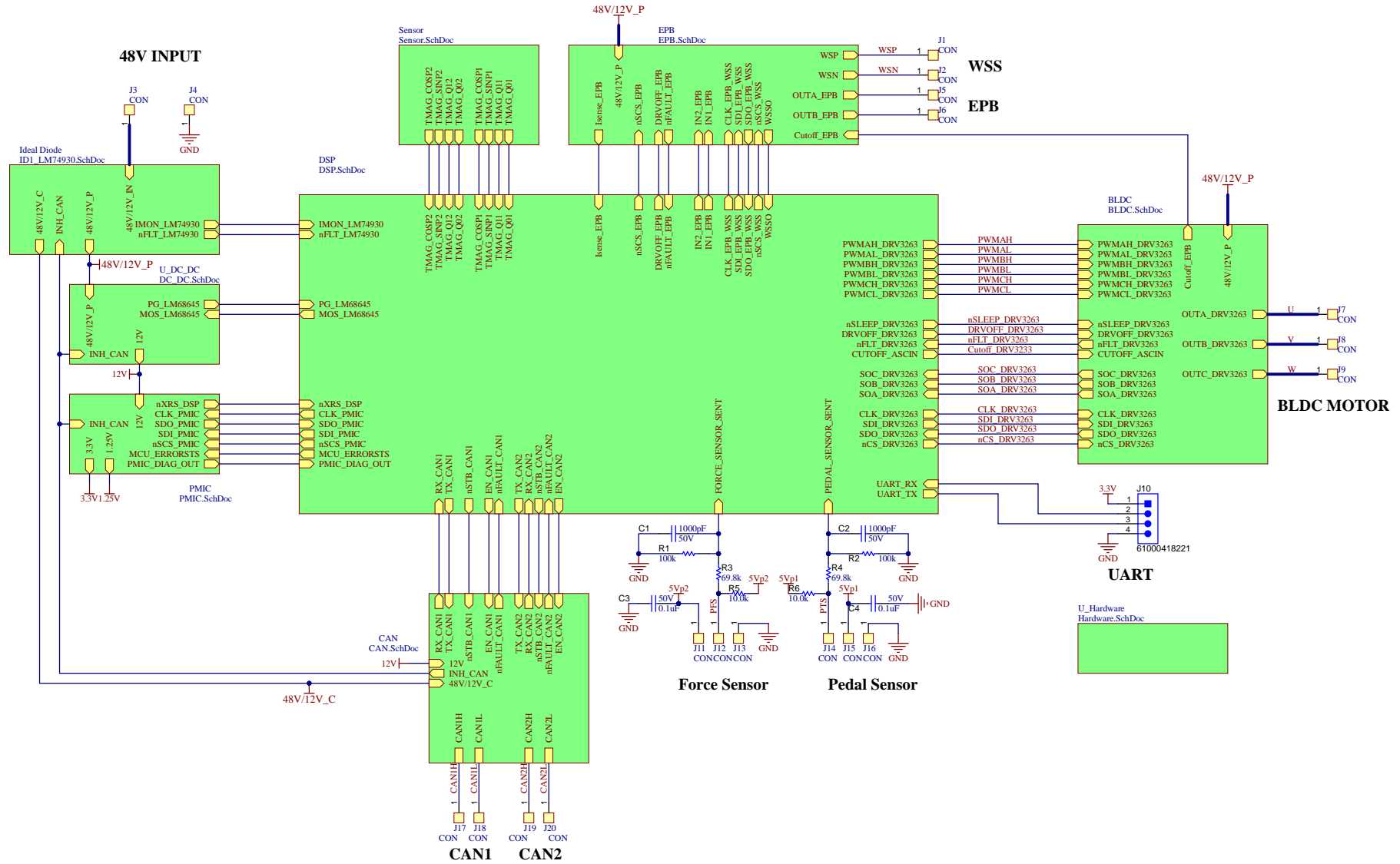


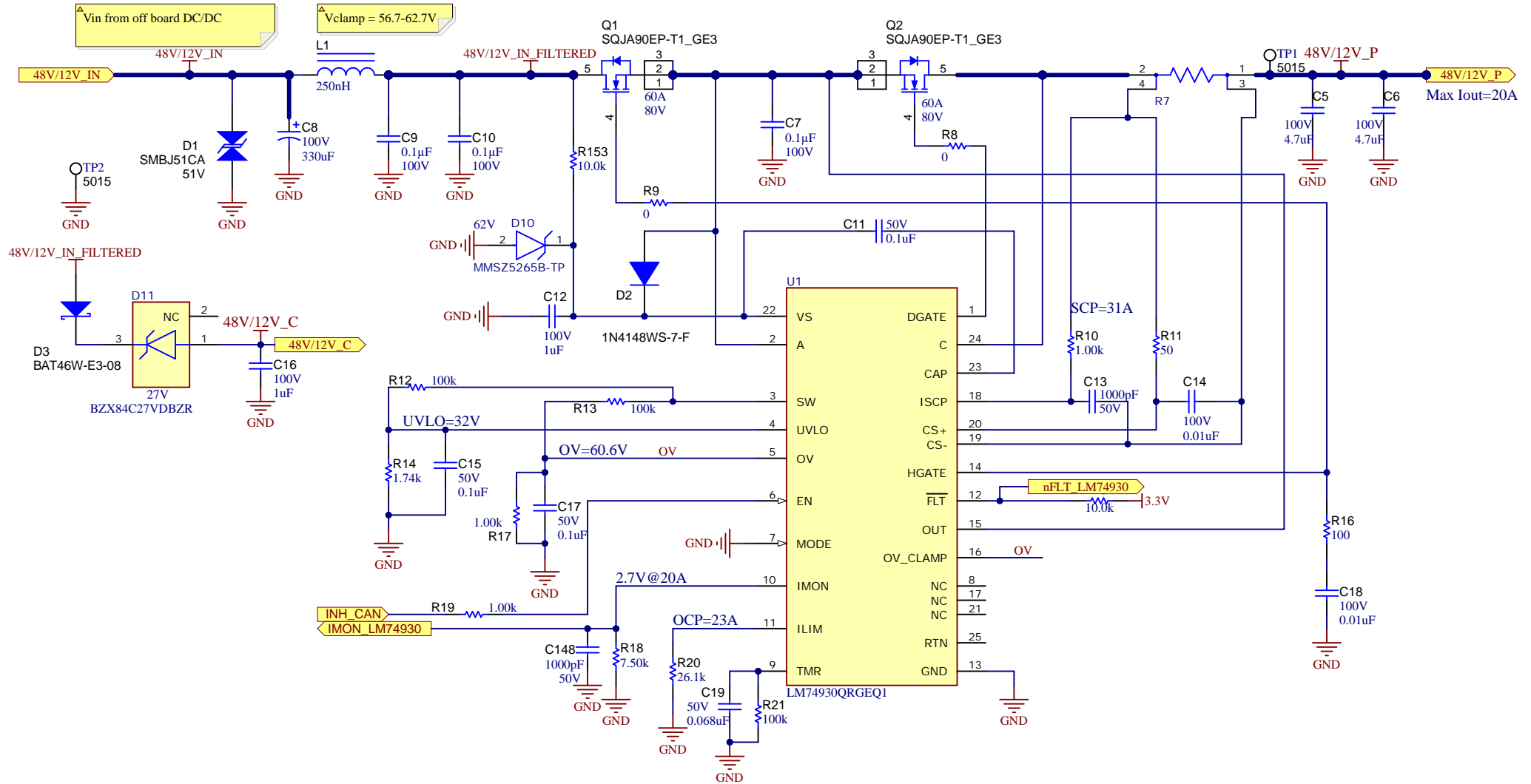
# MAIN



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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: 