

ISL6236A Project

Variant Name = 5V Variant

Friday, February 23, 2018

V1I1

RELEASED 23-FEB-2018

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DESIGN CONSIDERATION

DESIGN NOTE:  
Example text for informational  
design notes.

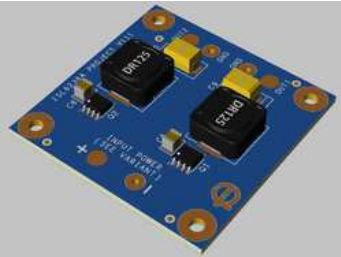
DESIGN NOTE:  
Example text for cautionary  
design notes.

DESIGN NOTE:  
Example text for debug notes.

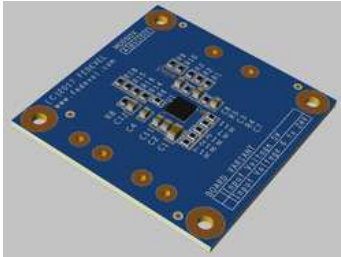
DESIGN NOTE:  
Example text for critical  
design notes.

DESIGN NOTE:  
Example text for critical  
layout guidelines.

TOP VIEW



BOTTOM VIEW



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Title: ISL6236A Project		Variant: <Core Design>		
Page: 01) COVER PAGE		Checked by: <Checked by>		
Size: Custom	Document: LEOA	Designed by: Robert Feranec		Rev: V1I1
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# ISL6236A PROJECT (Block Diagram)

*Power supply input:*  
+6V to +24V (for "6 to 24V Variant")  
+5V (for "5V Variant")

