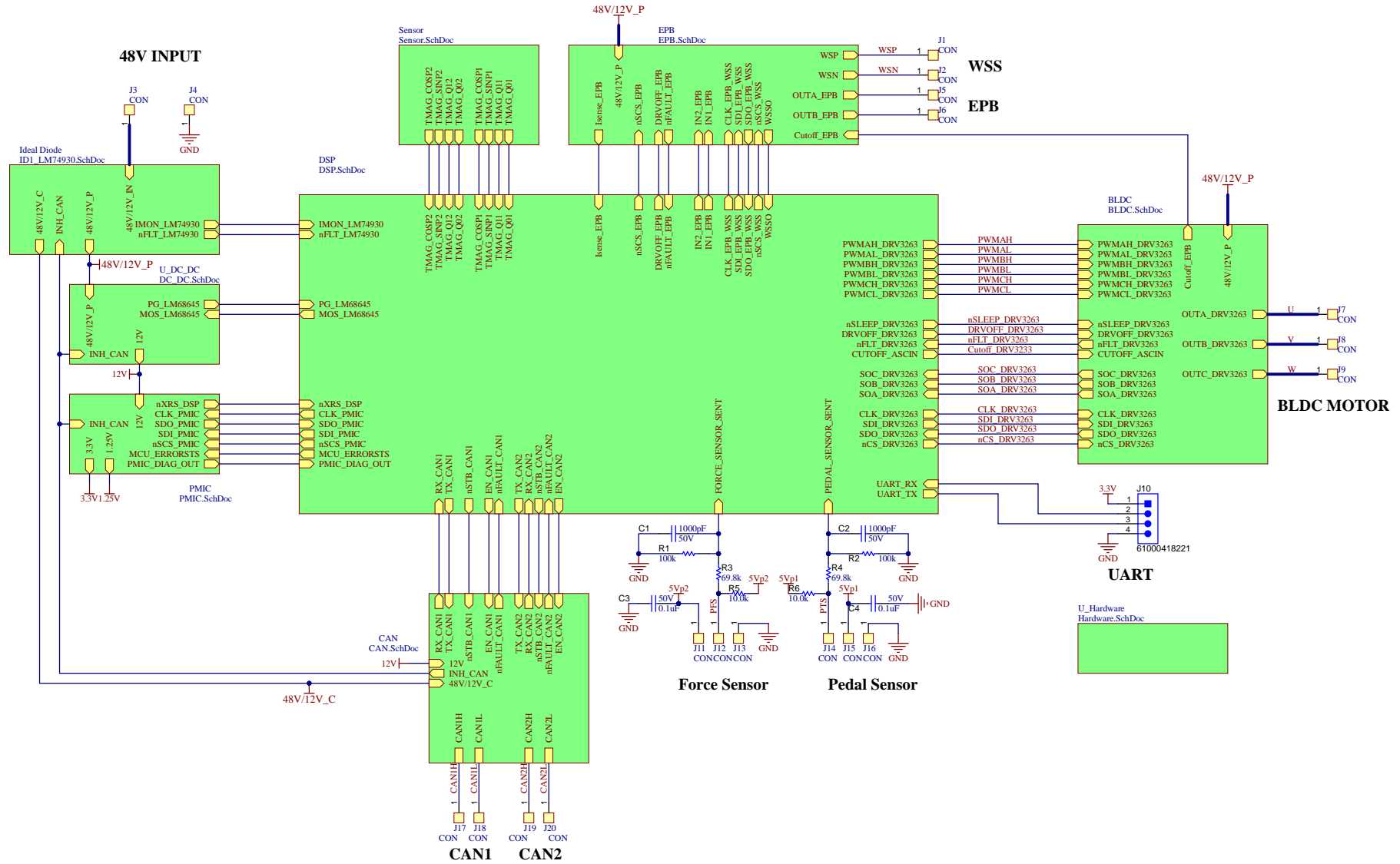


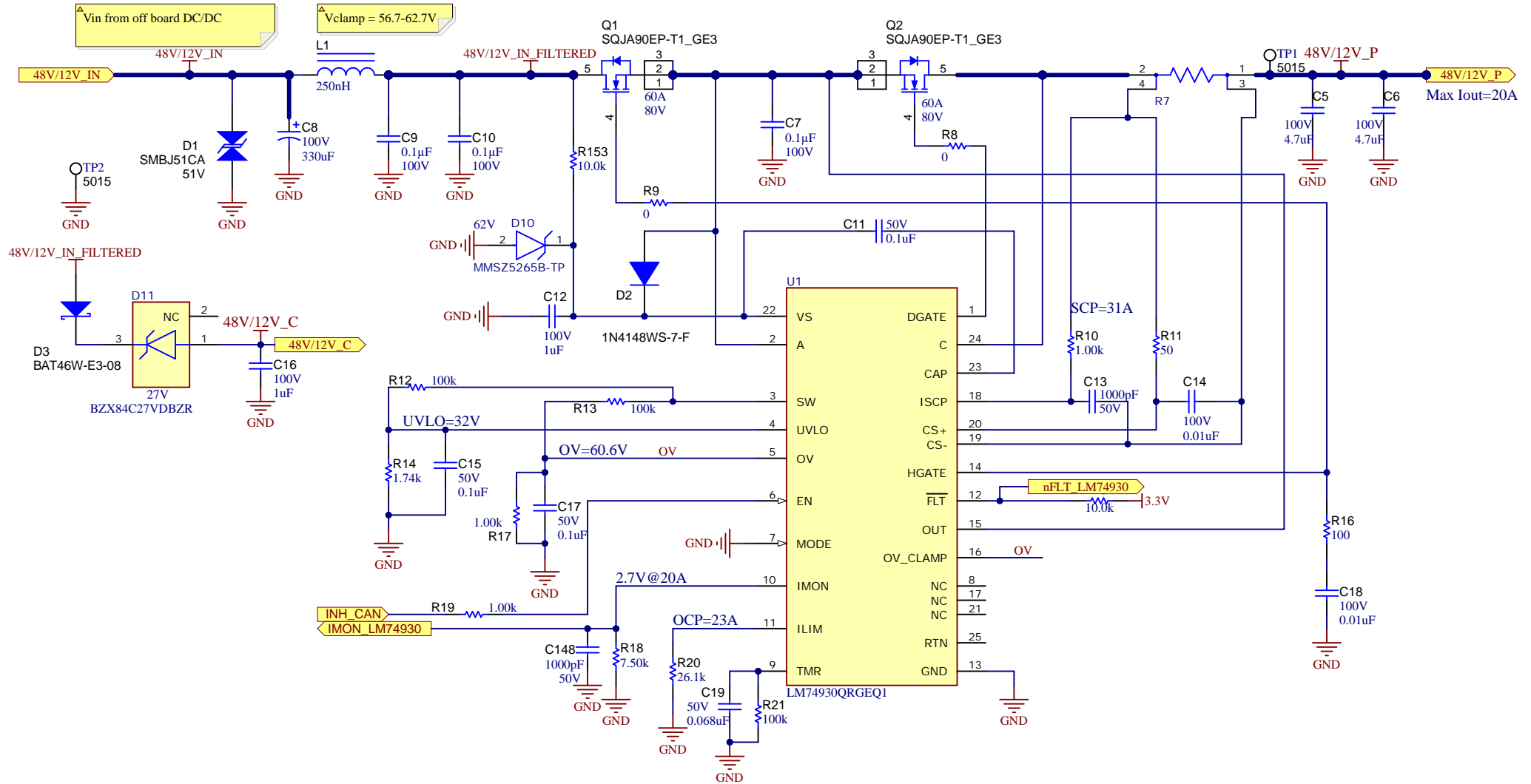
MAIN



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TID #: TIDA-020106	Project Title: TIDA-020106	
Number: TIDA-020106	Rev: VerA	Sheet Title: Main