12V	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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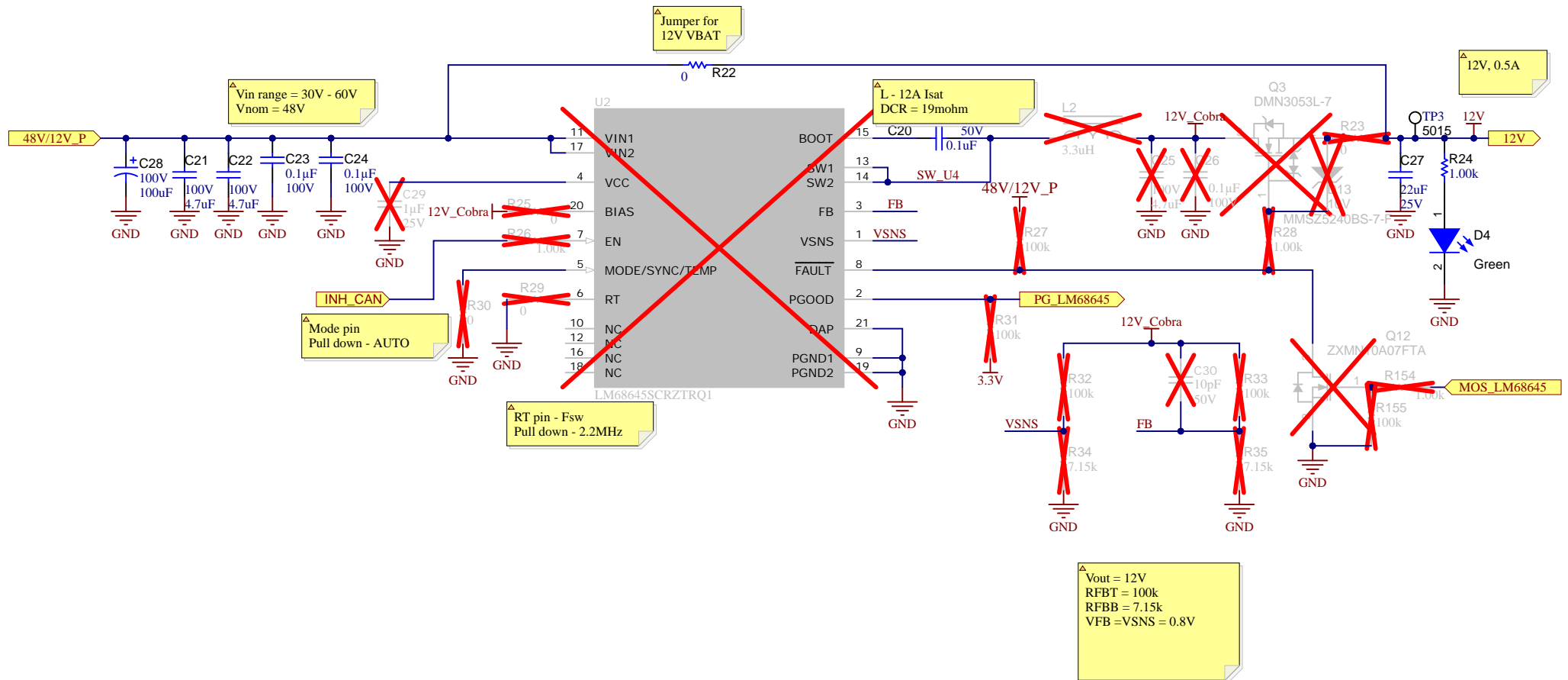
# Ideal Diode



