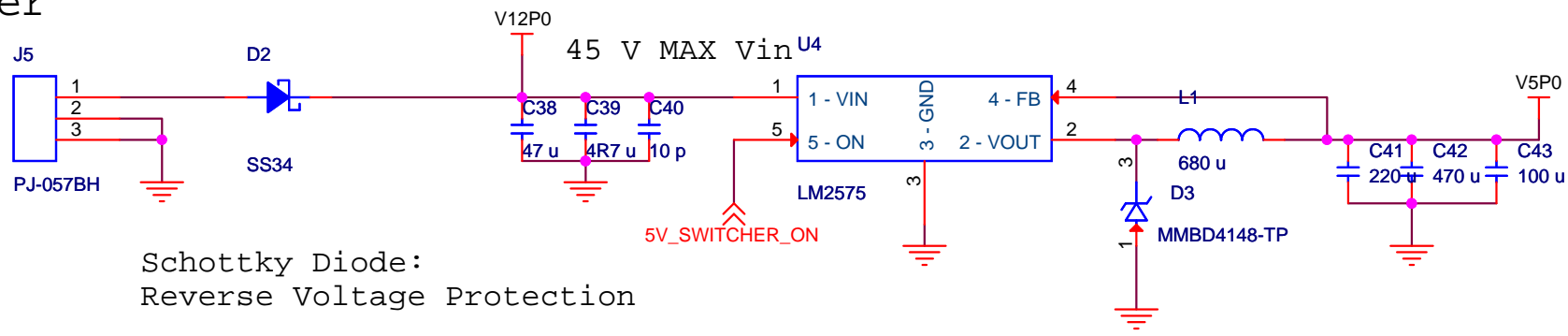


100 - MICRO

Title		
Steam Valve Controller		
Size B	Document Number 014-50014-00	Rev A
Date: Thursday, January 06, 2011	Sheet 1	of 7

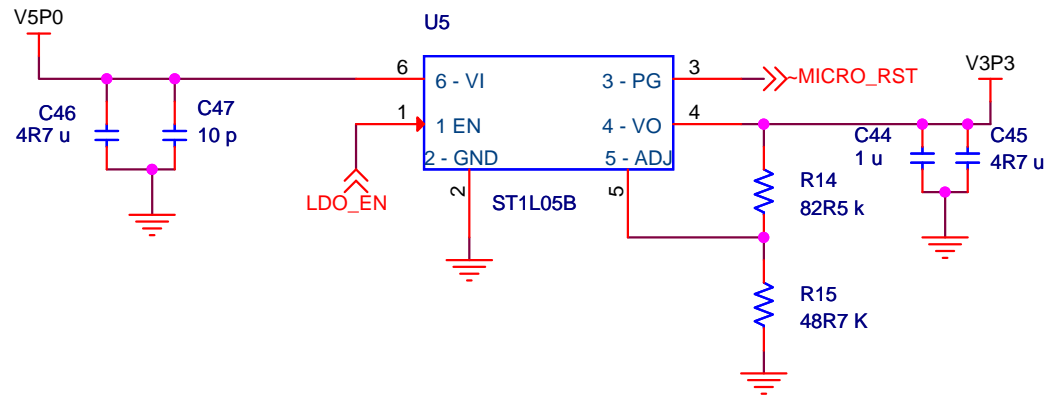
12 V Port:
AC/DC outlet power
supply input