SVN Rev: Not in version control	Assembly Variant: 48V	Sheet: 2 of 15
Drawn By: Hely Zhang	File: Main.SchDoc	Size: B
Engineer: Hely Zhang	Contact: http://www.ti.com/support	http://www.ti.com
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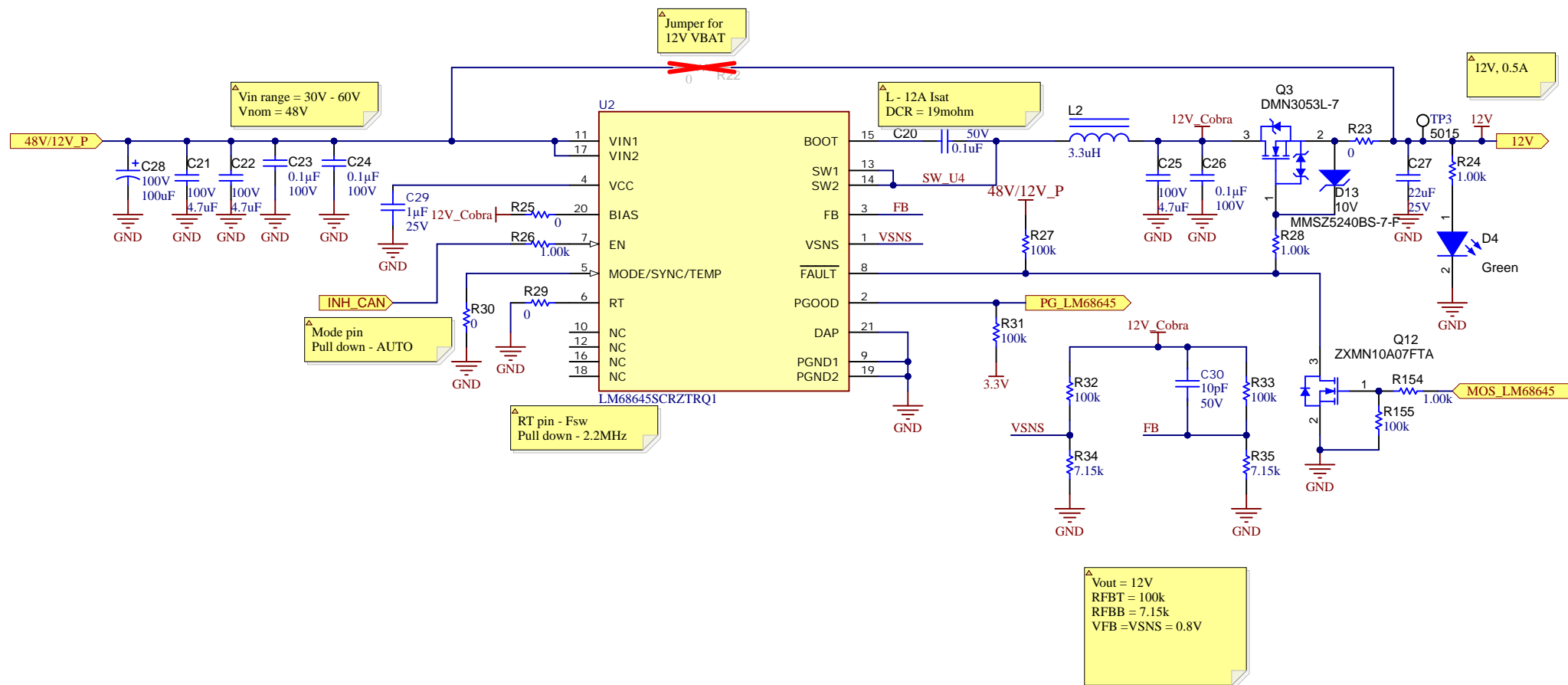
Ideal Diode