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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: 12V	Sheet: 3 of 15
Drawn By: Hely Zhang	File: ID1_LM74930.SchDoc	Size: A4
Engineer: Hely Zhang	Contact: <a href="http://www.ti.com/support">http://www.ti.com/support</a>	

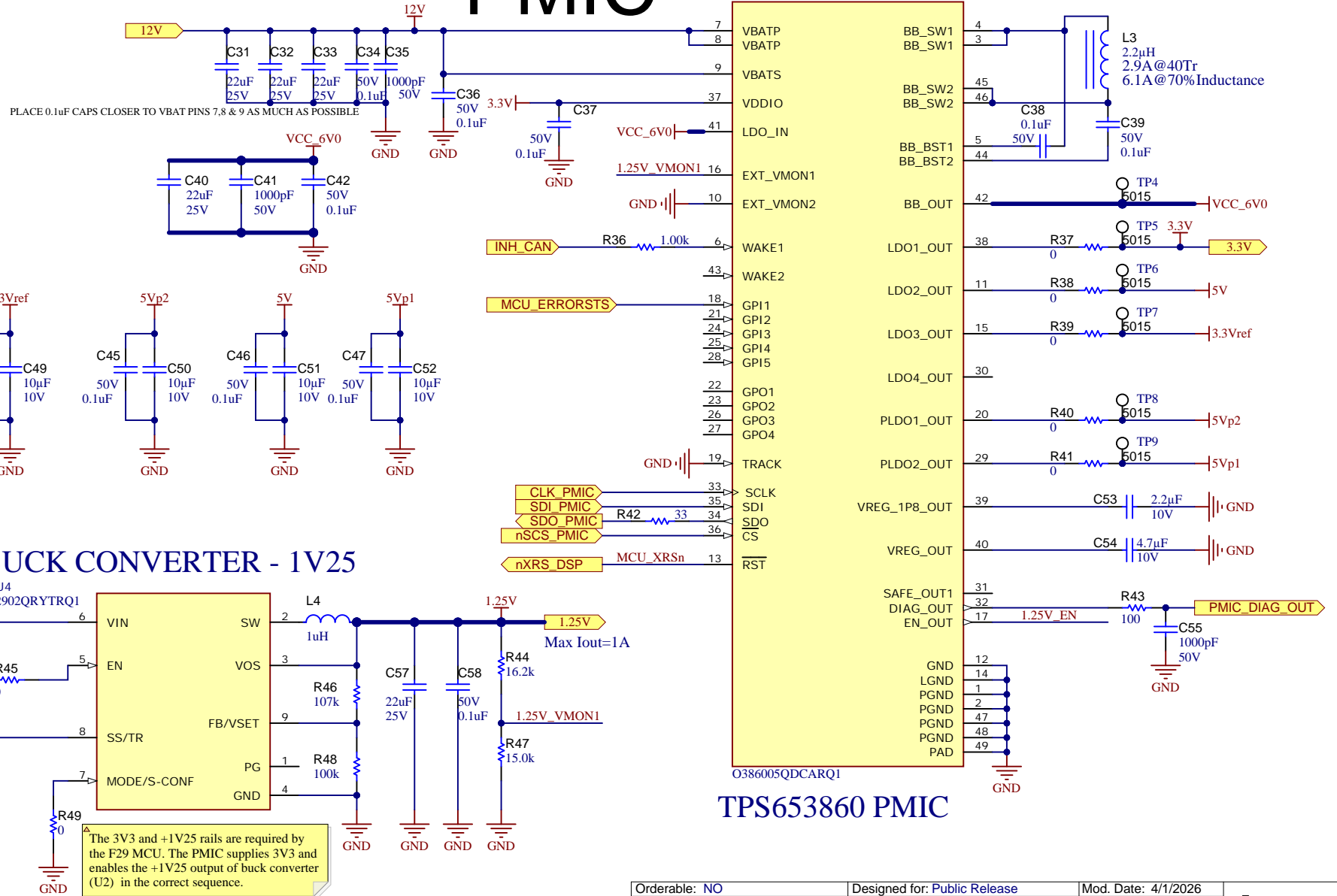
