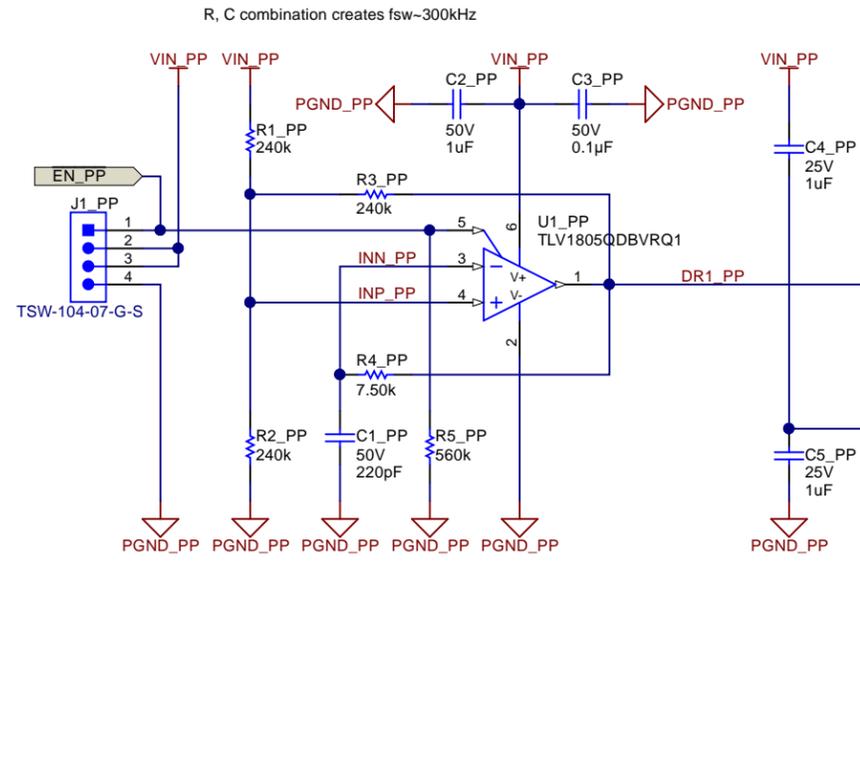
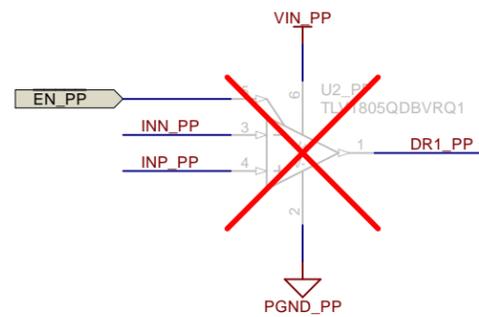
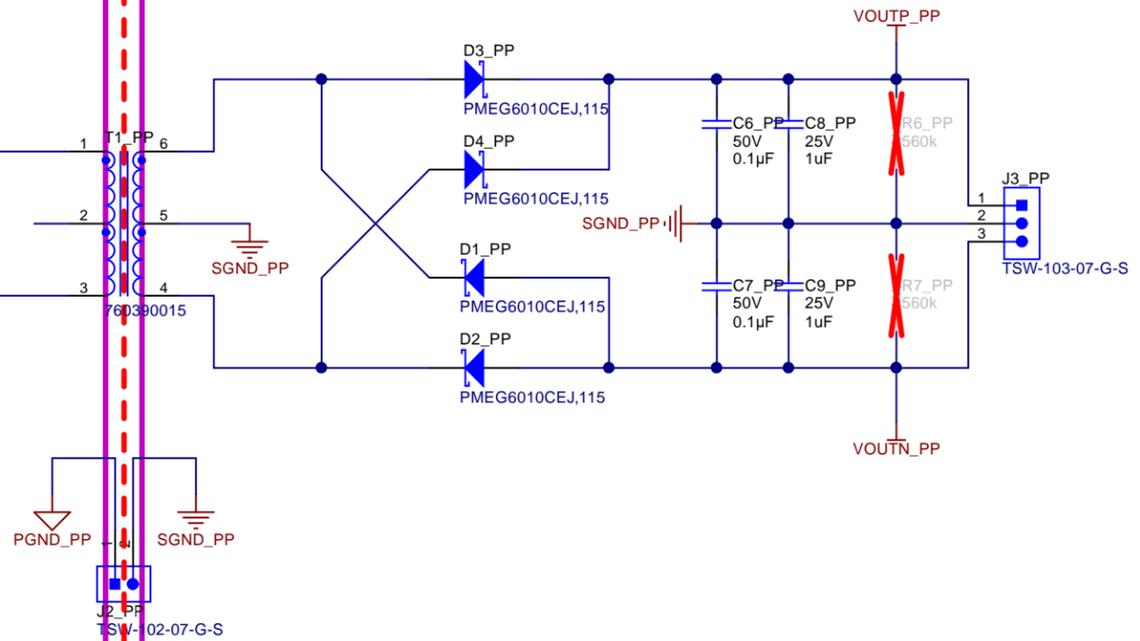