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Orderable: NO	Designed for: Public Release	Mod. Date: 4/2/2026
TID #: TIDA-020106	Project Title: TIDA-020106	
Number: TIDA-020106	Rev: VerA	Sheet Title: LM25143-Q1 Two Phases
SVN Rev: Not in version control	Assembly Variant: 48V	Sheet: 3 of 15
Drawn By: Hely Zhang	File: ID1_LM74930.SchDoc	Size: A4
Engineer: Hely Zhang	Contact: http://www.ti.com/support	

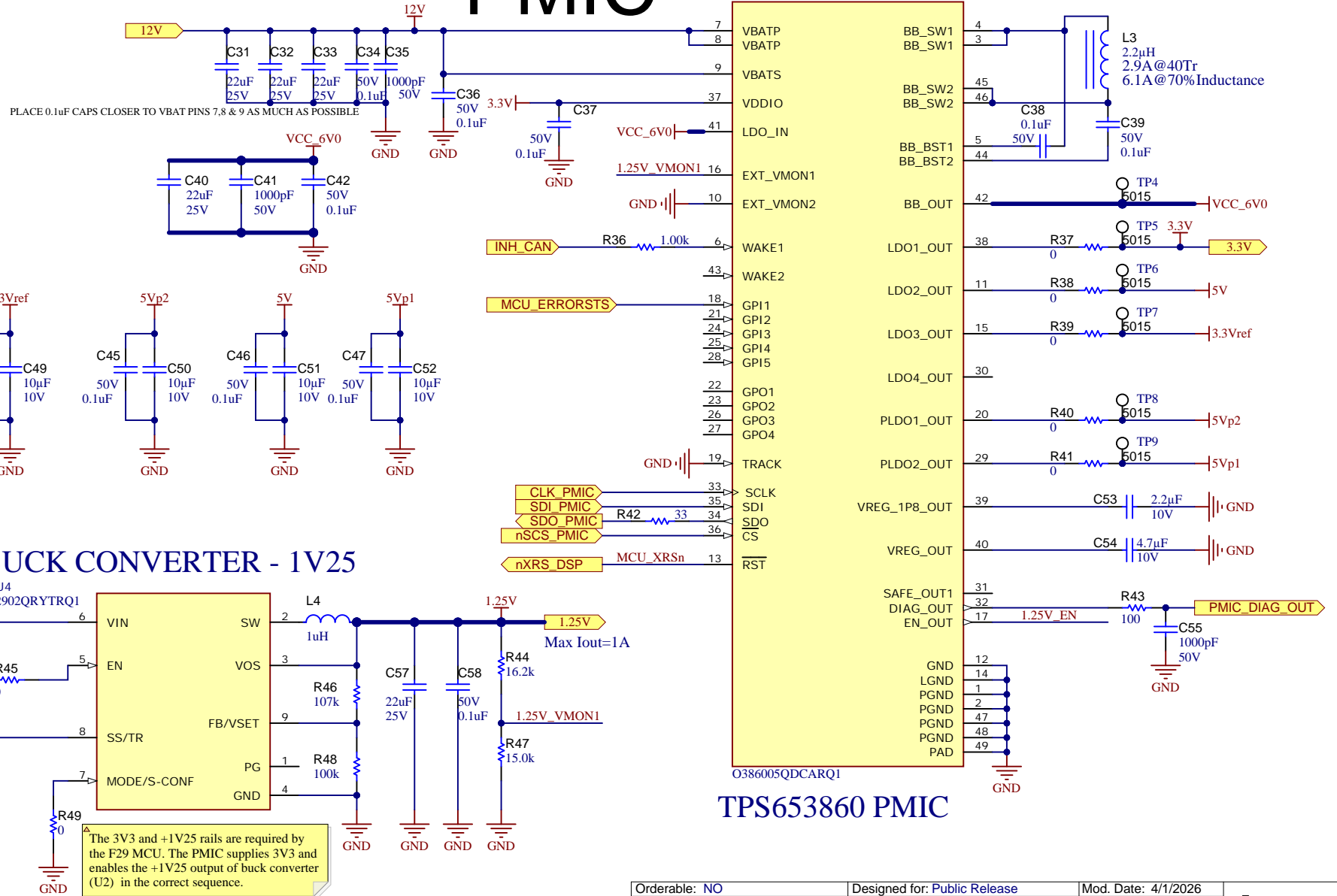
DC/DC



