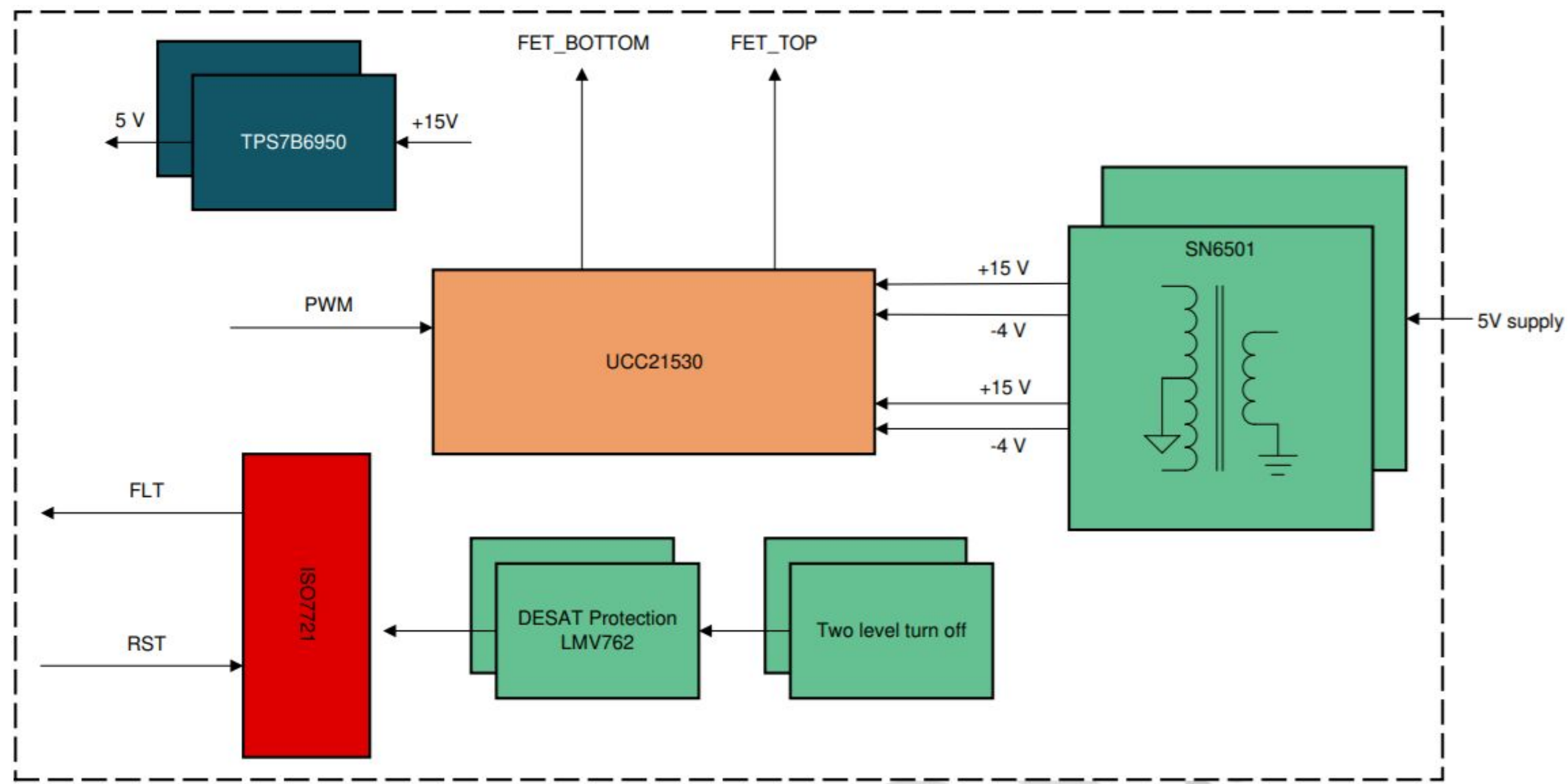


Revision History				
Rev	ECN #	Approved Date	Approved by	Notes
N/A	N/A	N/A	N/A	N/A