# DC/DC



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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: 12V	Sheet: 4 of 15
Drawn By: Hely Zhang	File: DC_DC.SchDoc	Size: A4
Engineer: Hely Zhang	Contact: <a href="http://www.ti.com/support">http://www.ti.com/support</a>	

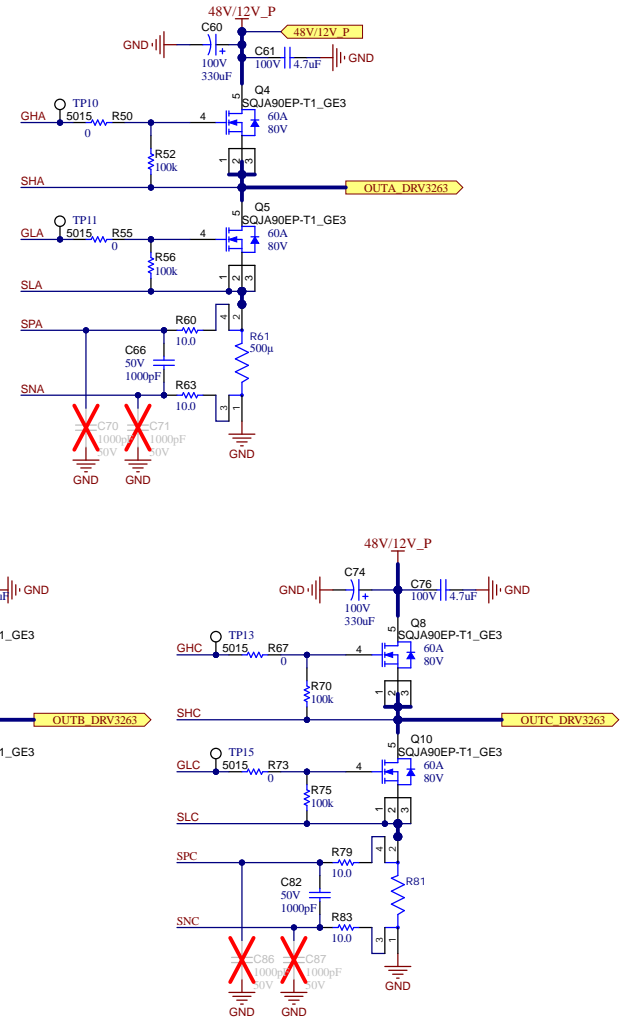
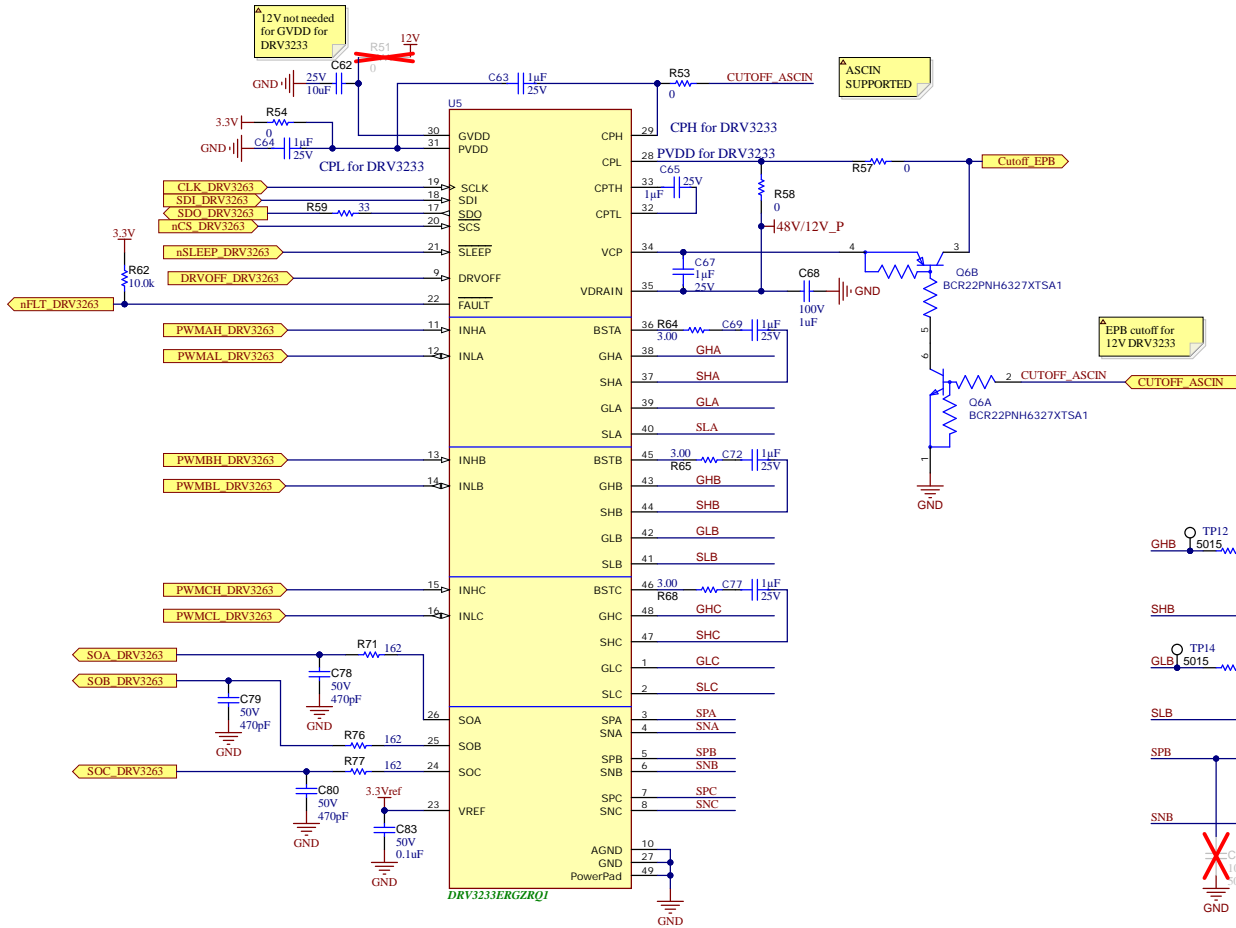
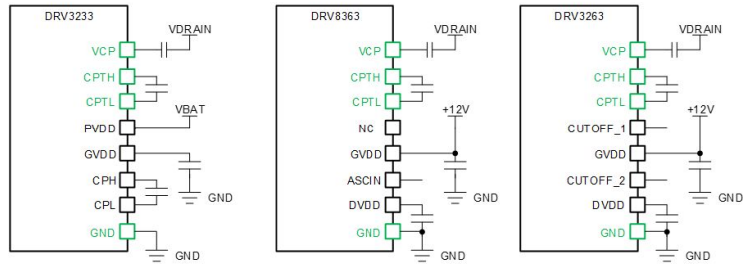
# PMIC



