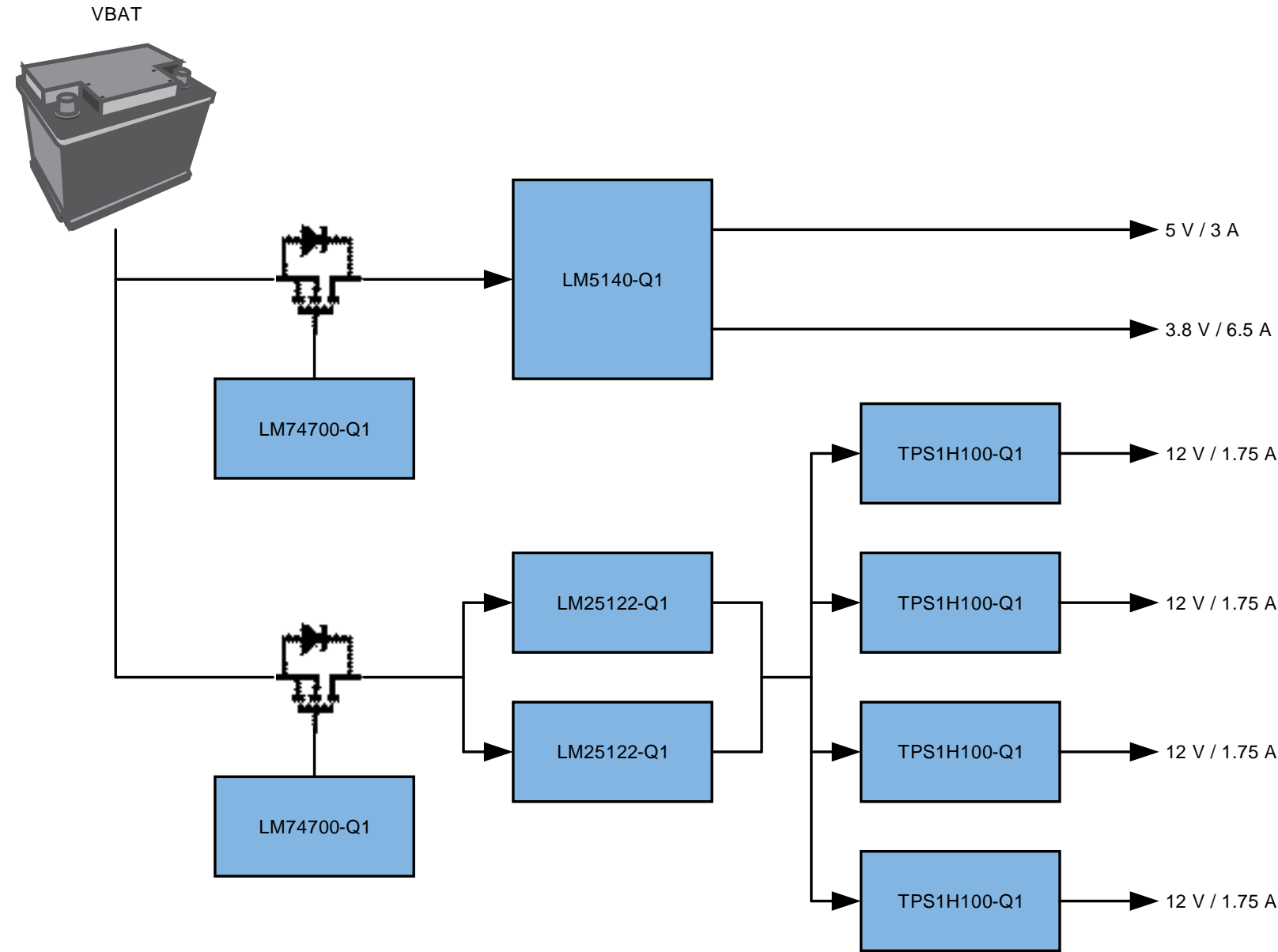


Revision History				
Rev	ECN #	Approved Date	Approved by	Notes

Designator
TIDA-01534_Buck_Branch.SchDoc

Estimated Input currents at full steady state and max peak loads
 Steady state: 7.1A at 6Vin; 4.75A at 9Vin (93% eff.)
 14.3A peak at 6Vin and 9.5A peak at 9Vin (91% eff)