+VIN

ISL6236A

*Power supply outputs*

+1.5V

+1.05V

EN1

POK1

POK2

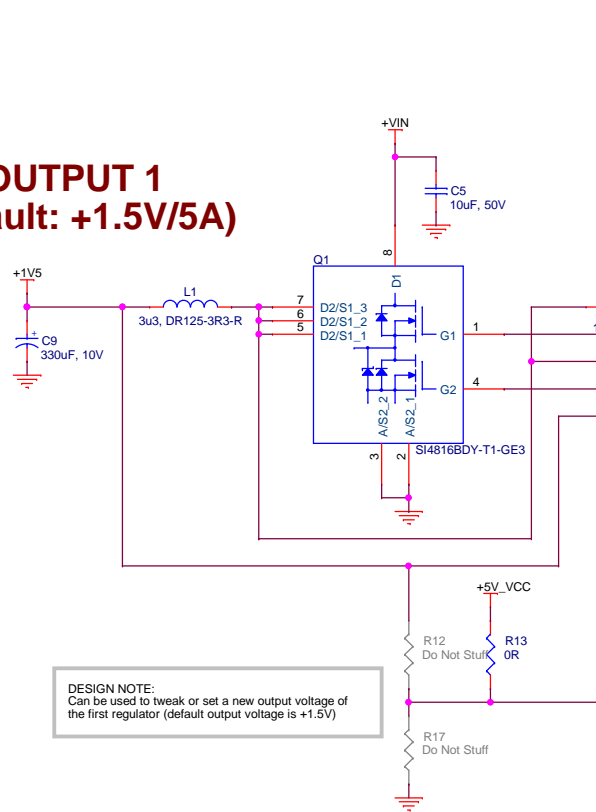


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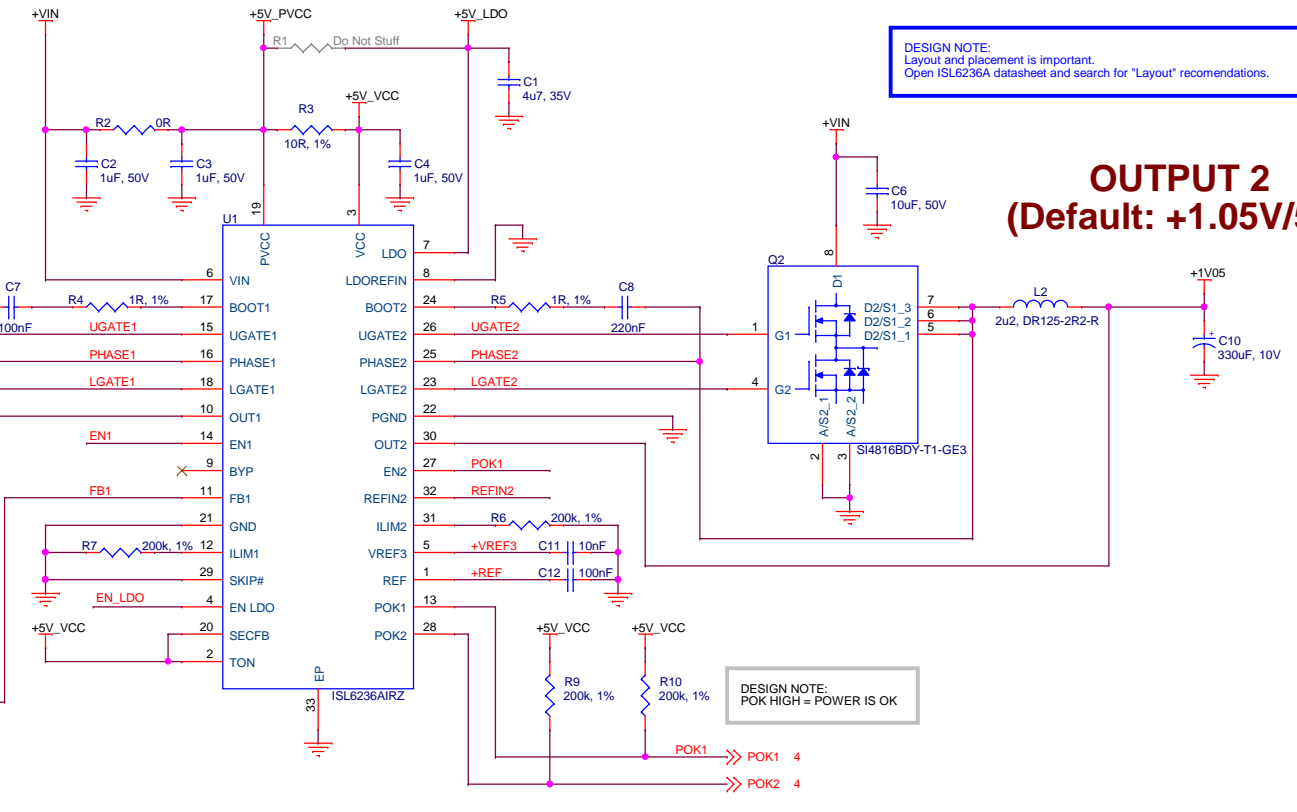
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Title: ISL6236A Project		Variant: 5V Variant		
Page: 02) BLOCK DIAGRAM		Checked by: <Checked by>		
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# 1.5V / 1.05V POWER SUPPLY

## OUTPUT 1 (Default: +1.5V/5A)



## OUTPUT 2 (Default: +1.05V/5A)

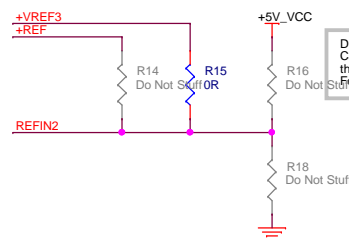
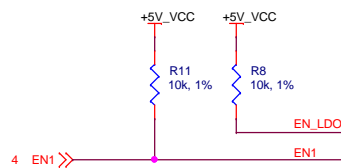


DESIGN NOTE:  
Layout and placement is important.  
Open ISL6236A datasheet and search for "Layout" recommendations.

DESIGN NOTE:  
Can be used to tweak or set a new output voltage of  
the first regulator (default output voltage is +1.5V)

DESIGN NOTE:  
POK HIGH = POWER IS OK

## Enable/Disable regulators



DESIGN NOTE:  
Can be used to tweak or set a new output voltage of  
the second regulator (default output voltage is +1.05V)  
For more details see datasheet.



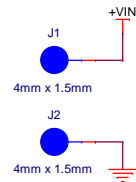
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Title: ISL6236A Project		Variant: 5V Variant	
Page: 03) +1.5V / +1.05V POWER SUPPLY		Checked by: <Checked by>	
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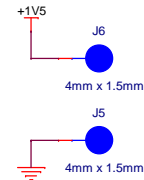
# PADS, TESTPOINTS, MECHANICAL

## Soldering pads for input and output wires

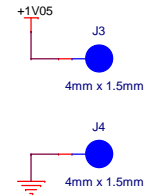
*+VIN: Main input power  
(Default from +6V to +24V)*



*Power supply output 1  
(Default +1.5V)*



*Power supply output 2  
(Default +1.05V)*



## Testpoints

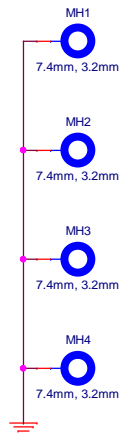
*ENABLE Testpoint*



*POK Testpoints*

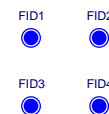


## Mounting holes

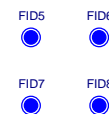


## Fiducials

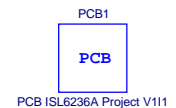
*TOP*



*Bottom*



## PCB



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# REVISION HISTORY

01-NOV-2017: Put here a brief info about the change  
Detailed description of all the changes - Testing Lite



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Page: 05) REVISION HISTORY		Checked by: <Checked by>		
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