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TID #: UDA-020106	Project Title: TIDA-020106	
Number: TIDA-020106	Rev: VerA	Sheet Title: PMIC
SVN Rev: Not in version control	Assembly Variant: 12V	Sheet: 5 of 15
Drawn By: Hely Zhang	File: PMIC.SchDoc	Size: A4
Engineer: Hely Zhang	Contact: <a href="http://www.ti.com/support">http://www.ti.com/support</a>	

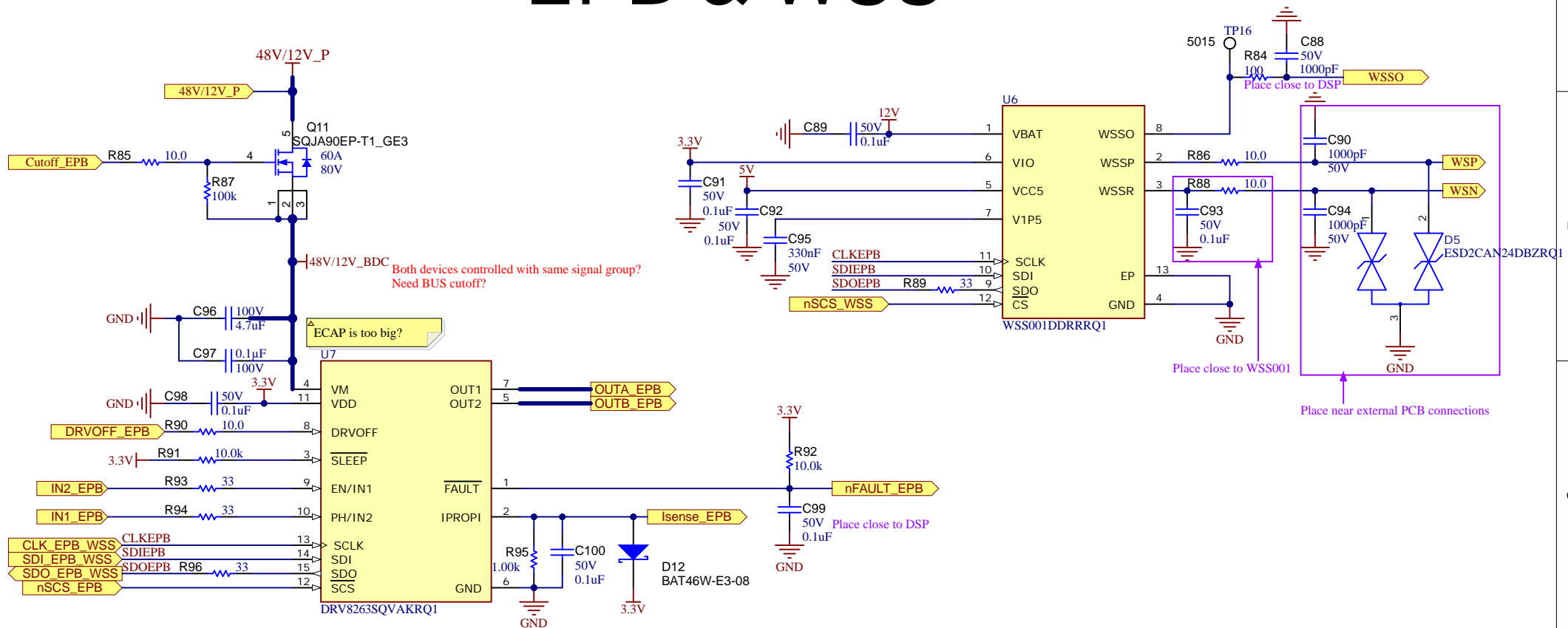
# BLDC Motor Drive




Orderable: <b>NO</b>	Designed for: <b>Public Release</b>	Mod. Date: 4/15/2026	 <b>TEXAS INSTRUMENTS</b>  <a href="http://www.ti.com">http://www.ti.com</a> © Texas Instruments 2025
TID #: <b>TIDA-020106</b>	Project Title: <b>TIDA-020106</b>		
Number: <b>TIDA-020106</b> [Rev: <b>VerA</b> ]	Sheet Title: <b>BLDC</b>		
SVN Rev: Not in version control	Assembly Variant: 12V	Sheet: <b>6</b> of <b>15</b>	
Drawn By: <b>Hely Zhang</b>	File: <b>BLDC_SchDoc</b>	Size: B	
Engineer: <b>Hely Zhang</b>	Contact: <a href="http://www.ti.com/support">http://www.ti.com/support</a>		

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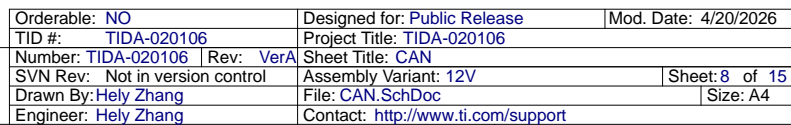
# EPB & WSS



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TID #: <b>TIDA-020106</b>	Project Title: <b>TIDA-020106</b>		
Number: <b>TIDA-020106</b>   Rev: <b>VerA</b>	Sheet Title: <b>EPB &amp; WSS</b>		
SVN Rev: Not in version control	Assembly Variant: <b>12V</b>	Sheet: <b>7</b> of <b>15</b>	
Drawn By: <b>Hely Zhang</b>	File: <b>EPB_SchDoc</b>	Size: A4	
Engineer: <b>Hely Zhang</b>	Contact: <a href="http://www.ti.com/support">http://www.ti.com/support</a>		

