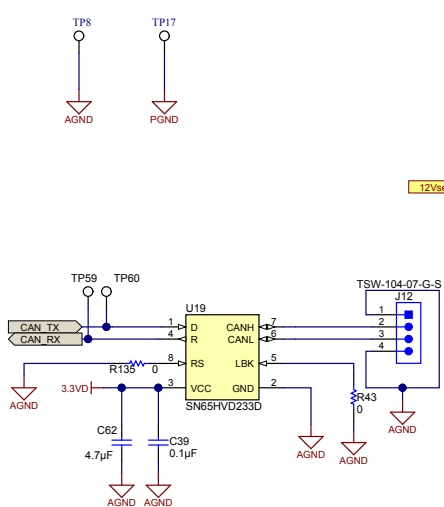



1. EADC1 --> 12V feedback
2. EADC2 --> 48V feedback
3. AD08 --> Phase 1 current measure
4. AD09 --> Phase 2 current measure
5. AD10 --> Phase 3 current measure
6. AD11 --> Phase 4 current measure
7. EADC0 --> Current feedback
8. AD02 --> phase 1 cycle by cycle limit
9. AD04 --> phase 2 cycle by cycle limit
10. AD07 --> phase 3 cycle by cycle limit
11. AD13 --> phase 4 cycle by cycle limit
12. TMS --> Save the standby power
13. TDI --> Phase1 Fast turn off oring
14. TDO --> Phase2 Fast turn off oring
15. TCK --> Phase3 Fast turn off oring
16. TCAP --> Phase4 Fast turn off oring
17. DPWM0A --> Phase 1 low side gate
18. DPWM0B --> Phase 1 high side gate
19. DPWM1A --> Phase 2 low side gate
20. DPWM1B --> Phase 2 high side gate
21. DPWM2A --> Phase 3 low side gate
22. DPWM2B --> Phase 3 high side gate
23. DPWM3A --> Phase 4 low side gate
24. DPWM3B --> Phase 4 high side gate



Designed for: Automotive		Mod. Date: 3/17/2016		 <b>TEXAS INSTRUMENTS</b> <a href="http://www.ti.com">http://www.ti.com</a> 7Texas Instruments 2014
Project Title: Bidirectional CDCDC converter				
Sheet Title: MCU				
Number: TIDA-00653	Rev: AA1			
SVN Rev: Not in version control		Assembly Variant: 001		Sheet: 1 of 6
Drawn By:		File: bidirectional-MCU_SchDoc		Size: B
Engineer: Ray Chang		Contact: <a href="http://www.ti.com/support">http://www.ti.com/support</a>		

H1  
NY PMS 440 0025 PH

H2  
NY PMS 440 0025 PH

H3  
NY PMS 440 0025 PH

H4  
NY PMS 440 0025 PH

H5  
NY PMS 440 0025 PH

H6  
NY PMS 440 0025 PH

H7  
NY PMS 440 0025 PH

FID1

FID2

FID3

PCB Number: TIDA-00653  
PCB Rev: E1

PCB  
LOGO

Texas Instruments

PCB  
LOGO

Pb-Free Symbol

PCB  
LOGO

FCC disclaimer

DANGER HIGH VOLTAGE

DANGER HIGH VOLTAGE

LBL1

PCB Label

Size: 0.65" x 0.20"

ZZ1

Label Assembly Note

This Assembly Note is for PCB labels only

ZZ2

Assembly Note

These assemblies are ESD sensitive, ESD precautions shall be observed.

ZZ3

Assembly Note

These assemblies must be clean and free from flux and all contaminants. Use of no clean flux is not acceptable.

ZZ4

Assembly Note

These assemblies must comply with workmanship standards IPC-A-610 Class 2, unless otherwise specified.