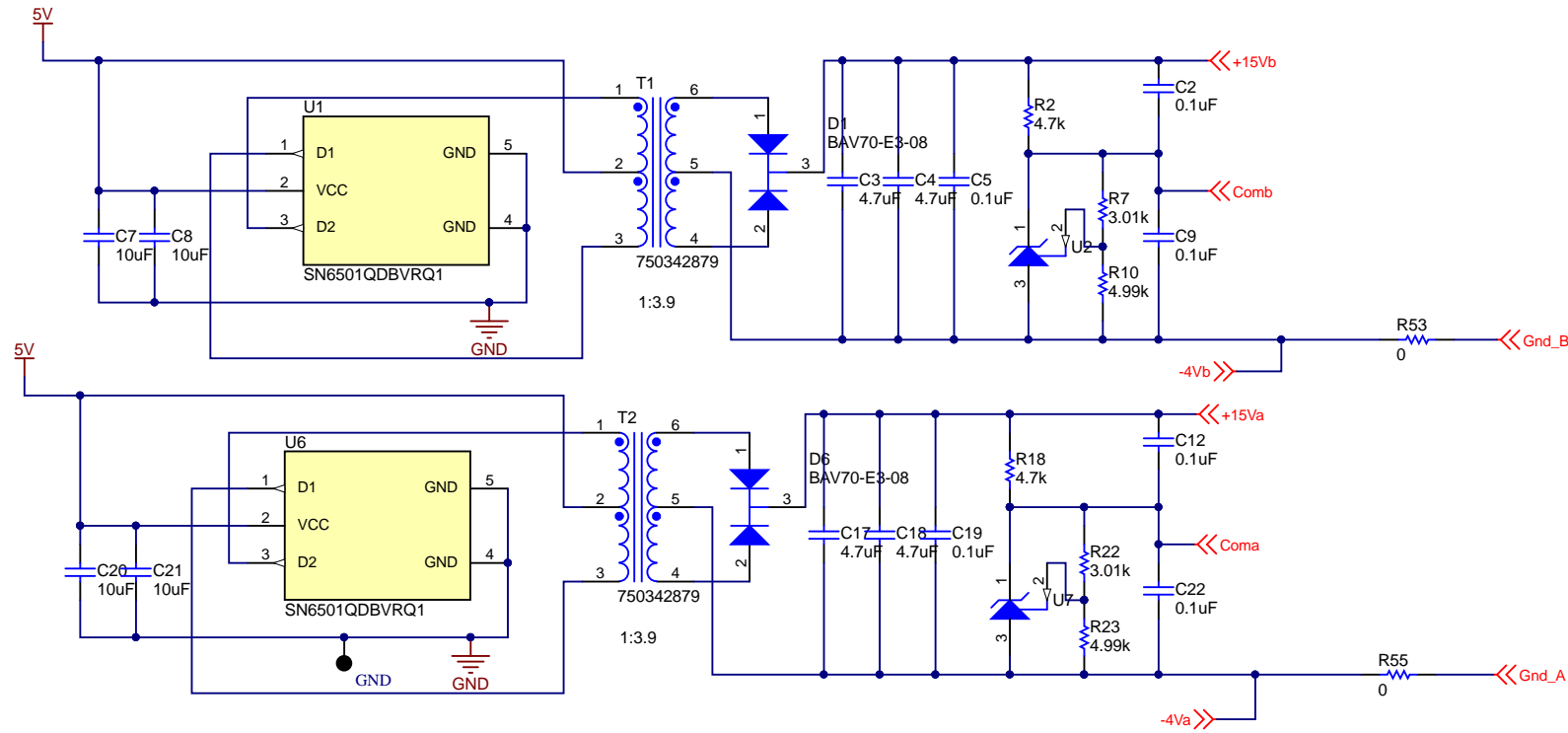


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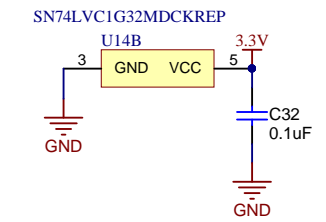
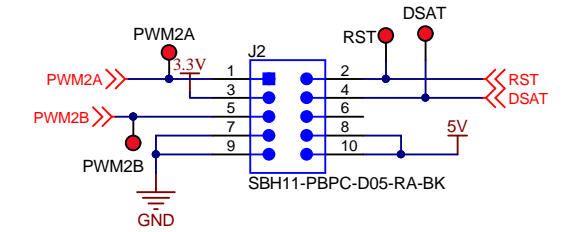
Orderable: NA	Designed for: Public Release	Mod. Date: 9/1/2021	 TEXAS INSTRUMENTS <a href="http://www.ti.com">http://www.ti.com</a> © Texas Instruments 2020
TID #: 010054	Project Title: 10KW BIDIRECTIONAL DC-DC CONVERTER_GATE DRIVER BOARD		
