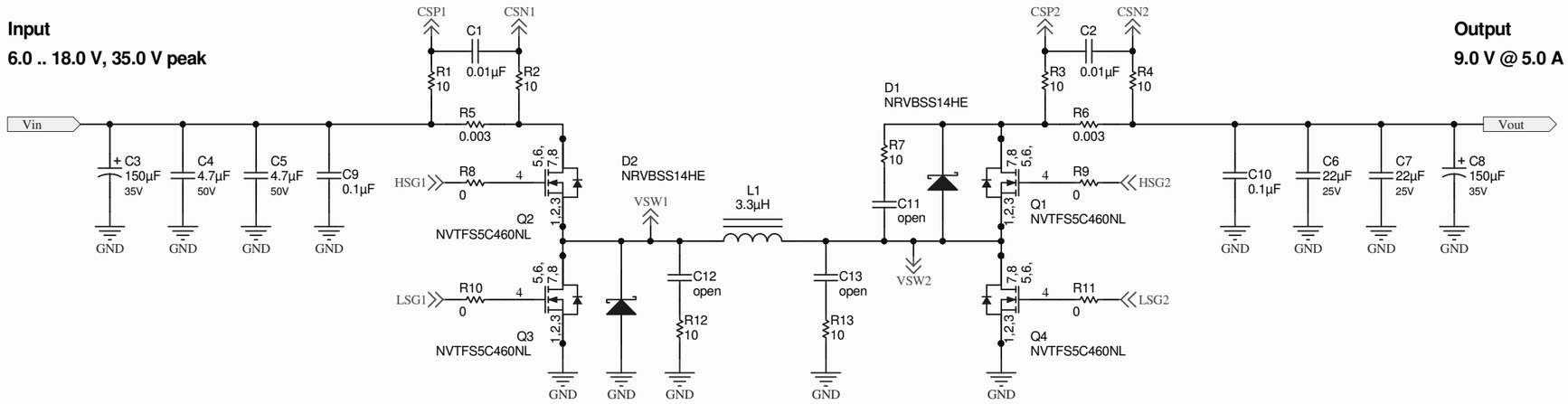
Revision History	
Revision	Notes
A	* Paper Design

Input

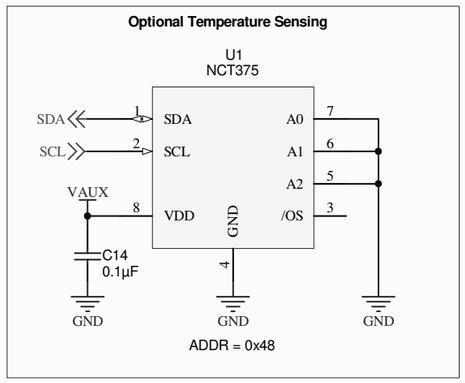
6.0 .. 18.0 V, 35.0 V peak

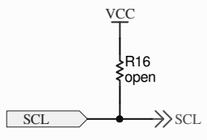
Output

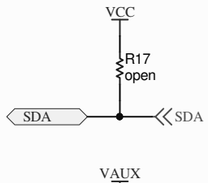
9.0 V @ 5.0 A

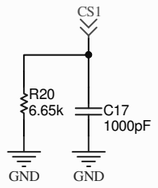


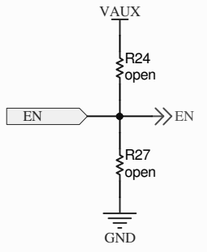
Optional Temperature Sensing

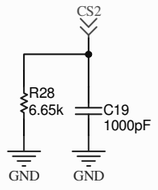


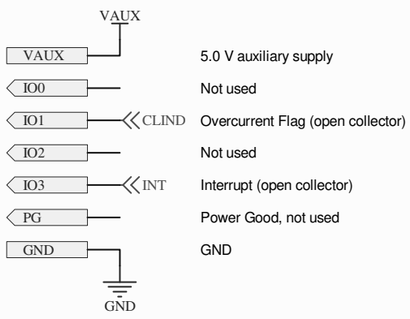


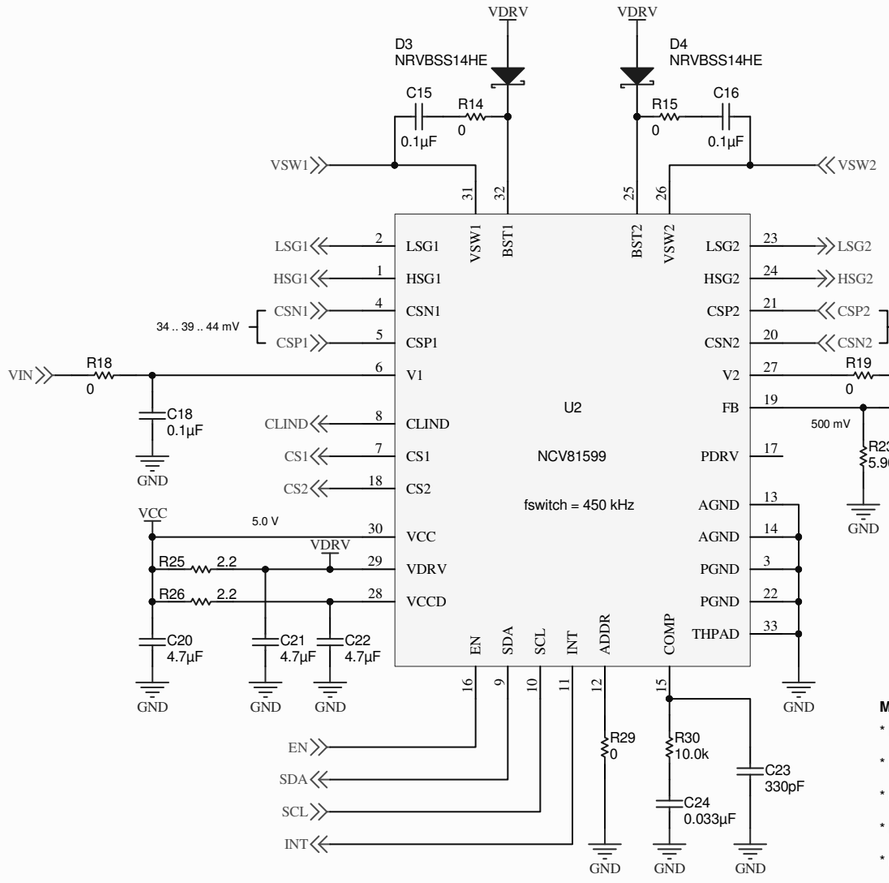












Switching frequency needs to be set to 450 kHz by I2C

* Default: 600 kHz
* 450 kHz: write 03H into register 03H

ADDR0 = 74H = 0 Ohm

ADDR1 = 75H = 18.2 kOhm

ADDR2 = 76H = 34.0 kOhm

ADDR3 = 77H = 54.9 kOhm

Max. Current Stress (6.0 .. 18.0 V input)

* Input Capacitance: 2.6A rms
* HS FET Buck: 6.5 A peak, 4.8 A rms
* LS FET Buck: 6.5 A peak, 3.4 A rms
* Inductor: 8.1 A peak, 7.5 A rms
* HS FET Boost: 8.1 A peak, 6.1 A rms
* LS FET Boost: 8.1 A peak, 4.4 A rms
* Outut Capacitance: 3.6A rms

Title: Automotive Buck-Boost			Engineer: Matthias Ulmann
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Date: 3/4/2020	Time: 9:55:13 AM	Sheet 1 of 1	ON Semiconductor
File: P12RevB.SchDoc			