Primary side oscillator and driver



Secondary side rectifier

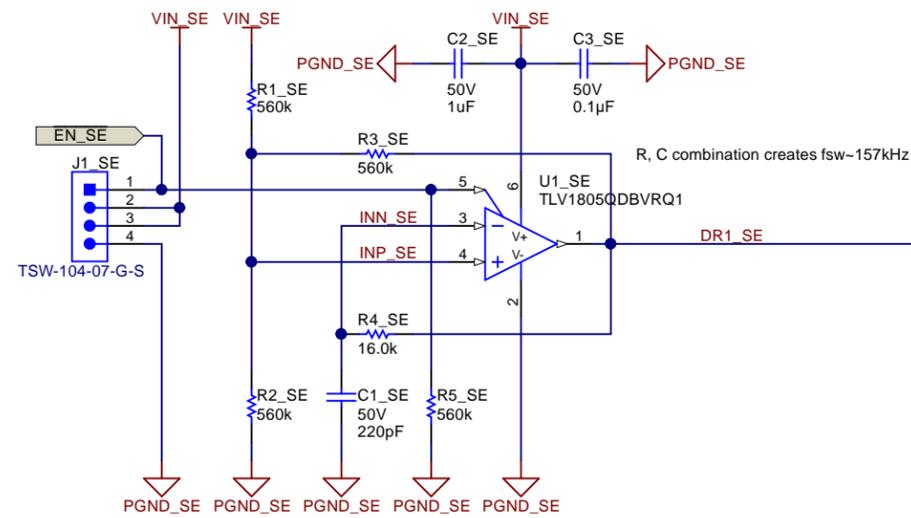
NOTE:
Symmetric or asymmetric output (depending on the transformer configuration) for purposes of e.g.:
- symmetric OPAMP power
- IGBT/SIC drivers



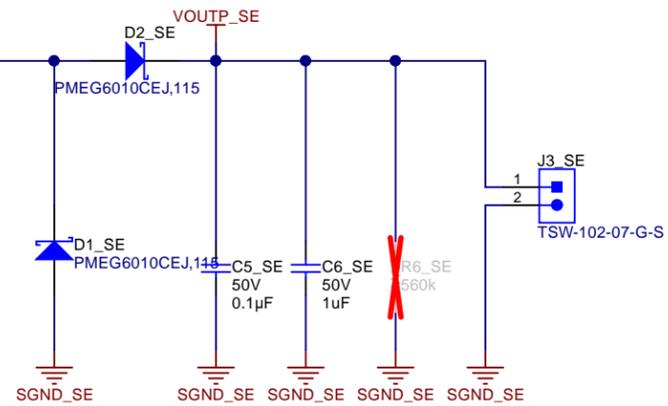
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TID #: PMP21953	Project Title: 40-V isolated comparator-based power supply refer	
Number: PMP21953	Rev: A	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: 760x transformer	Sheet: 1 of 5
Drawn By:	File: PMP21953_push-pull.SchDoc	Size: B
Engineer: t-urban@ti.com	Contact: http://www.ti.com/support	