Number: TIDA-010054_GATE_DRIVER_BOARD	Title: Cover Sheet		
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 1 of 4	
Drawn By: Avinash N	File: TIDA-010054_GATE_DRIVER_CARD-E2_CoverSheet	Size: 8.5x11.0	
Engineer: HARISH R	Contact: <a href="http://www.ti.com/support">http://www.ti.com/support</a>		

# Gate drive card for Primary Side Leg 2

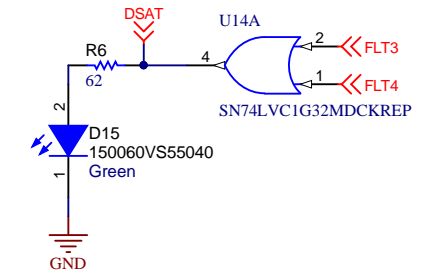
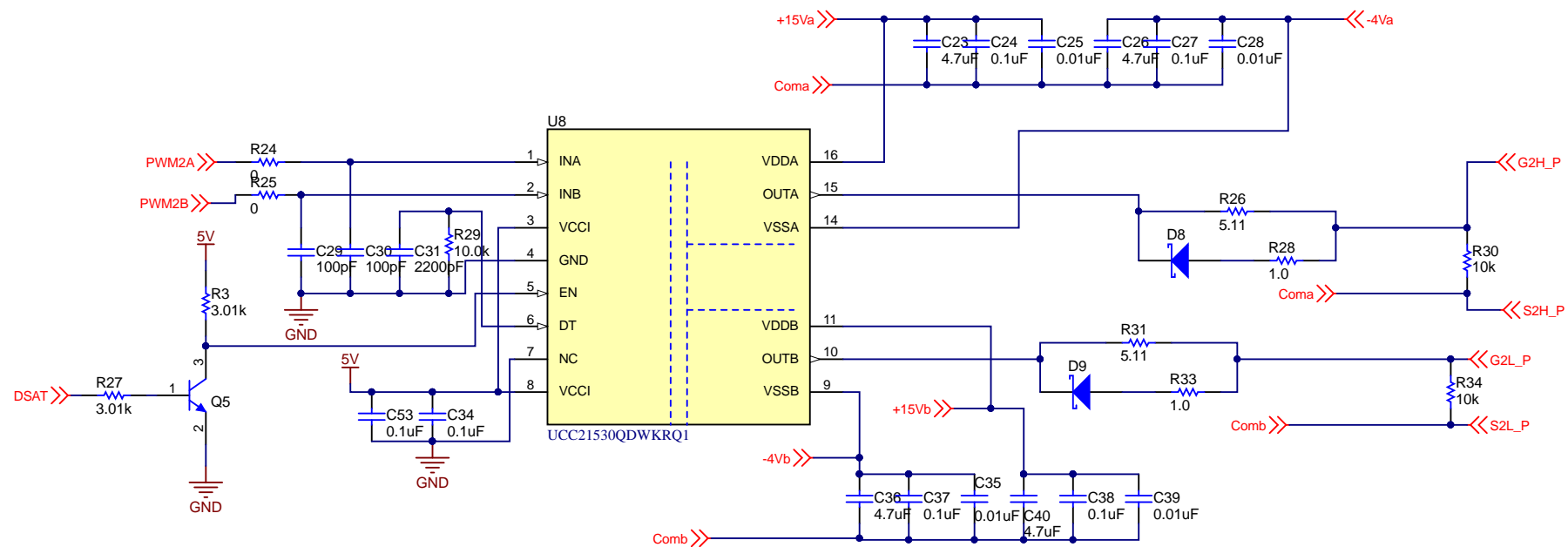
## Bias power supply for UCC21530