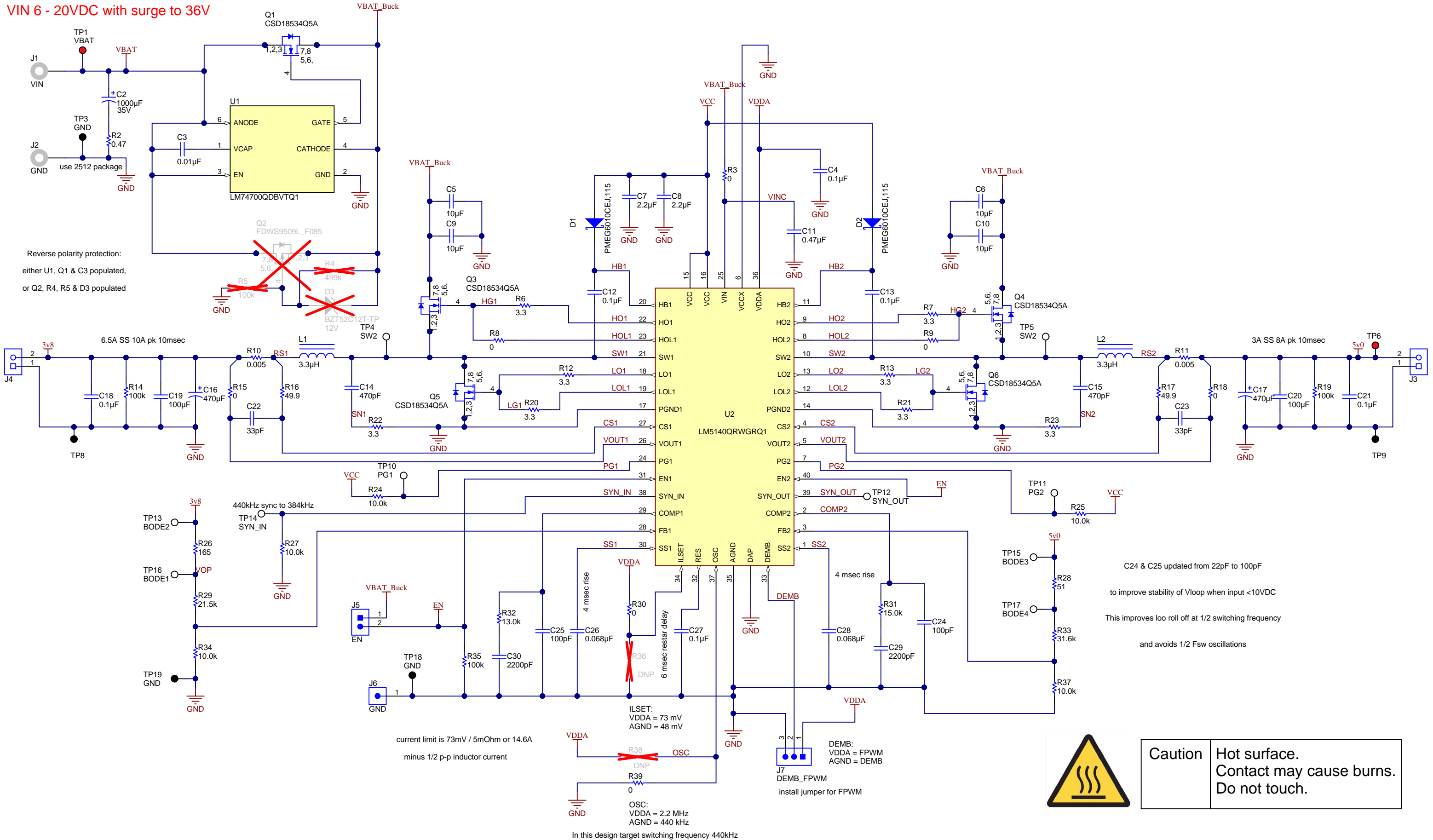
Vin ranges
 9V-20V steady state
 down to 6V and up to 36V for ~1/2 second

Designator
TIDA-01534_Boost_Branch.SchDoc

Estimsted input currents for 12Vout at 10A or 120W load:
 6Vin 88% eff. 22.7A; 9Vin 90% eff. 14.8A

Designator
TIDA-01534_PowerSwitches.SchDoc

VIN 6 - 20VDC with surge to 36V



Caution Hot surface.
Contact may cause burns.
Do not touch.