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TID #: TIDA-020106	Project Title: TIDA-020106	
Number: TIDA-020106	Rev: VerA	Sheet Title: DC/DC
SVN Rev: Not in version control	Assembly Variant: 48V	Sheet: 4 of 15
Drawn By: Hely Zhang	File: DC_DC.SchDoc	Size: A4
Engineer: Hely Zhang	Contact: http://www.ti.com/support	

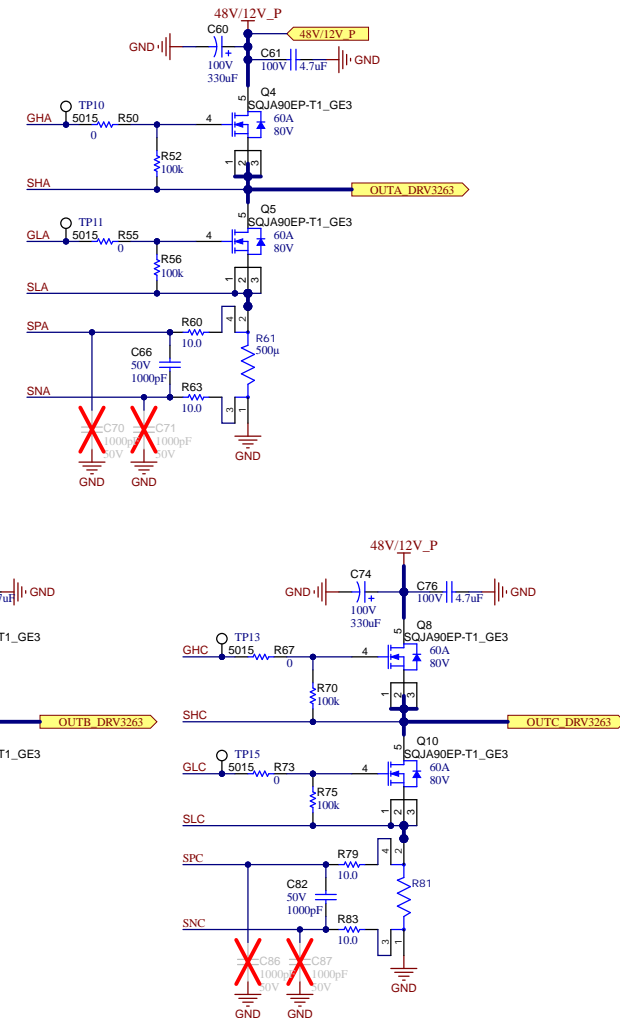
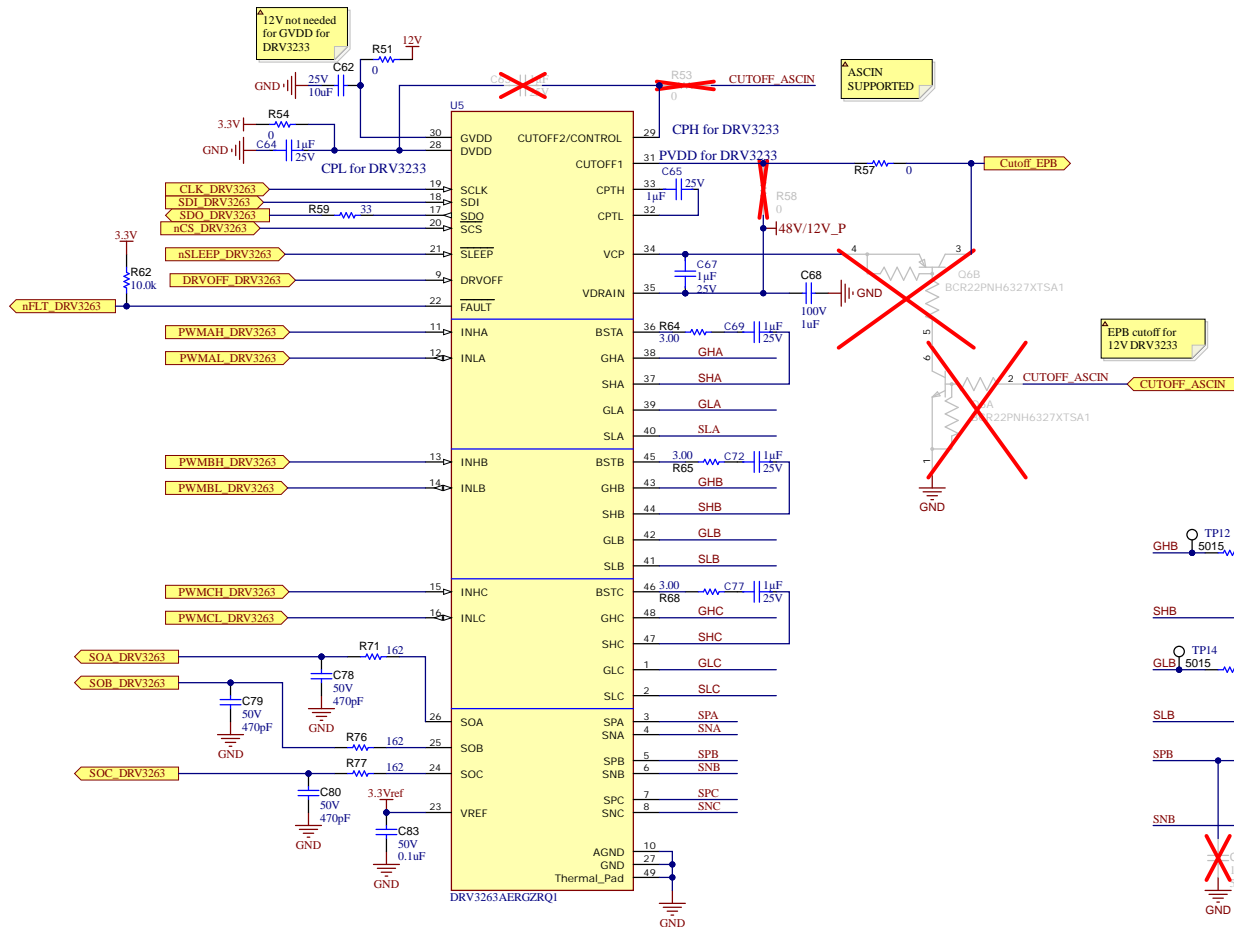
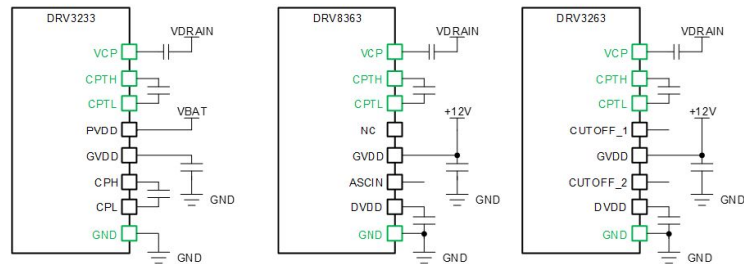
PMIC