12 V to 5 V Buck Converter: 52 KHz switching freq

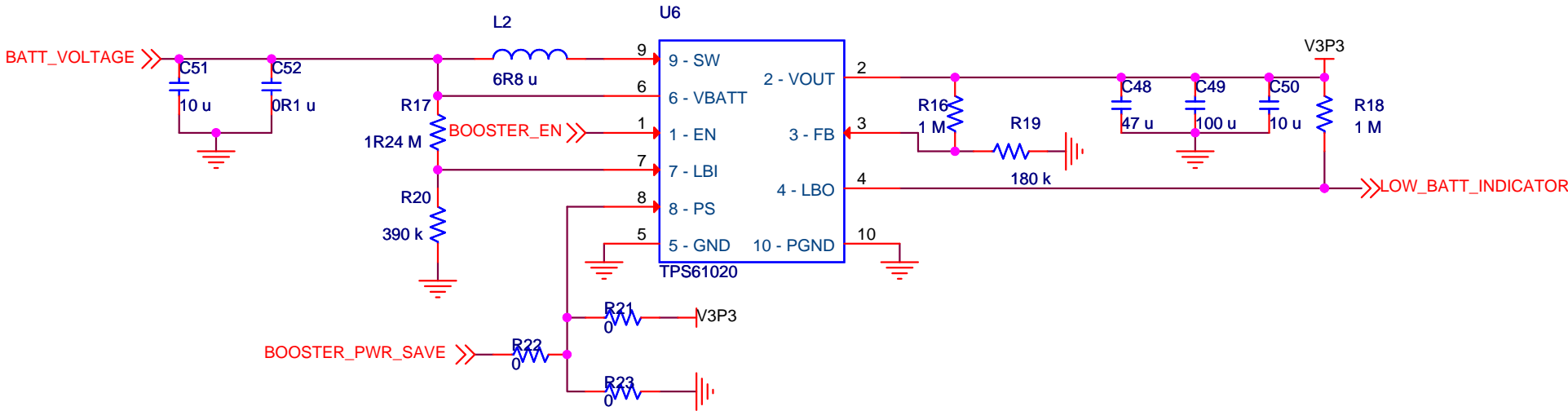


Schottky Diode:
Reverse Voltage Protection

5 V to 3.3 V LDO: Low Dropout Regulator

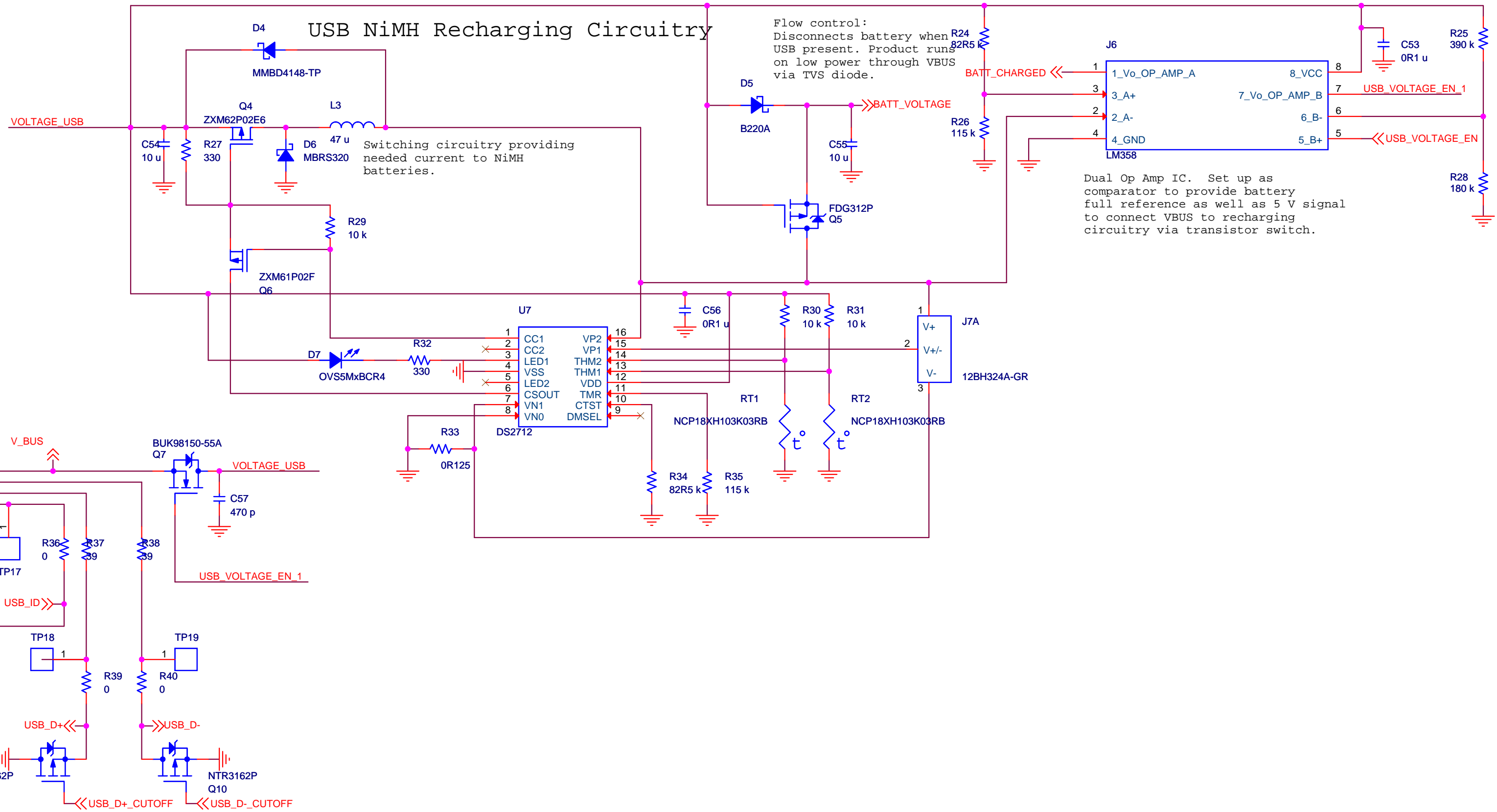


0.9-6.5 V to 3.3 V Boost Converter: ~600 KHz switching freq



200 - POWER

Title		
Steam Valve Controller		
Size B	Document Number 014-50014-00	Rev A
Date:	Thursday, January 06, 2011	Sheet 2 of 7