Primary side oscillator and driver

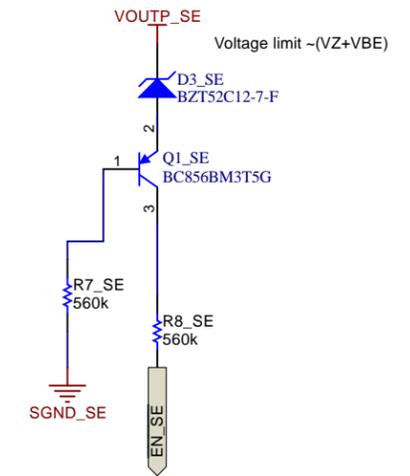


Secondary side rectifier

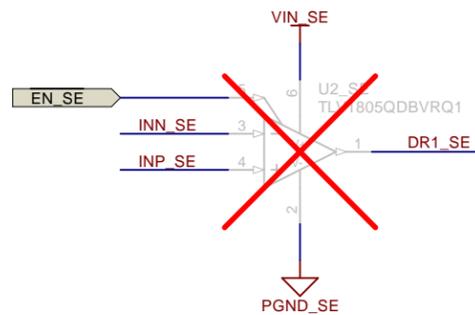
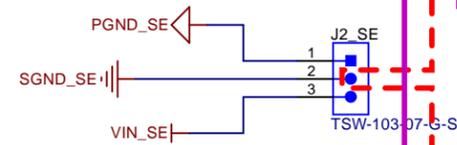


Output voltage limiter

NOTE:
This circuit creates secondary oscillations with frequency depending on load current.
As the output voltage rises above (VZ+VBE) the oscillator is disabled. It highly improves current consumption when used as a charge pump for static gate driving.