### CAN1 with wakeup

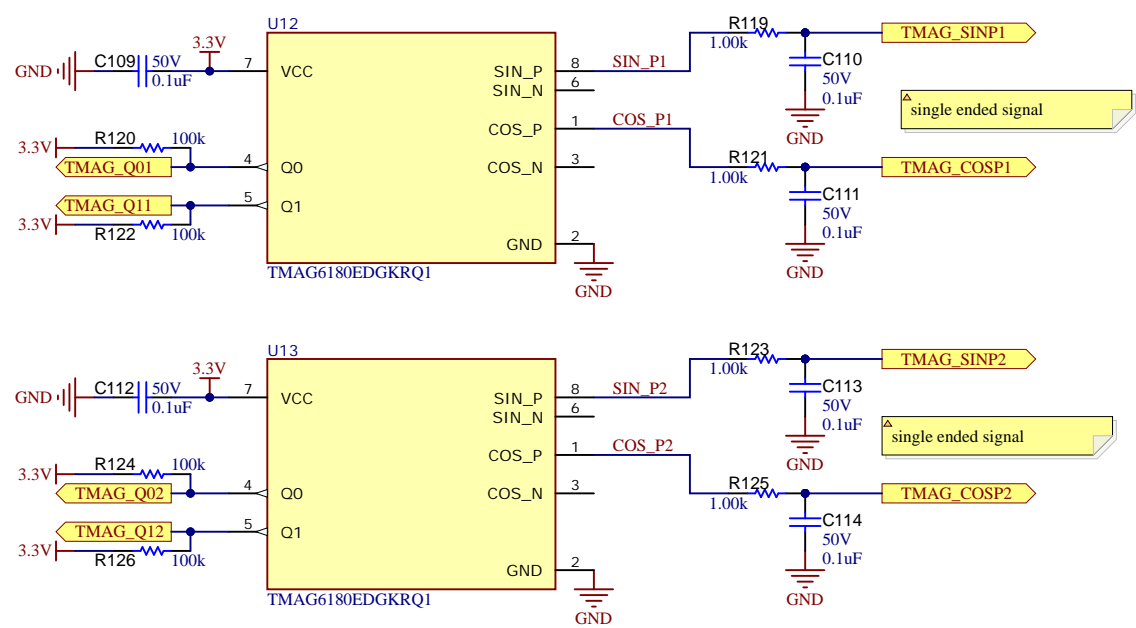


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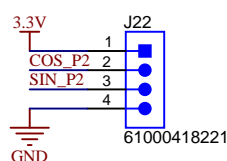
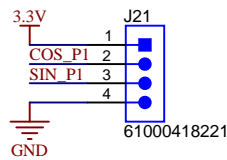


# Rotor Position Sensor

## Onboard AMR sensor



## Offboard Inductive Sensor



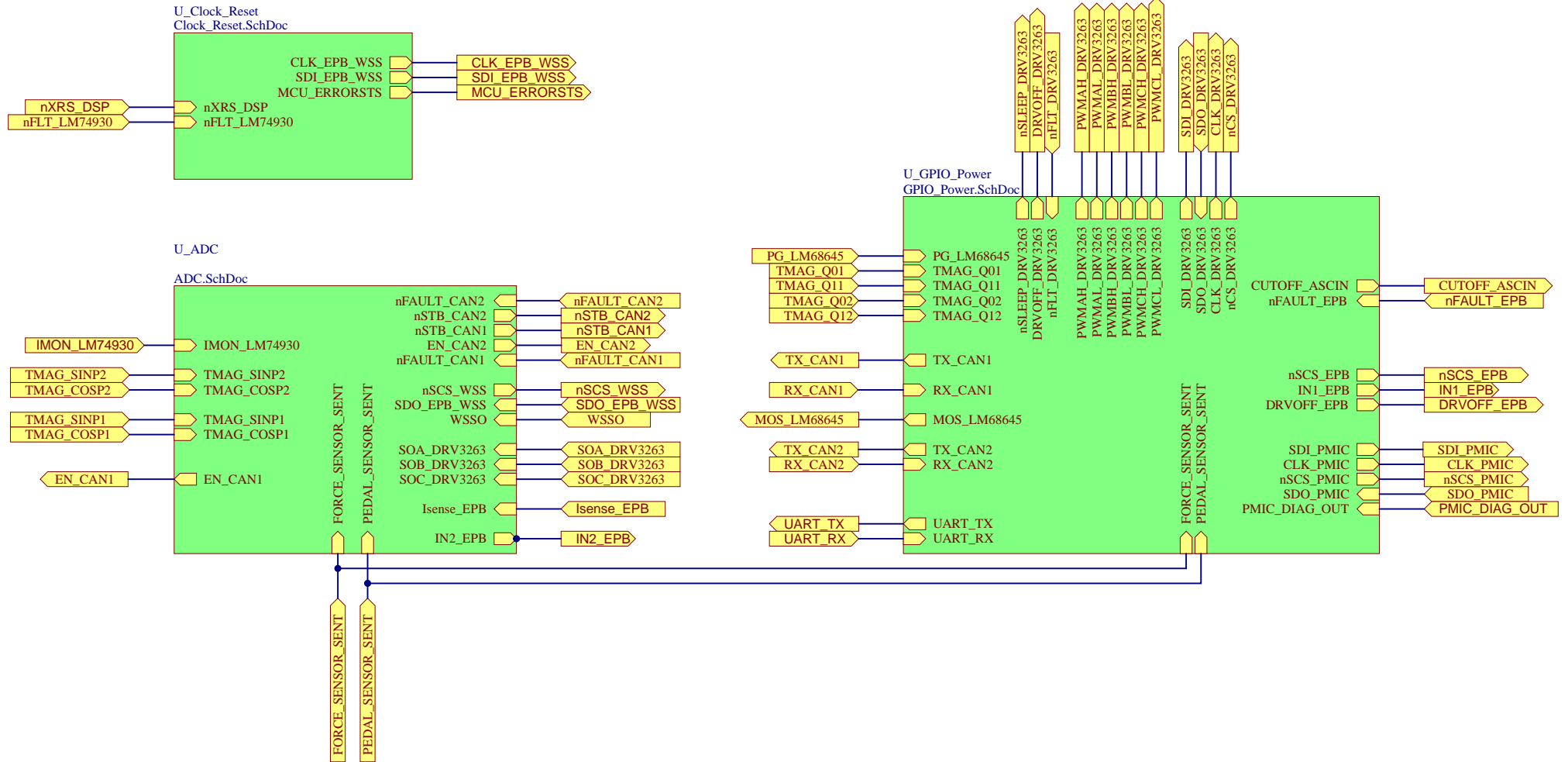
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TID #: TIDA-020106	Project Title: TIDA-020106	
Number: TIDA-020106	Rev: VerA	Sheet Title: Sensor
SVN Rev: Not in version control	Assembly Variant: 12V	Sheet: 9 of 15
Drawn By: Hely Zhang	File: Sensor.SchDoc	Size: A4
Engineer: Hely Zhang	Contact: <a href="http://www.ti.com/support">http://www.ti.com/support</a>	