Label Table

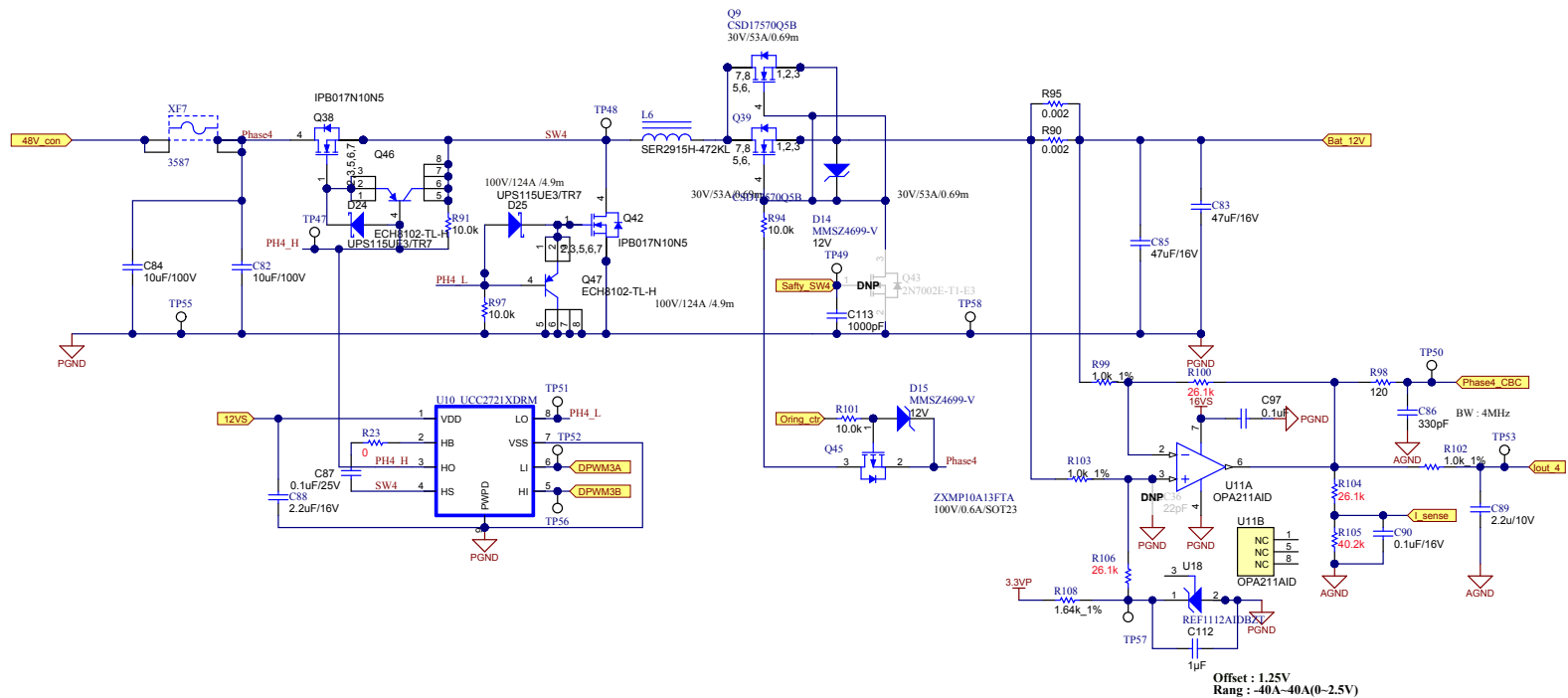
Variant	Label Text
001	ChangeMe!
002	ChangeMe!

CAUTION HOT SURFACE









Texas Instruments and/or its licensors do not warrant the accuracy or completeness of this specification or any information contained therein. Texas Instruments and/or its licensors do not warrant that this design will meet the specifications, will be suitable for your application or fit for any particular purpose, or will operate in an implementation. Texas Instruments and/or its licensors do not warrant that the design is production worthy. You should completely validate and test your design implementation to confirm the system functionality for your application.

Number: TIDA-00653	Rev: AA1	Designed for: Automotive	Mod. Date: 3/17/2016
SVN Rev: Not in version control	Drawn By: Ray Chang	Project Title: Bidirectional DCDC converter	Sheet Title: Phase 4
Engineer: Ray Chang	File: Indirectional-Phase4_SchDoc	Assembly Variant: 001	Sheet: 6 of 6
	Contact: http://www.ti.com/support		Size: B