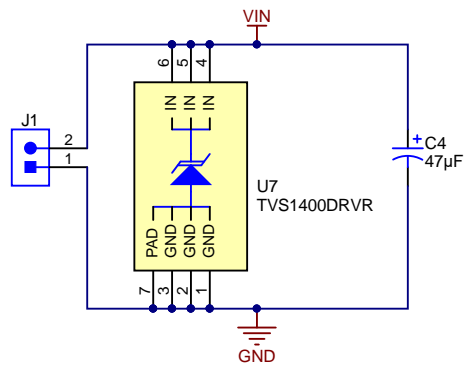


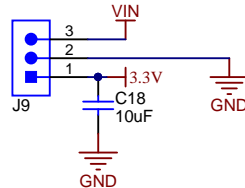
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Orderable: N/A	Designed for: Public Release	Mod. Date: 4/6/2019
TID #: 010004	Project Title: 12-V, Highly-Protected, Single Driver-Based Stepper	
Number: TIDA-010004	Rev: E3	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 1 of 5
Drawn By: Manu	File: TIDA-010004_CoverSheet.SchDoc	Size: B
Engineer: Manu Balakrishnan	Contact: http://www.ti.com/support	

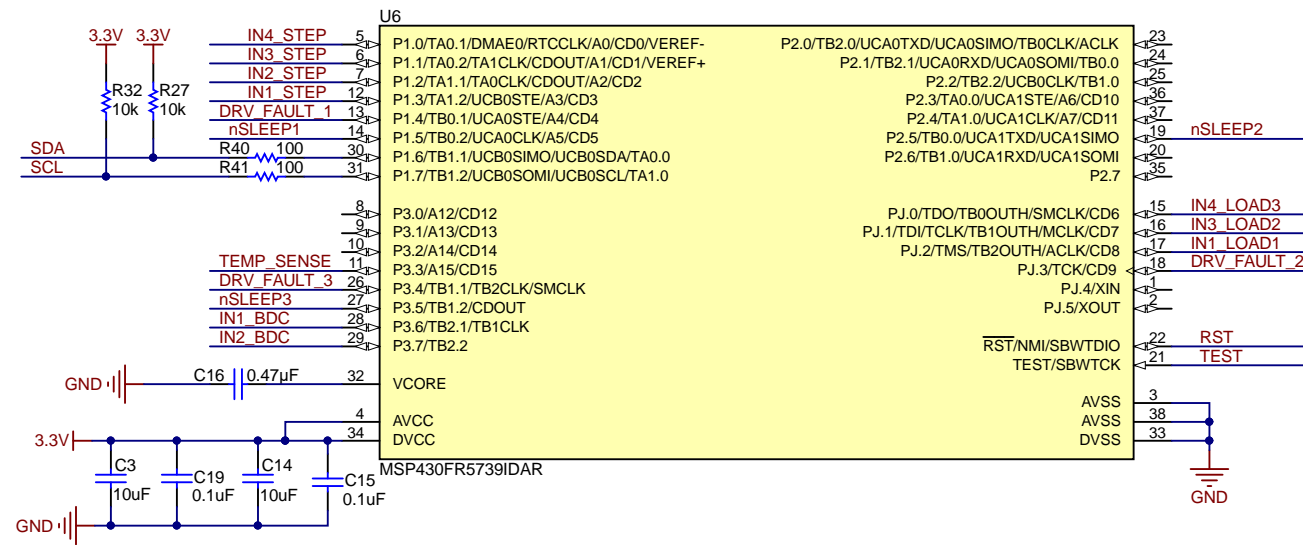
Input 12V supply



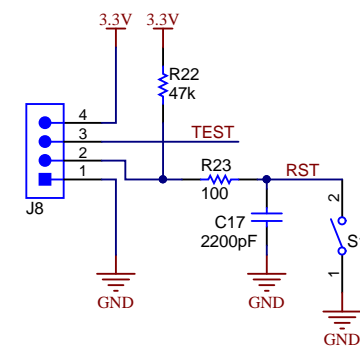
3.3V supply from TIDA-01447



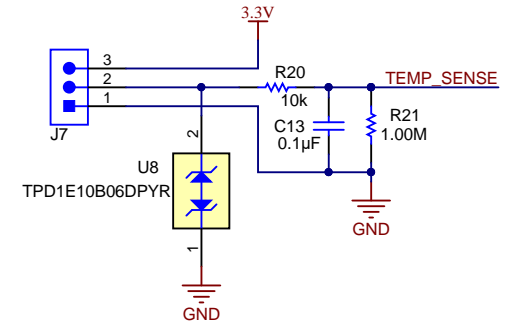
Microcontroller



MCU Programming connector

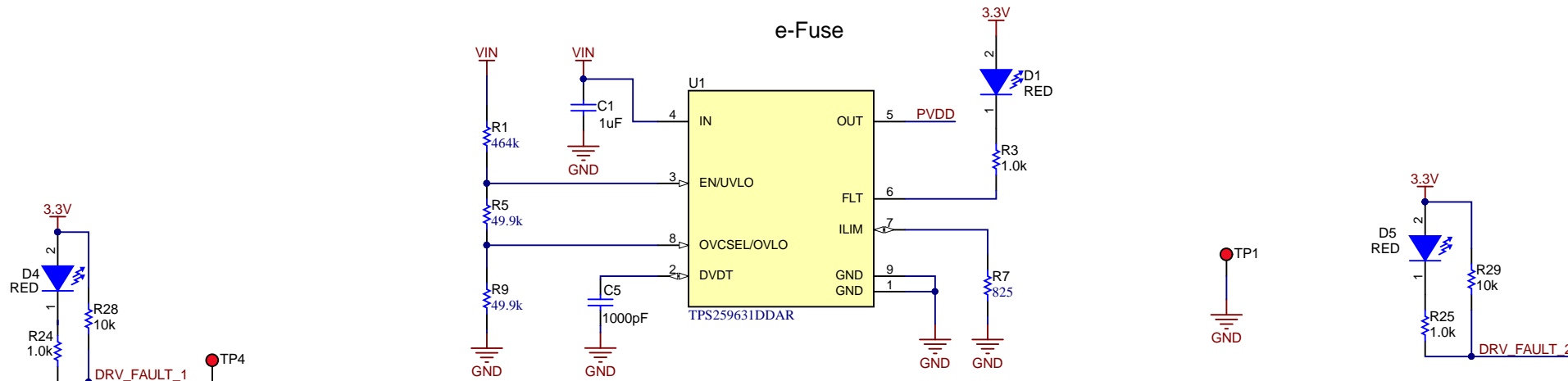


Temperature sensor feedback

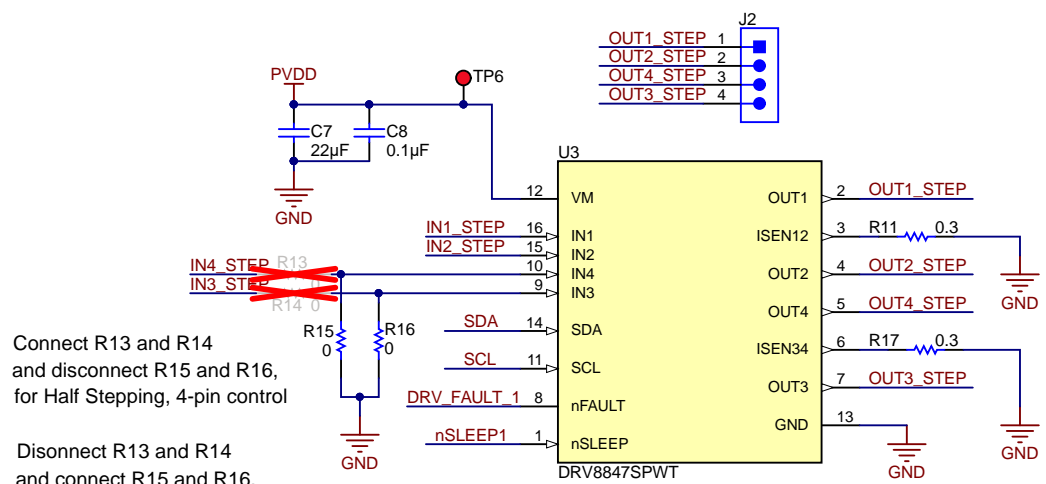
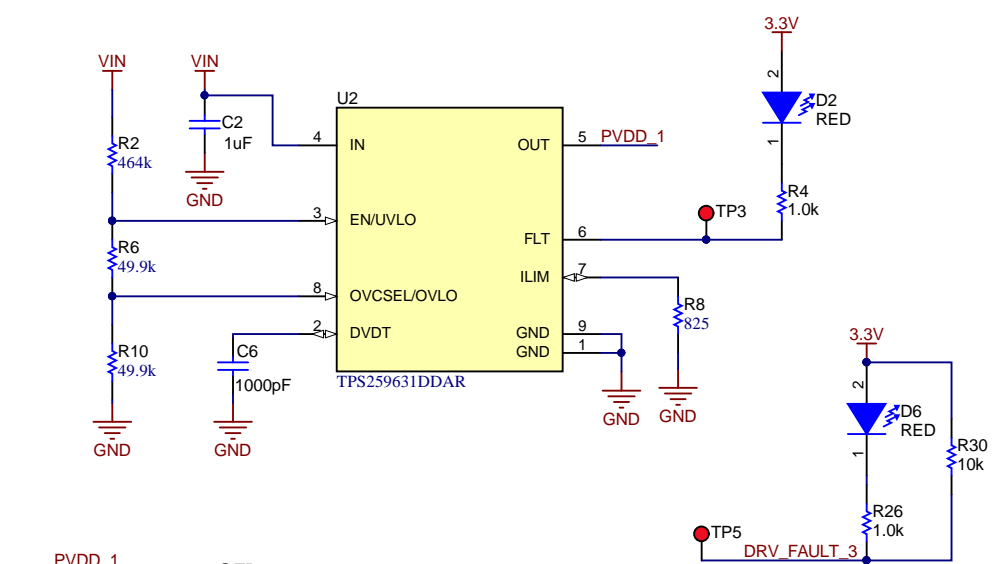


