENUVLO1
CS1-
CS1+
VIN
EXTBIAS
UG1
U1
ISL81805
COMP1
SS/TRK1
VCC5V
NC
RT/SYNC
PLL_COMP
CLKOUT/DITHER
SS/TRK2/OV
PHASE1
BOOT1
LG1/PWM_MODE
PGND
VDD
LG2/OC_MODE
BOOT2
PHASE2
C15
220p
comp1
R18
8.2k
C17
120n
C22
47n
ss1
C24
10u
vcc5
C25
DNP
R19
169k
rt
C27
10n
R20
2.7k
pll
C28
820p
C33
DNP
clk
C110
47n
ss2
ph1
C16
0.47u
R90
3.3
D3
1A/100V
boot1
lg1
C26
10u
vdd
lg2
D4
1A/100V
bt2
R93
3.3
C39
0.47u
ph2
R30
15k
R31
15k
R59
0
Q3
IPD200N15N3 G
Q4
IPD200N15N3 G
R60
0
R62
0
R61
0
Q5
IPD200N15N3 G
Q6
IPD200N15N3 G
C13
DNP
R15
DNP
R17
DNP
C14
DNP
COMP2/CLKEN
FB2/BSTEN
IMON2
ENUVLO2
CS2-
CS2+
PGOOD
UG2
C112
220p
C111
150n
comp2
R117
1k
fb2
imon2
C113
22n
R119
39k
C114
100p
R118
5.1k
en2
R52
DNP
en1
pg
R23
100k
vcc5
ug2
R65
0
R66
0
Q7
BSC110N15NS5
Q8
BSC110N15NS5
D13
DNP
rtn
R22
2m
L2
4.7uH
R25
1
R29
1
C108
DNP
R110
DNP
R109
DNP
R108
DNP
RT2
DNP
cs2p
cs2n
C48
10n
C47
10n
R114
33k
R113
33k
Q12A
DMMT5401
Q12B
DMMT5401
R115
10k
R111
8.2k
R116
130k
R120
1M
J8
SPST
R121
56k
C115
1n
TP4
TP3
R112
20
vout2
J6
VOUT2
Title
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Size
C
Document Number
ISL81805EVAL3Z
Rev
A
Date:
03/09/2021
Sheet
1
of
1