Orderable: N/A	Designed for:	Mod. Date: 12/19/2017
TID #: TIDA-01534	Project Title: Automotive Off-battery Dual-phs Boost Convrtr	
Number: TIDA-01534	Rev: A	Sheet Title:
SVN Rev: 3503	Assembly Variant: 001	Sheet: 2 of 4
Drawn By:	File: TIDA-01534_Buck_Branch.SchDoc	Size: B
Engineer: Josh Mandelcom	Contact: http://www.ti.com/support	

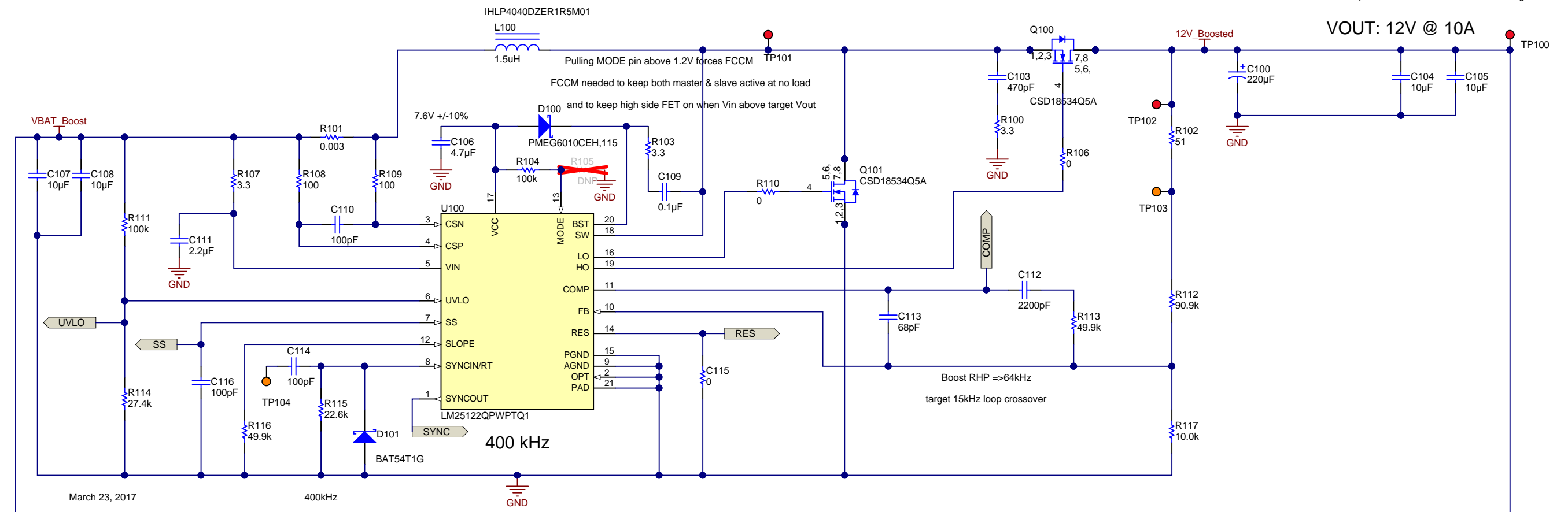
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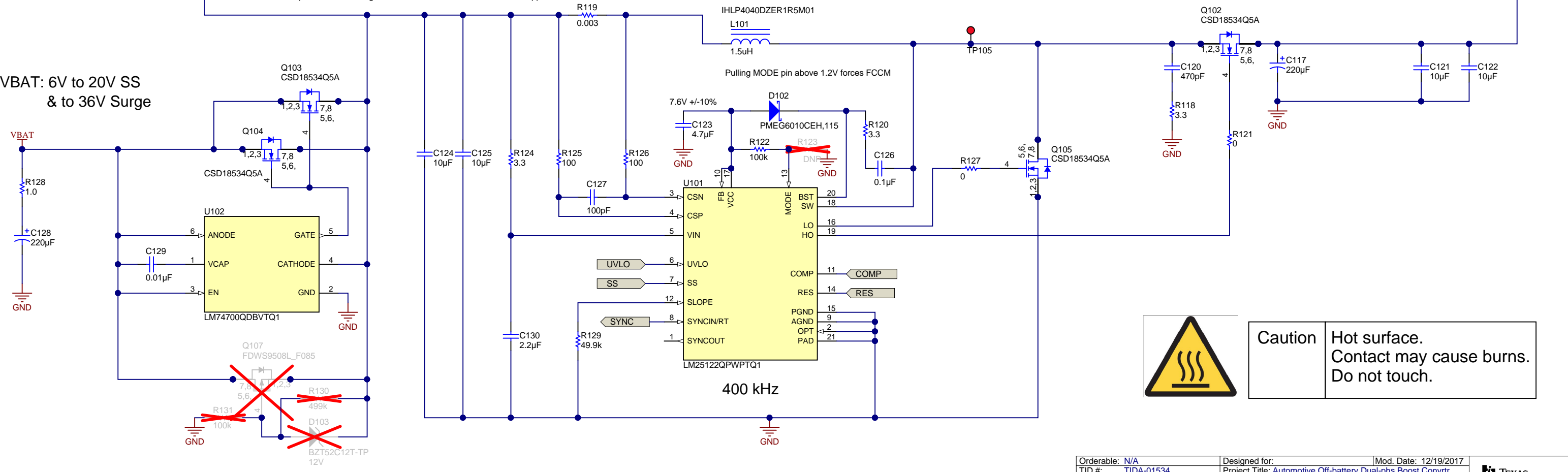
For VBAT > 12V output to follow VBAT to 36V max in Surge