Stepper, Solenoid & Actuator Drives

e-Fuse



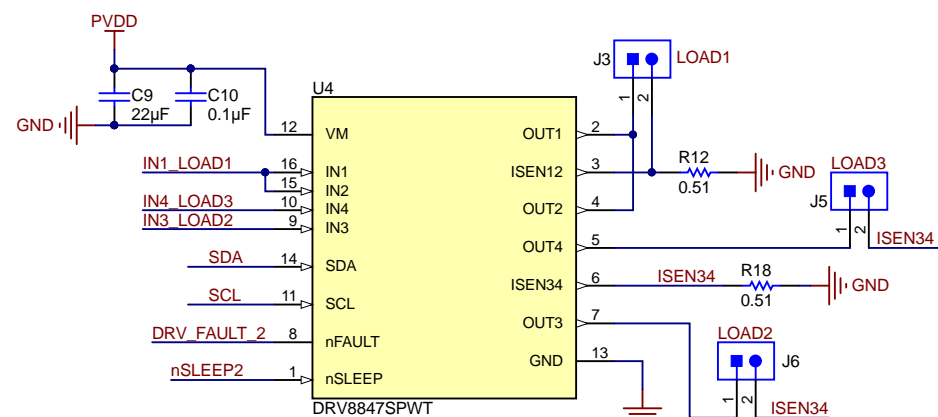
12V/15W Brushed DC drive



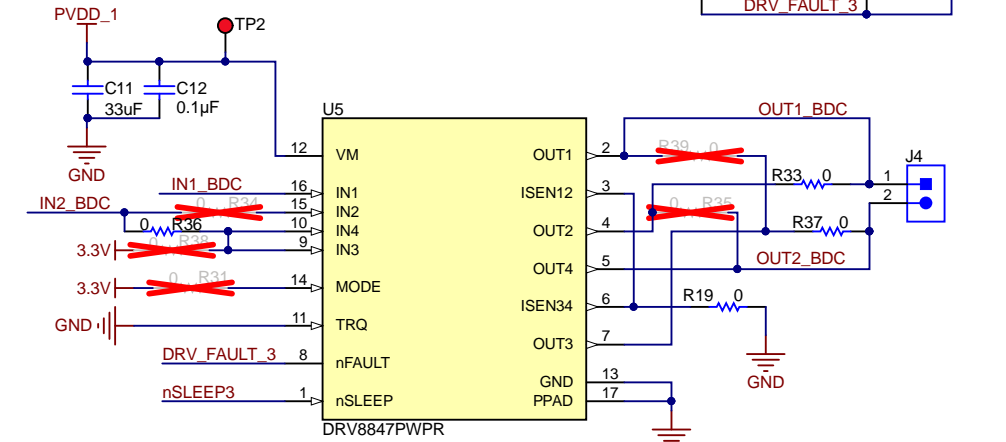
Connect R13 and R14 and disconnect R15 and R16, for Half Stepping, 4-pin control

Disconnect R13 and R14 and connect R15 and R16, for Full Stepping, 2-pin control

DRV8847 driving bi-polar stepper



DRV8847 driving independent loads



DRV8847 driving brushed DC motor

PCB Number: TIDA-010004
PCB Rev: E3



PCB
LOGO
Logo2

PCB
LOGO
Logo3

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.

Orderable: N/A	Designed for: Public Release	Mod. Date: 8/31/2018	 TEXAS INSTRUMENTS http://www.ti.com <small>© Texas Instruments 2018</small>
TID #: 010004	Project Title: 12-V, Highly-Protected, Single Driver-Based Stepper		
Number: TIDA-010004	Rev: E3	Sheet Title:	
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 5 of 5	
Drawn By: Manu	File: TIDA-010004_Hardware.SchDoc	Size: B	
Engineer: Manu Balakrishnan	Contact: http://www.ti.com/support		

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