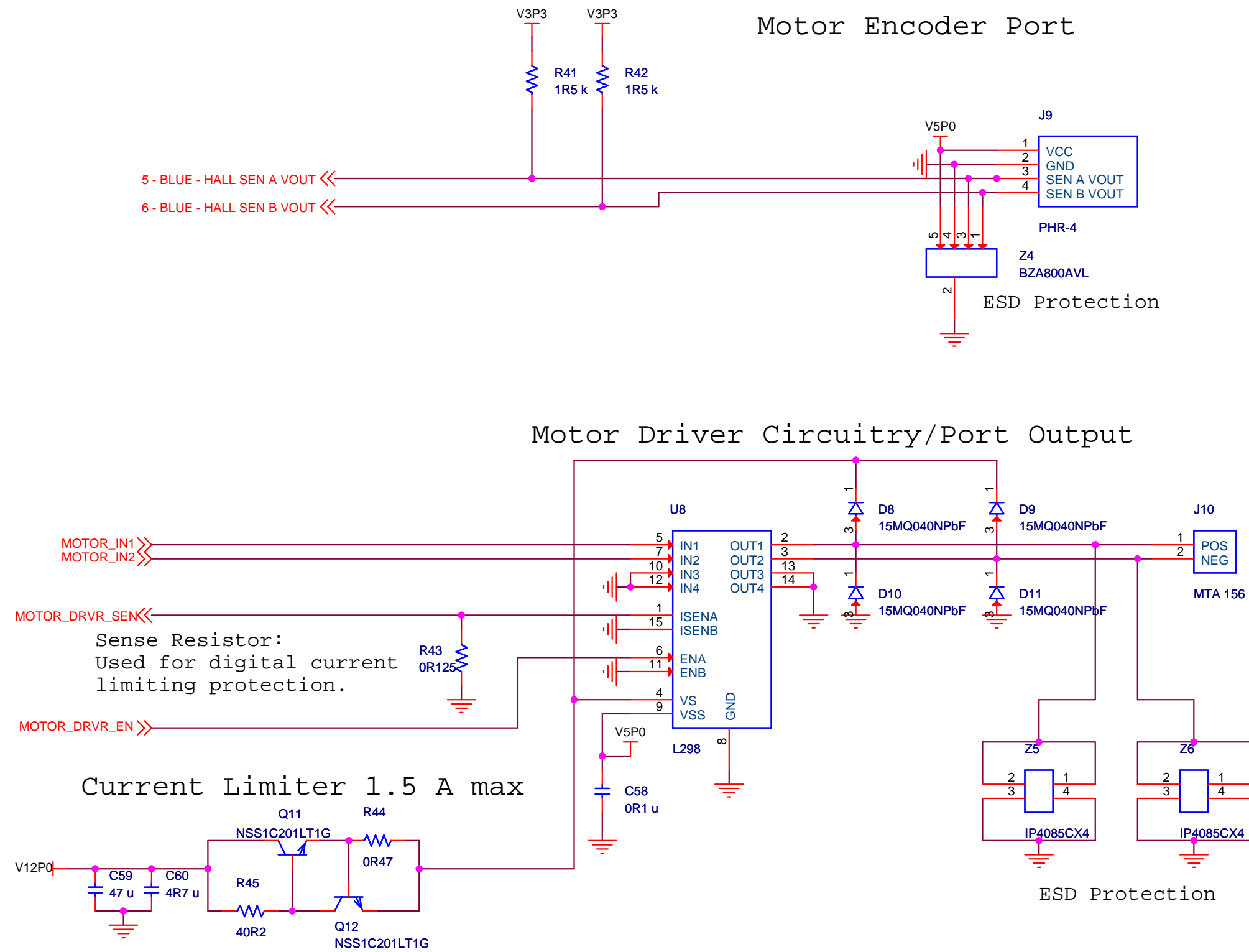


USB Microcontroller Connect/Enumeration

300 - USB CHARGER

Enumeration will be completed in software in order to allow for the maximum allowable USB current to charge the batteries. Transistors are used to regulate power after the enumeration process is complete.