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Orderable: NO	Designed for: Public Release	Mod. Date: 4/1/2026
TID #: UDA-020106	Project Title: TIDA-020106	
Number: TIDA-020106	Rev: VerA	Sheet Title: PMIC
SVN Rev: Not in version control	Assembly Variant: 48V	Sheet: 5 of 15
Drawn By: Hely Zhang	File: PMIC.SchDoc	Size: A4
Engineer: Hely Zhang	Contact: http://www.ti.com/support	

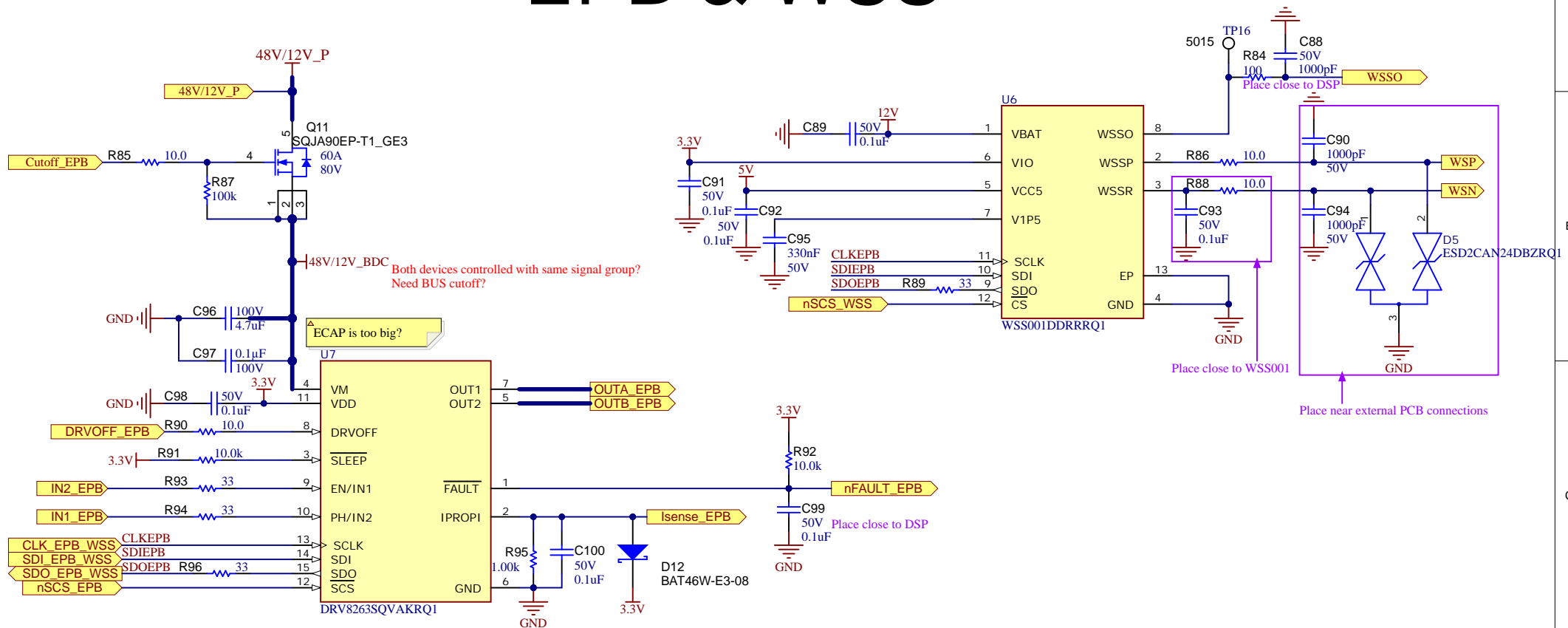
BLDC Motor Drive




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Orderable: NO	Designed for: Public Release	Mod. Date: 4/15/2026
TID #: TIDA-020106	Project Title: TIDA-020106	
Number: TIDA-020106	Rev: VerA	Sheet Title: BLDC
SVN Rev: Not in version control	Assembly Variant: 48V	Sheet 6 of 15