## Gate drive card - Controller connector

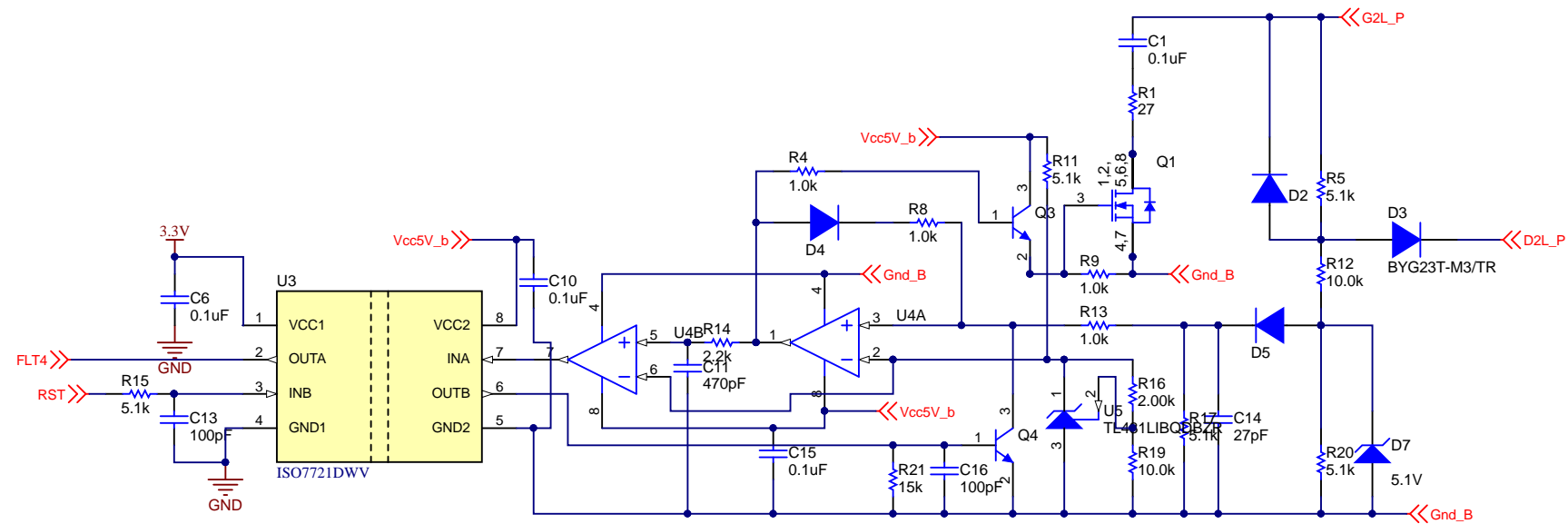


## Isolated Gate Driver circuit

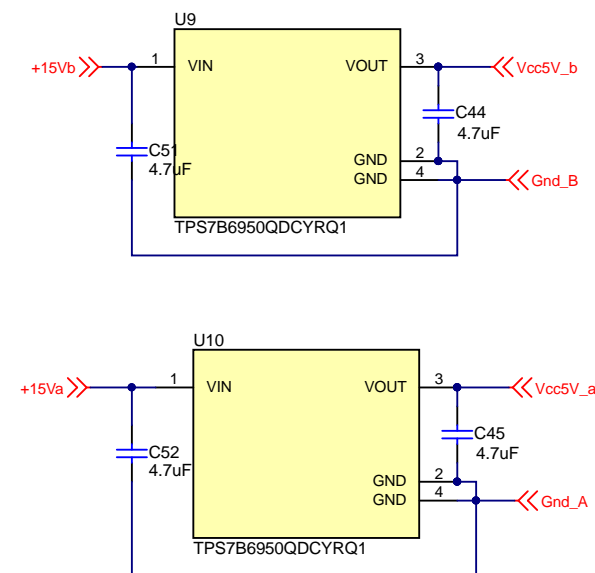


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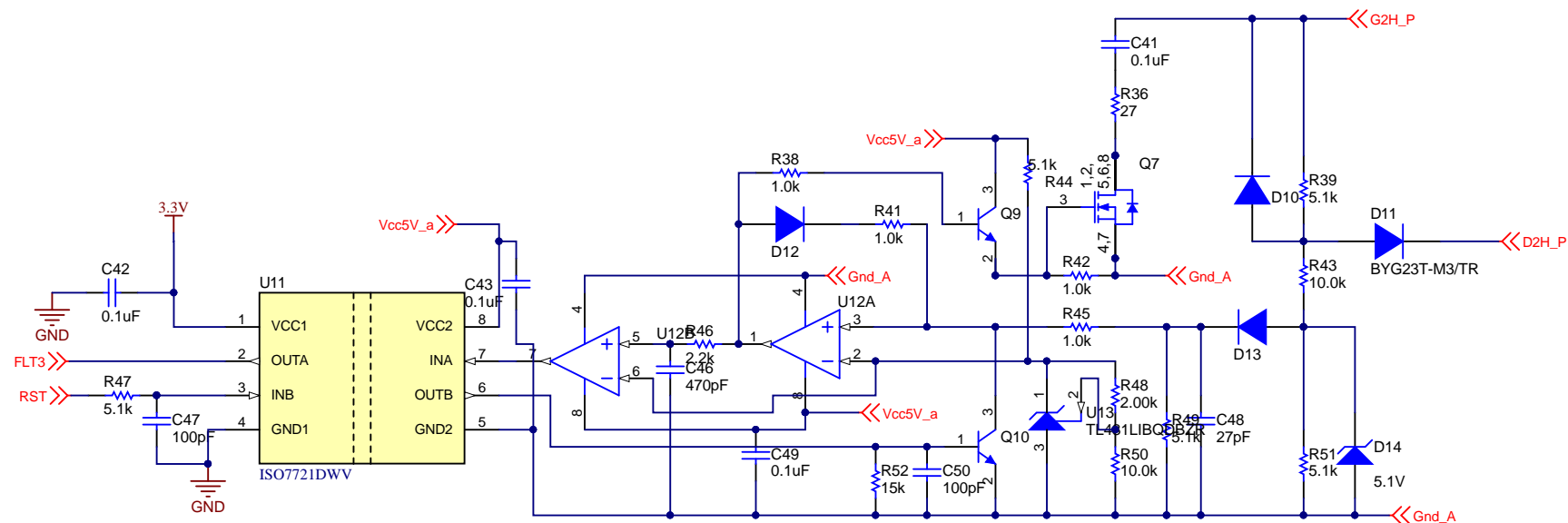
## Short circuit Detection & Two Level Turn Off For low side switch



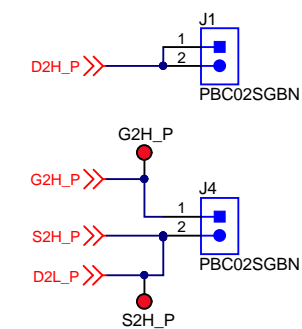
## Isolated 5V supply for Isolator



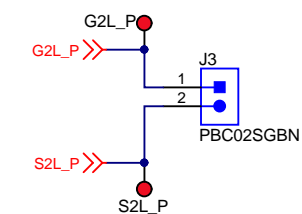
## Short circuit Detection & Two Level Turn Off For high side switch



### Top Switch



### Bottom Switch



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Orderable: NA	Designed for: Public Release	Mod. Date: 2/12/2021	
TID #: 010054	Project Title: 10KW BIDIRECTIONAL DC-DC CONVERTER_GATE DRIVER BOARD		
Number: TIDA-010054_GATE_DRIVER_BOARD	Title: Protection Circuits		
SVN Rev: Not in version control	Assembly Variant: 001		
Drawn By: Avinash N	File: TIDA-010054_GATE_DRIVER_CARD-E2_prot_sch.circuits.SchDoc		
Engineer: HARISH R	Contact: <a href="http://www.ti.com/support">http://www.ti.com/support</a>		
Sheet: 3 of 4		© Texas Instruments 2020	



PCB Number: TIDA-010054\_GATE\_DRIVER\_CARD  
PCB Rev: E2



You should delete the nylon screws/standoffs and/or the bumpers as needed for your design (or substitute other parts from Hardware.IntLib). Bumpers are cheaper, but provide less clearance.

Deleting anything else from this page may result in your EVM submission being rejected (until you add them back).

Update the Label Text in the Label Table as needed for each Assembly Variant.

You should delete this note too.

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

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.