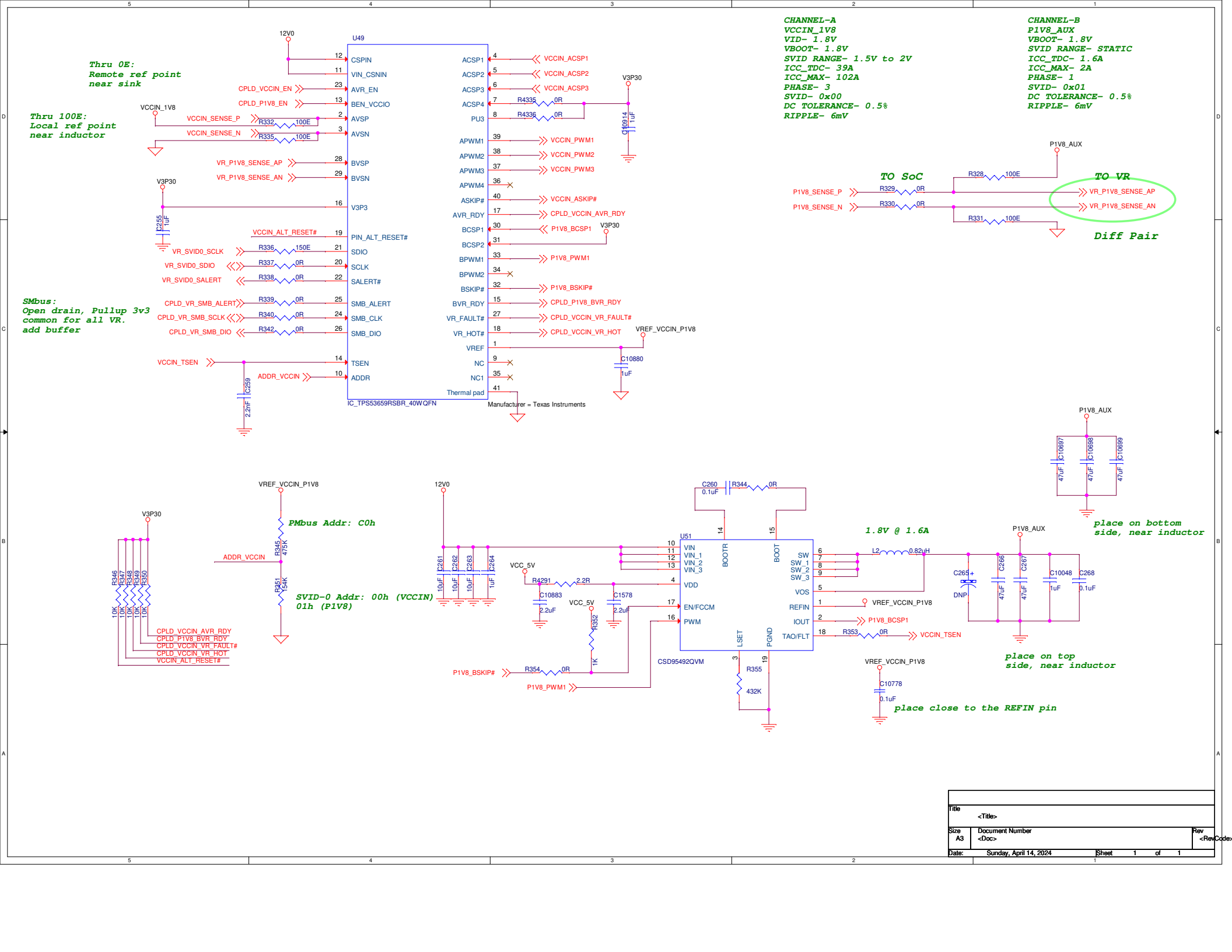
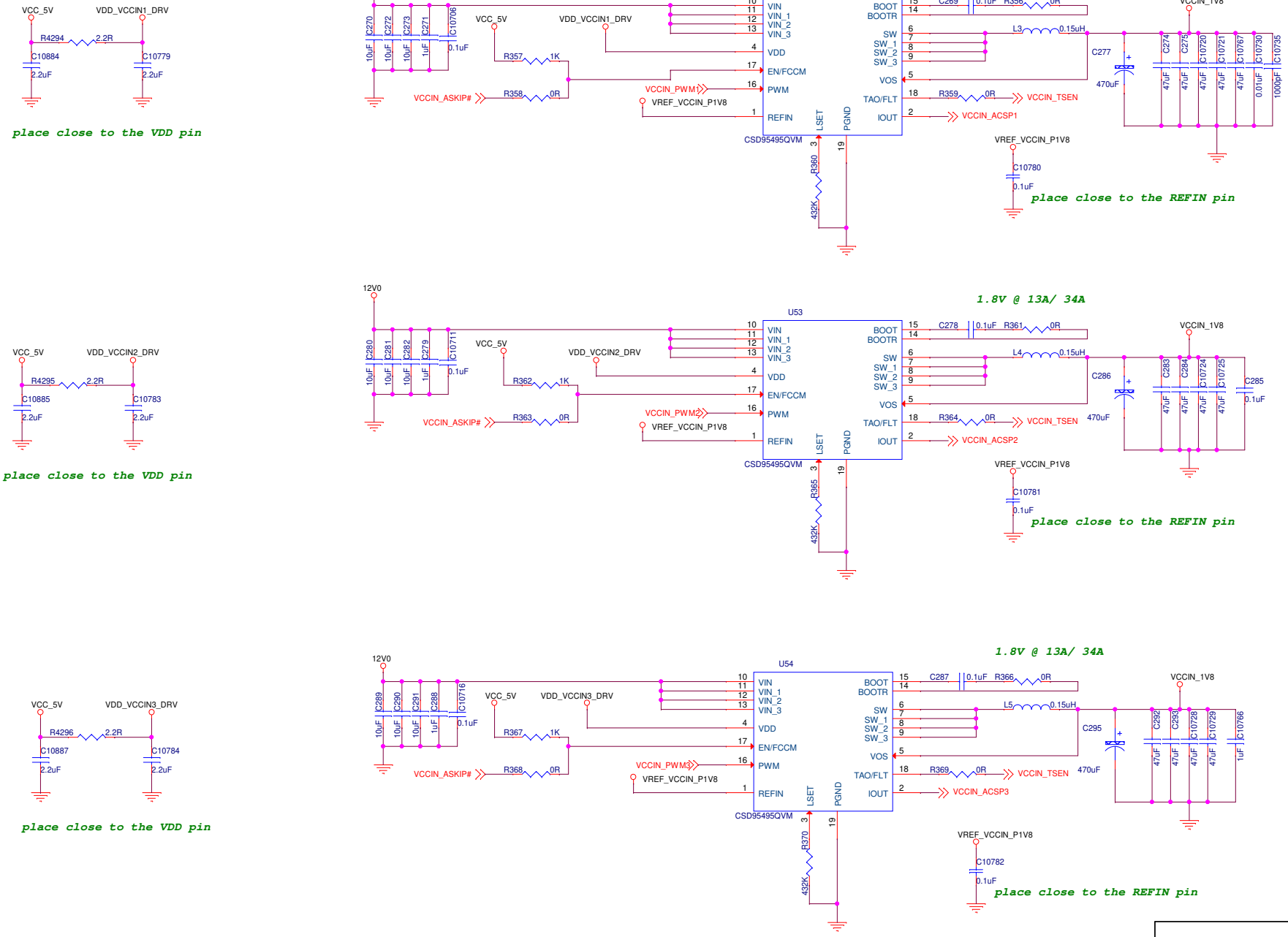

CHANNEL-A
VCCIN_1V8
VID- 1.8V
VBOOT- 1.8V
SVID RANGE- 1.5V to 2V
ICC_TDC- 39A
ICC_MAX- 102A
PHASE- 3
SVID- 0x00
DC TOLERANCE- 0.5%
RIPPLE- 6mV
CHANNEL-B
P1V8_AUX
VBOOT- 1.8V
SVID RANGE- STATIC
ICC_TDC- 1.6A
ICC_MAX- 2A
PHASE- 1
SVID- 0x01
DC TOLERANCE- 0.5%
RIPPLE- 6mV
Thru 0E:
Remote ref point
near sink
Thru 100E:
Local ref point
near inductor
SMbus:
Open drain, Pullup 3v3
common for all VR.
add buffer
U49
IC_TPS53659RSBR_40WQFN
Manufacturer = Texas Instruments
TO SoC
TO VR
Diff Pair
PMbus Addr: C0h
SVID-0 Addr: 00h (VCCIN)
01h (P1V8)
U51
CSD95492QVM
1.8V @ 1.6A
place on bottom
side, near inductor
place on top
side, near inductor
place close to the REFIN pin
Title
<Title>
Size A3
Document Number
<Doc>
Rev
<RevCode>
Date: Sunday, April 14, 2024
Sheet 1 of 1


VCC_5V
VDD_VCCIN1_DRV
R4294
2.2R
C10884
2.2uF
C10779
2.2uF
place close to the VDD pin
12V0
U52
1.8V @ 13A/ 34A
VIN
VIN_1
VIN_2
VIN_3
VDD
EN/FCCM
PWM
REFIN
BOOT
BOOTR
SW
SW_1
SW_2
SW_3
VOS
TAO/FLT
IOUT
LSET
PGND
CSD95495QVM
C270
C272
C273
C271
C10706
0.1uF
R357
1K
R358
0R
VCCIN_ASKIP#
VCCIN_PWM1