Drawn By: Hely Zhang	File: BLDC_SchDoc	Size: B
Engineer: Hely Zhang	Contact: http://www.ti.com/support	http://www.ti.com

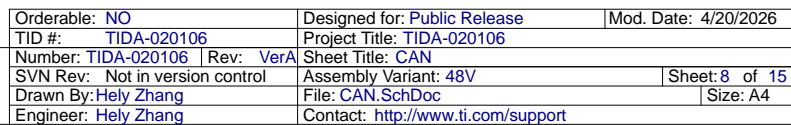
EPB & WSS



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TID #: TIDA-020106	Project Title: TIDA-020106		
Number: TIDA-020106	Rev: VerA	Sheet Title: EPB & WSS	
SVN Rev: Not in version control	Assembly Variant: 48V	Sheet: 7 of 15	
Drawn By: Hely Zhang	File: EPB.SchDoc	Size: A4	
Engineer: Hely Zhang	Contact: http://www.ti.com/support		

CAN1 with wakeup

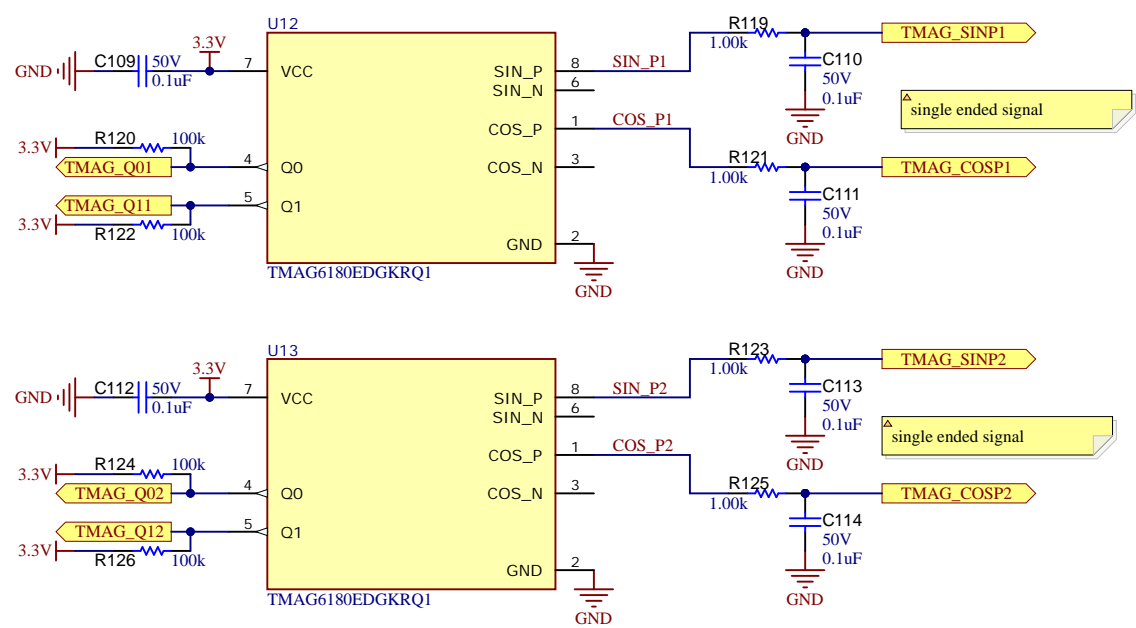


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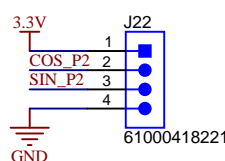
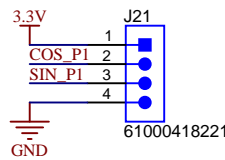