Secondary ground connection selector

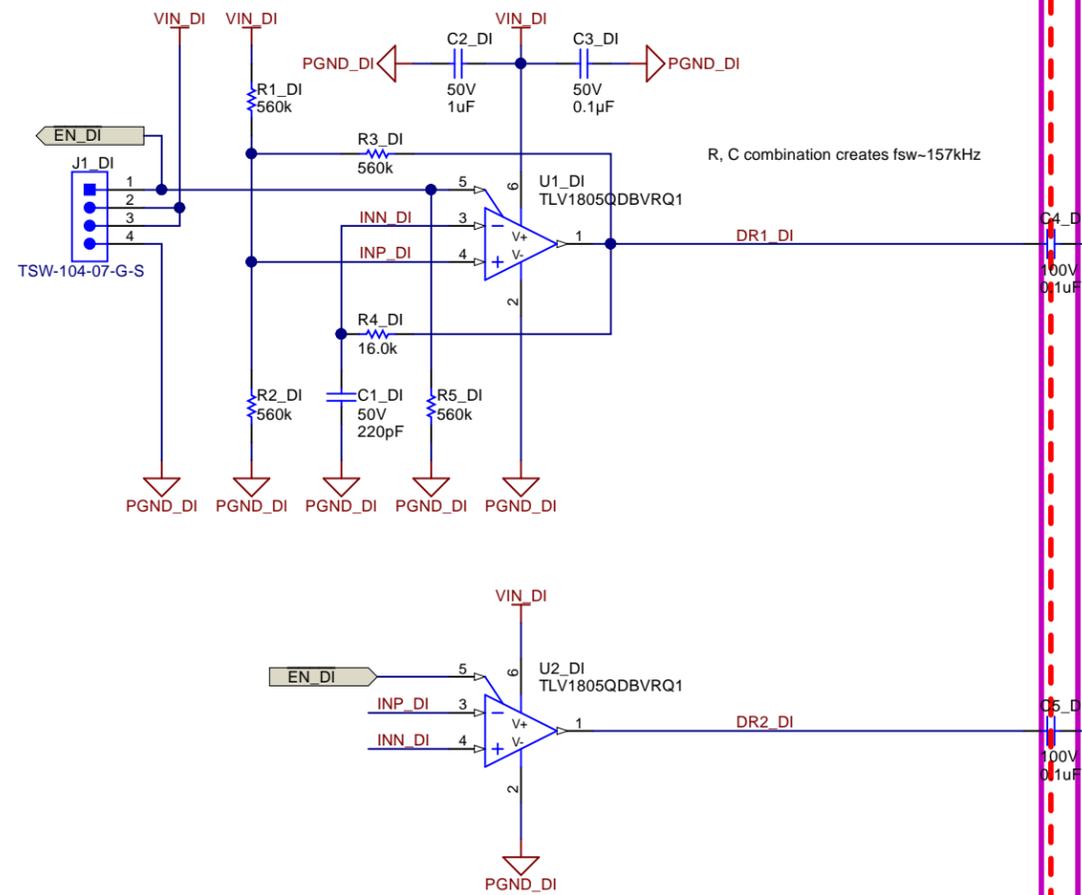


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SVN Rev: Not in version control	Assembly Variant: 760x transformer	Sheet: 2 of 5
Drawn By:	File: PMP21953_ch_pump_se.SchDoc	Size: B
Engineer: t-urban@ti.com	Contact: http://www.ti.com/support	

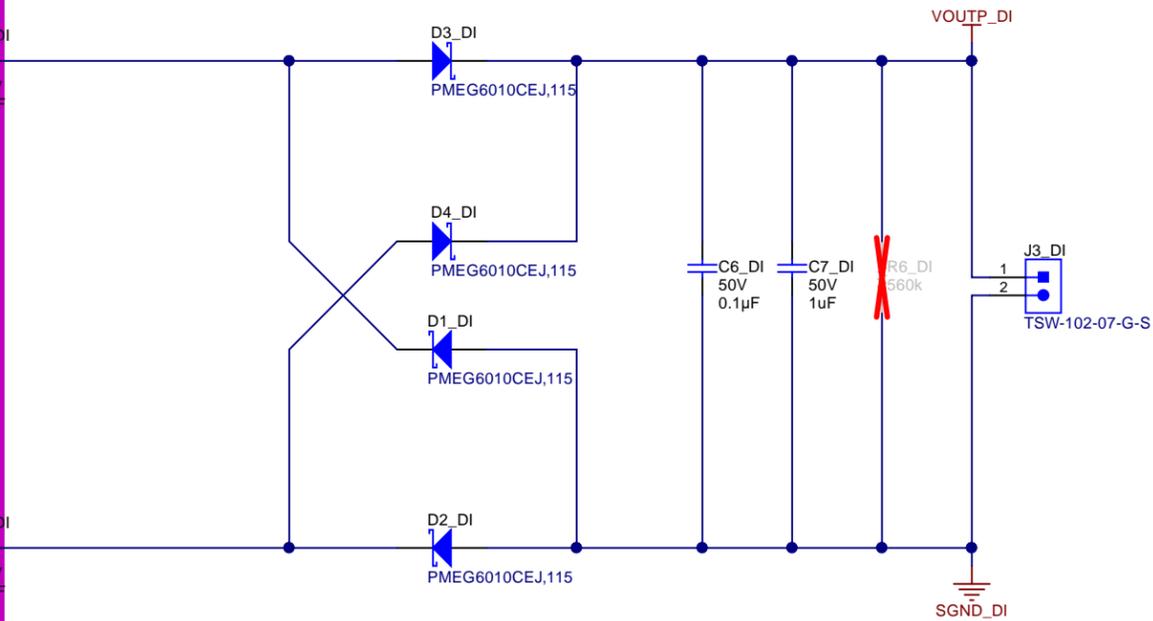
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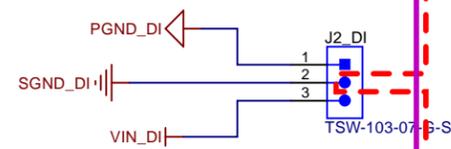
Primary side oscillator and driver