VOUT: 12V @ 10A

UVLO shutdown:
on at 5.6Vin, off at 4.6Vin



VBAT: 6V to 20V SS
& to 36V Surge

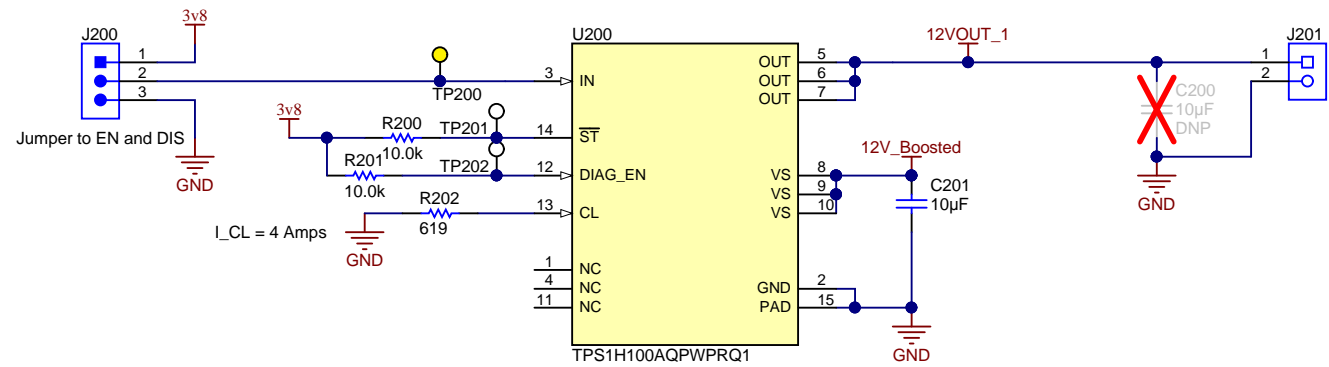


Caution Hot surface.
Contact may cause burns.
Do not touch.