Rotor Position Sensor

Onboard AMR sensor



Offboard Inductive Sensor

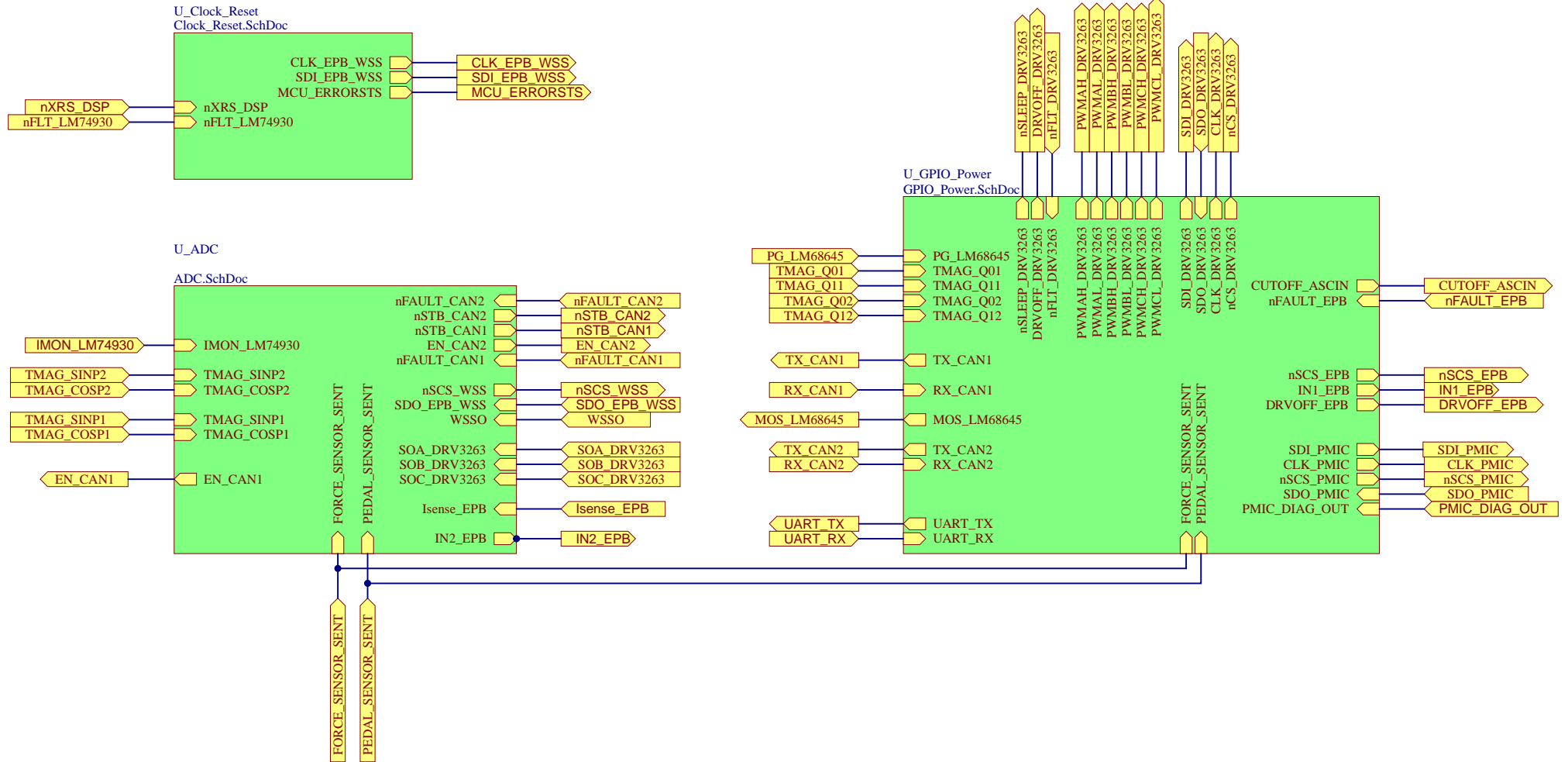


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TID #: TIDA-020106	Project Title: TIDA-020106	
Number: TIDA-020106	Rev: VerA	Sheet Title: Sensor
SVN Rev: Not in version control	Assembly Variant: 48V	Sheet: 9 of 15
Drawn By: Hely Zhang	File: Sensor.SchDoc	Size: A4
Engineer: Hely Zhang	Contact: http://www.ti.com/support	

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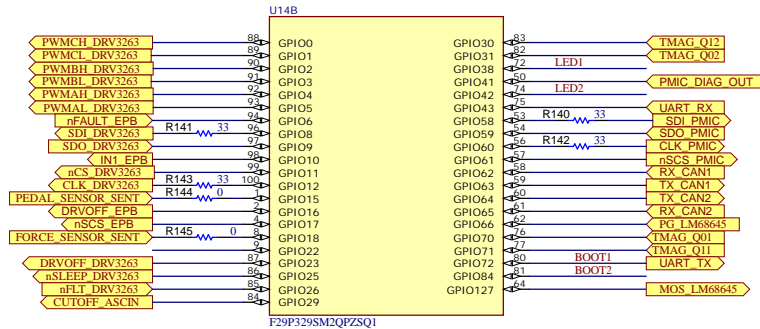
DSP



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Orderable: NO	Designed for: Public Release	Mod. Date: 3/31/2026
TID #: TIDA-020106	Project Title: TIDA-020106	
Number: TIDA-020106	Rev: VerA	Sheet Title: DSP
SVN Rev: Not in version control	Assembly Variant: 48V	Sheet: 10 of 15
Drawn By: Hely Zhang	File: DSP.SchDoc	Size: A4
Engineer: Hely Zhang	Contact: http://www.ti.com/support	