VREF_VCCIN_P1V8
C269
0.1uF
R356
0R
L3
0.15uH
C277
470uF
R359
0R
VCCIN_TSEN
VCCIN_ACSP1
R360
432K
VCCIN_1V8
C274
C275
C10720
C10721
C10767
C10730
C10735
0.01uF
1000pF
C10780
0.1uF
place close to the REFIN pin
VCC_5V
VDD_VCCIN2_DRV
R4295
2.2R
C10885
2.2uF
C10783
2.2uF
place close to the VDD pin
12V0
U53
1.8V @ 13A/ 34A
C280
C281
C282
C279
C10711
0.1uF
R362
1K
R363
0R
VCCIN_ASKIP#
VCCIN_PWM2
VREF_VCCIN_P1V8
C278
0.1uF
R361
0R
L4
0.15uH
C286
470uF
R364
0R
VCCIN_TSEN
VCCIN_ACSP2
R365
432K
VCCIN_1V8
C283
C284
C10724
C10725
C285
0.1uF
C10781
0.1uF
place close to the REFIN pin
VCC_5V
VDD_VCCIN3_DRV
R4296
2.2R
C10887
2.2uF
C10784
2.2uF
place close to the VDD pin
12V0
U54
1.8V @ 13A/ 34A
C289
C290
C291
C288
C10716
0.1uF
R367
1K
R368
0R
VCCIN_ASKIP#
VCCIN_PWM3
VREF_VCCIN_P1V8
C287
0.1uF
R366
0R
L5
0.15uH
C295
470uF
R369
0R
VCCIN_TSEN
VCCIN_ACSP3
R370
432K
VCCIN_1V8
C292
C293
C10728
C10729
C10766
1uF
C10782
0.1uF
place close to the REFIN pin
Title
<Title>
Size
A3
Document Number
<Doc>
Rev
<RevCode>
Date:
Sunday, April 14, 2024
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1
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