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# DSP

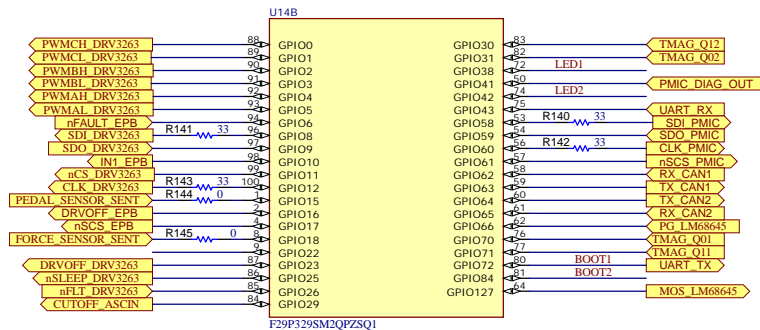


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TID #: TIDA-020106	Project Title: TIDA-020106	
Number: TIDA-020106	Rev: VerA	Sheet Title: DSP
SVN Rev: Not in version control	Assembly Variant: 12V	Sheet: 10 of 15
Drawn By: Hely Zhang	File: DSP.SchDoc	Size: A4
Engineer: Hely Zhang	Contact: <a href="http://www.ti.com/support">http://www.ti.com/support</a>	

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# GPIO and Power



## Boot Mode Selection Switch



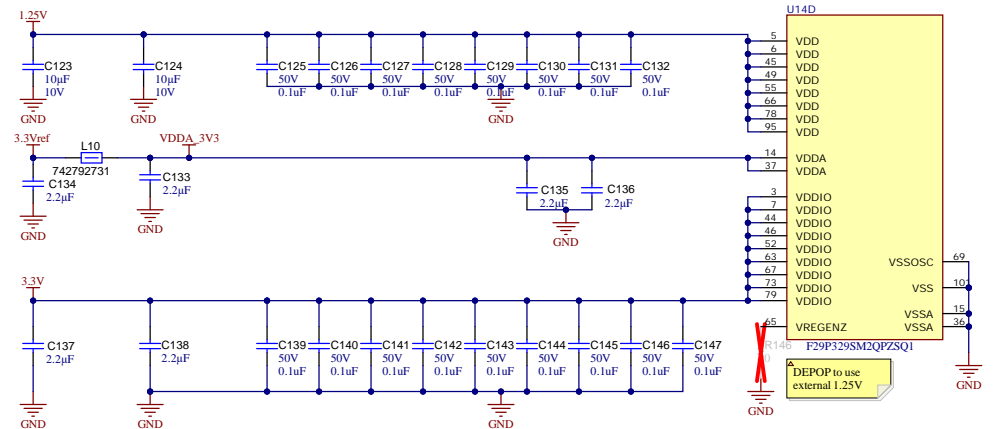
Boot Mode Selection Chart			
Modes	GPIO72	GPIO84	Boot Modes
00	0	0	Boot from Parallel GPIO
01	0	1	Boot from UART / Wait Mode
02	1	0	Boot from CAN
03	1	1	Boot from Flash*

\*Default

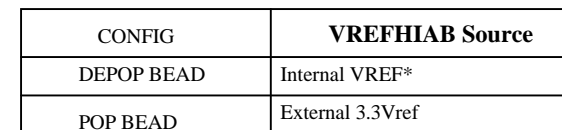


## User LEDs

Place near DSP



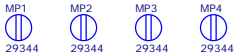
## U14A



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FCC disclaimer

PCB  
LOGO  
WEEE logo



CAUTION HOT SURFACE



DANGER HIGH VOLTAGE

LBL1

PCB Label  
THT-14-423-10  
Size: 0.65" x 0.20"

Variant/Label Table	
Variant	Label Text
001	ChangeMe!
002	ChangeMe!

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TID #: TIDA-020106	Project Title: TIDA-020106	
Number: TIDA-020106	Rev: VerA	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: 12V	Sheet: 14 of 15
Drawn By:	File: Hardware_SchDoc	Size: B
Engineer: Hely Zhang	Contact: http://www.ti.com/support	



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