GPIO and Power

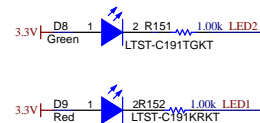


Boot Mode Selection Switch

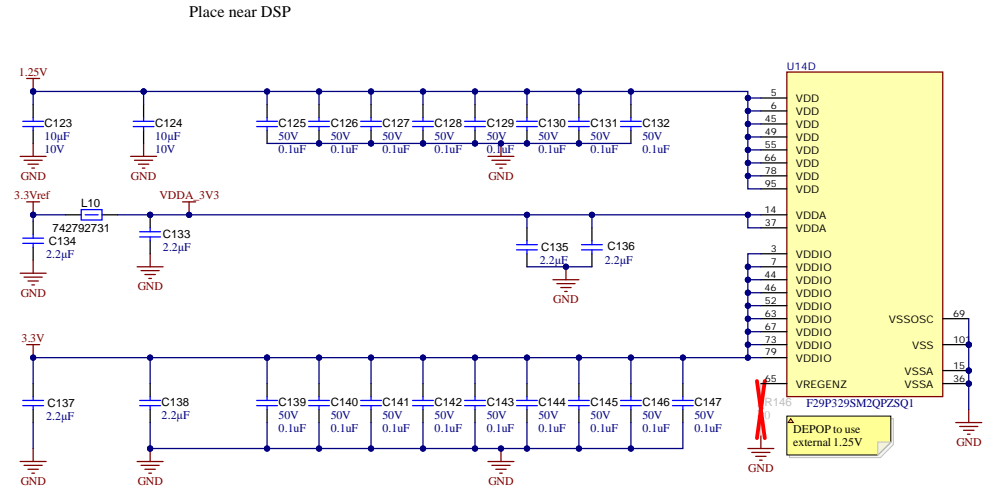


Boot Mode Selection Chart			
Modes	GPIO72	GPIO84	Boot Modes
00	0	0	Boot from Parallel GPIO
01	0	1	Boot from UART / Wait Mode
02	1	0	Boot from CAN
03	1	1	Boot from Flash*

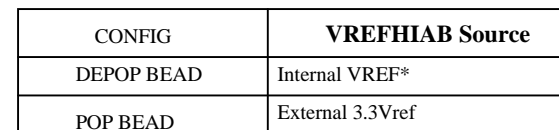
*Default



User LEDs



U14A

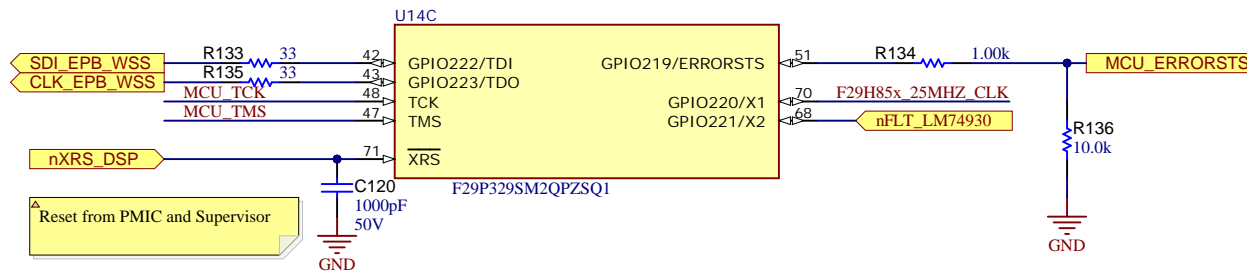


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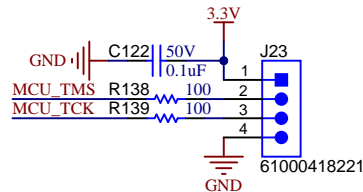
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CLOCK AND RESET

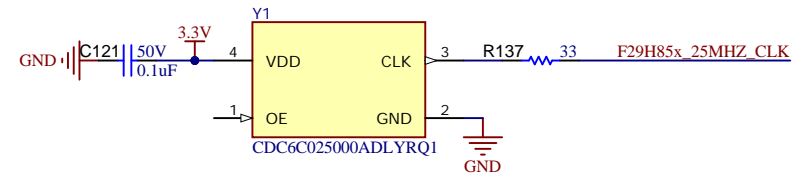
Reset and JTAG



Emulator Connector



Clock



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TID #: TIDA-020106	Project Title: TIDA-020106	
Number: TIDA-020106	Rev: VerA	Sheet Title: Clock&Reset
SVN Rev: Not in version control	Assembly Variant: 48V	Sheet: 13 of 15
Drawn By: Hely Zhang	File: Clock_Reset.SchDoc	Size: A4
Engineer: Hely Zhang	Contact: http://www.ti.com/support	



PCB Number: TIDA-020106
PCB Rev: VerA

PCB
LOGO
Texas Instruments



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LOGO
FCC disclaimer

PCB
LOGO
WEEE logo



CAUTION HOT SURFACE



DANGER HIGH VOLTAGE

LBL1

PCB Label

TH1-14-423-10
Size: 0.65" x 0.20"

Variant/Label Table

Variant	Label Text
001	ChangeMe!
002	ChangeMe!

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