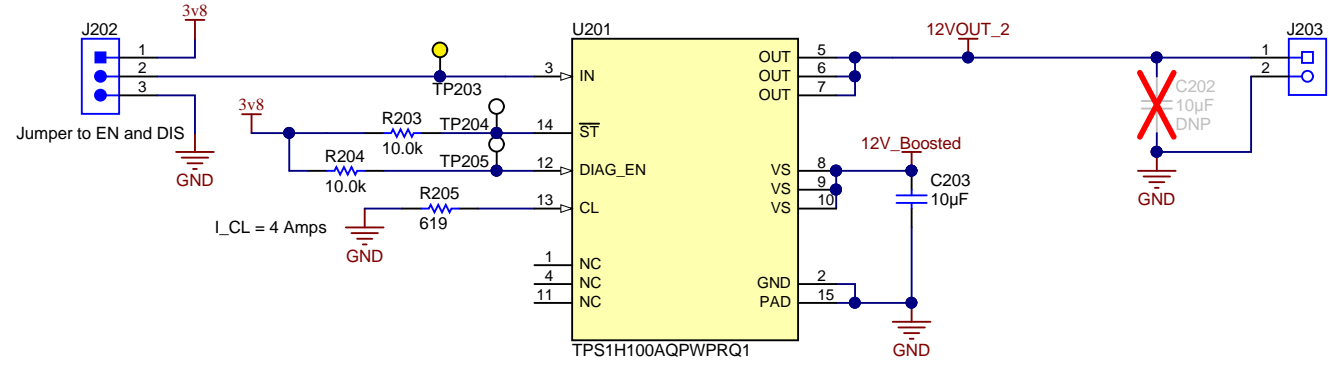
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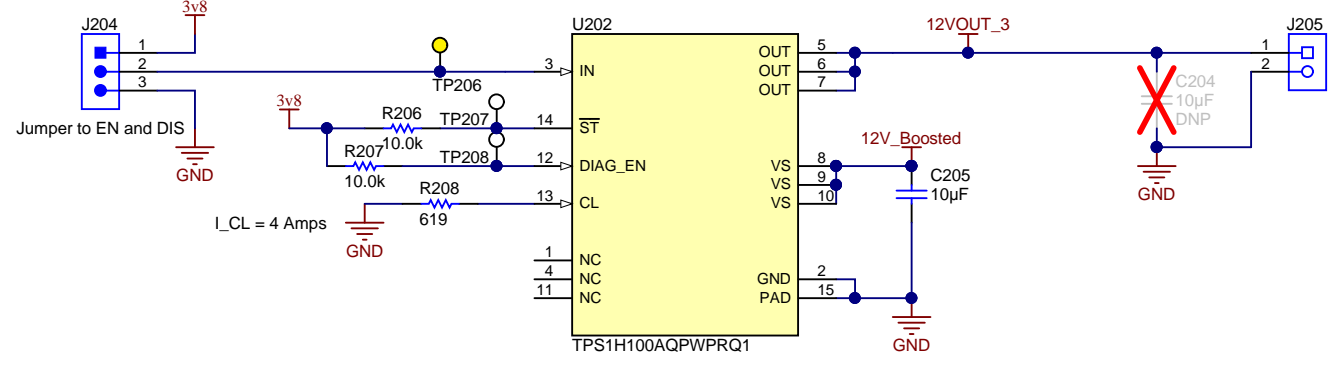
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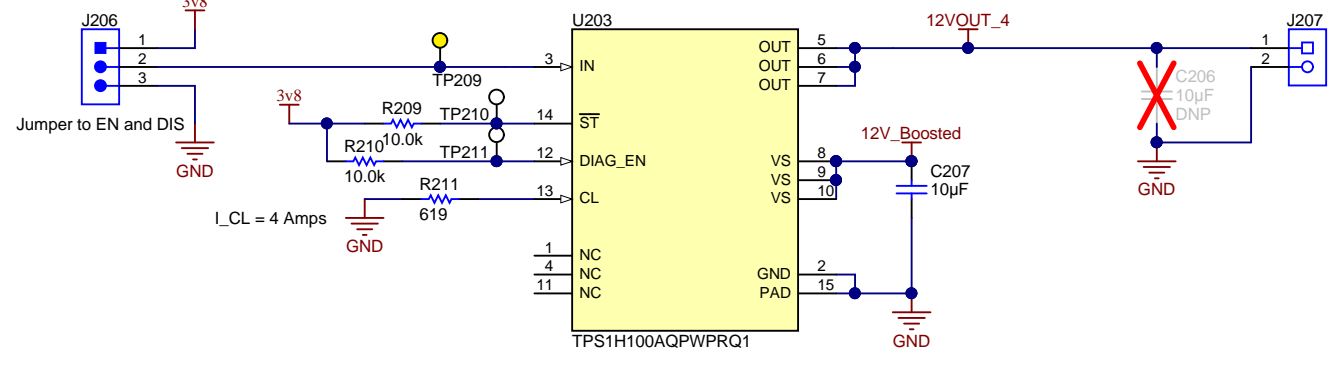
12 V @ 2.5 A max



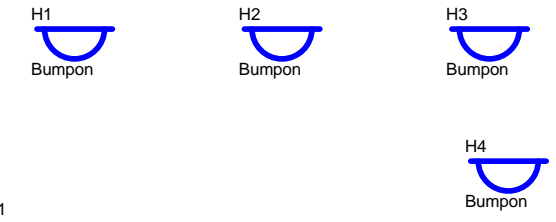
12 V @ 2.5 A max



12 V @ 2.5 A max



12 V @ 2.5 A max



PCB Number: TIDA-01534
PCB Rev: A



Logo2
PCB
LOGO
Pb-Free Symbol
PCB
LOGO
FCC disclaimer

Variant/Label Table	
Variant	Label Text
001	N/A

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.

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