Secondary side rectifier

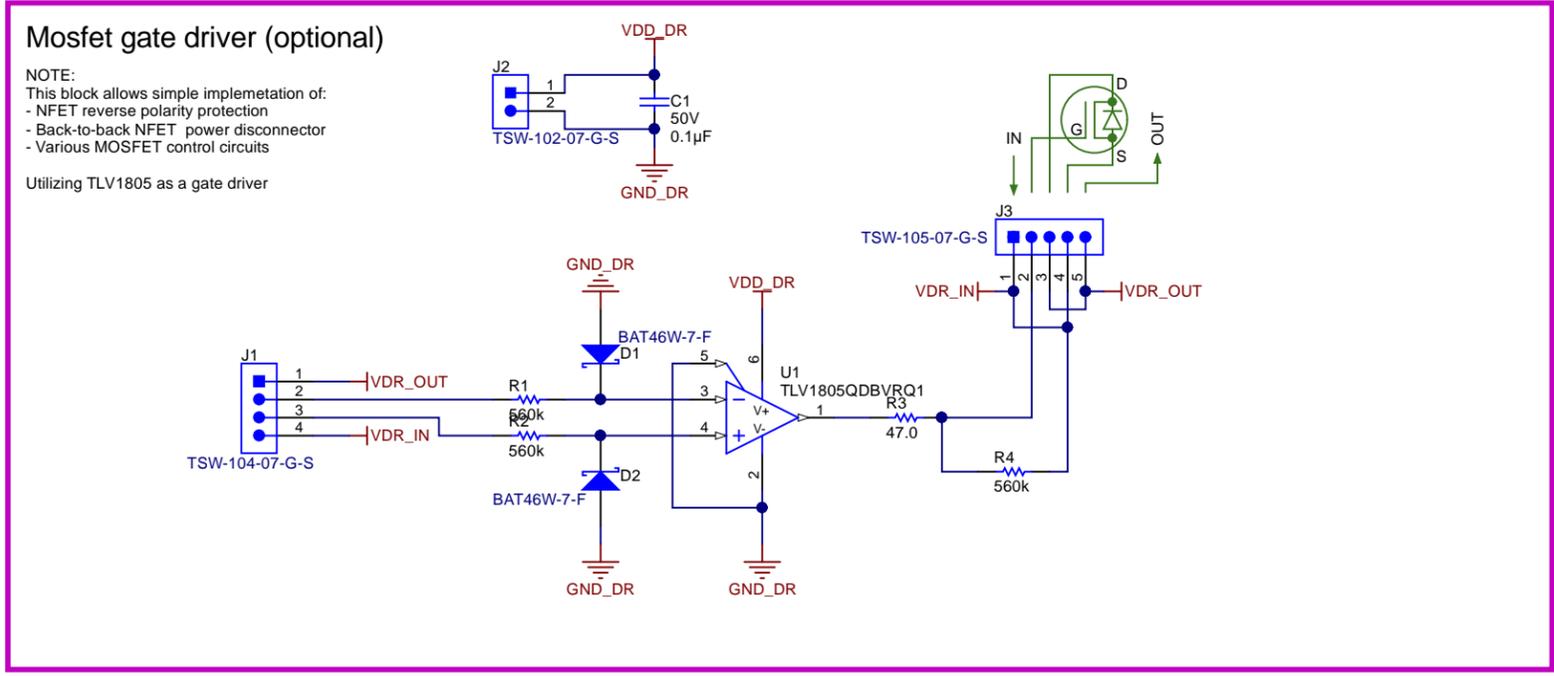


Secondary ground connection selector



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TID #: PMP21953	Project Title: 40-V isolated comparator-based power supply refer	Sheet: 3 of 5	
Number: PMP21953	Rev: A	File: PMP21953_ch-pump_diff.SchDoc	http://www.ti.com
SVN Rev: Not in version control	Assembly Variant: 760x transformer	Size: B	© Texas Instruments 2019
Drawn By: t-urban@ti.com	Contact: http://www.ti.com/support		

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Number: PMP21953	Rev: A	Sheet Title:	
SVN Rev: Not in version control	Assembly Variant: 760x transformer	Sheet: 4 of 5	
Drawn By: t-urban@ti.com	File: PMP21953_gate_driver.SchDoc	Size: B	
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Number: PMP21953	Rev: A	Sheet Title:	
SVN Rev: Not in version control	Assembly Variant: 760x transformer	Sheet: 5 of 5	
Drawn By: t-urban@ti.com	File: PMP21953_EVM_Hardware.SchDoc	Size: B	
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