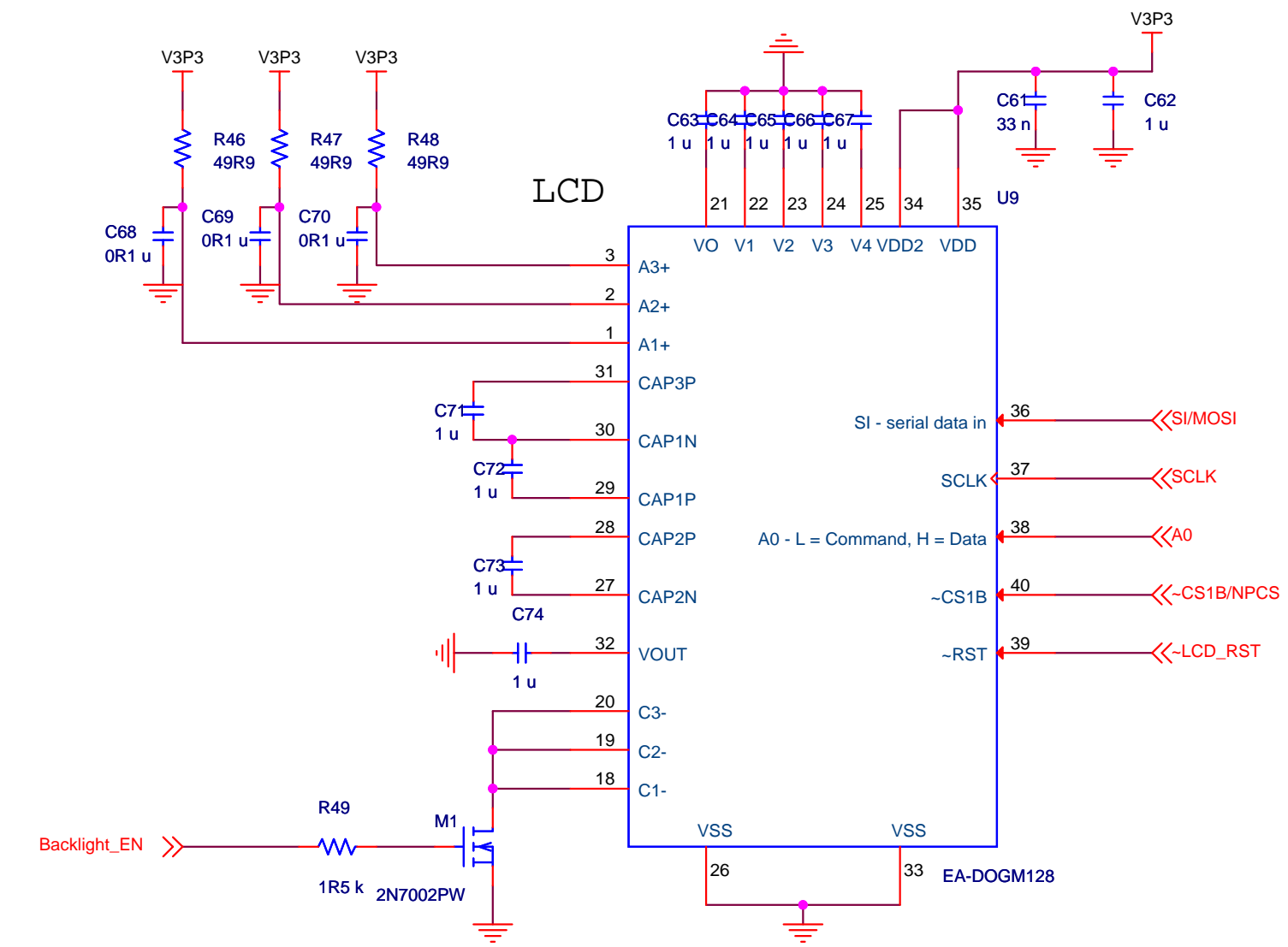
Title		
Steam Valve Controller		
Size B	Document Number 014-50014-00	Rev A
Date:	Thursday, January 06, 2011	Sheet 3 of 7



400 - MOTOR SYSTEM

Title		
Steam Valve Controller		
Size B	Document Number 014-50014-00	Rev A

Date: Thursday, January 06, 2011 Sheet 4 of 7



500 - LCD

Title		
Steam Valve Controller		
Size B	Document Number 014-50014-00	Rev A
Date:	Thursday, January 06, 2011	Sheet 5 of 7



Date: Thursday, January 06, 2011 Sheet 6 of 7

