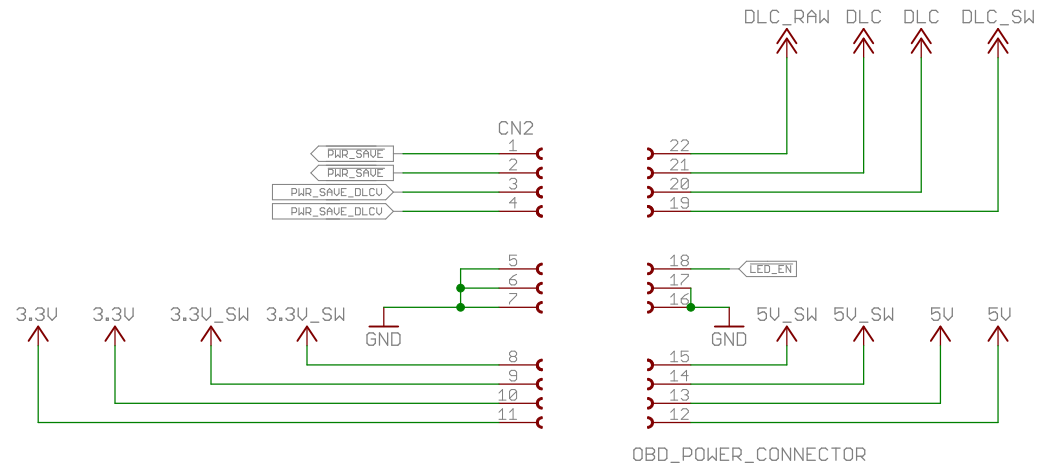
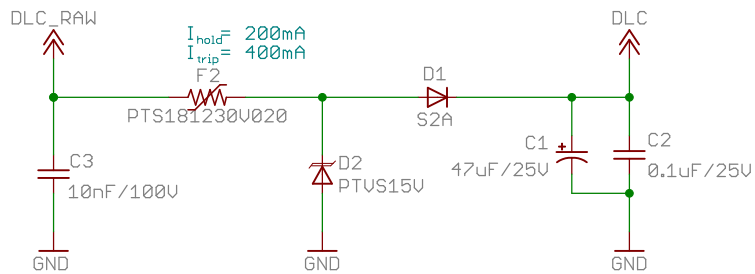


[illegible]

## Connector



# 5V Power Supply

The circuit diagram illustrates a 5V Power Supply using the LTC3824MSOP\_PAD IC. The IC is configured with various components to regulate the output voltage and current.

**Key Components and Connections:**

- IC1 (LTC3824MSOP\_PAD):** The central integrated circuit.
- Input:** The input is connected to the VCC pin (pin 8) and the SENSE pin (pin 7). A 100pF capacitor (C6) is connected between VCC and SENSE. The input is also connected to the GATE pin (pin 9) through a 100pF capacitor (C6) and a 0.025 ohm resistor (R1).
- Output:** The output is connected to the VFB pin (pin 5) and the RSET pin (pin 3). The output voltage is 5V, and the maximum current is  $I_{max} = 1.5A$ .
- Resistors:** R1 (0.025 ohm), R2 (130k), R3 (50 ohm), R4 (105k), R5 (20k), R6 (15k).
- Capacitors:** C4 (1uF/25V), C5 (0.1uF/25V), C6 (100pF), C7 (100pF), C8 (47uF/10V), C9 (10uF/10V), C10 (0.1uF), C11 (1nF).
- Diodes:** D3 (1N5819), Q6 (IRLML9303).
- Inductor:** L1 (10uH).

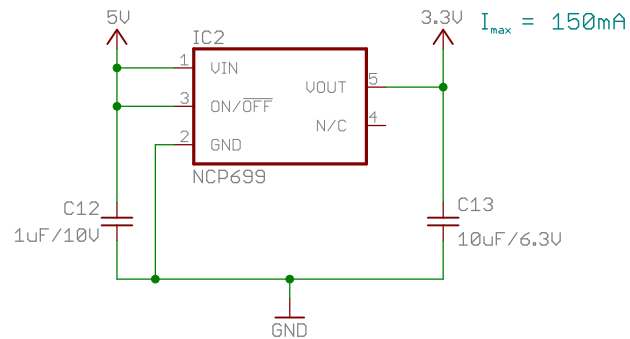
**Additional Information:**

- The input current is  $I_0 = 40\mu A$ .
- The output current is  $I_{max} = 1.5A$ .
- The output voltage is 5V.

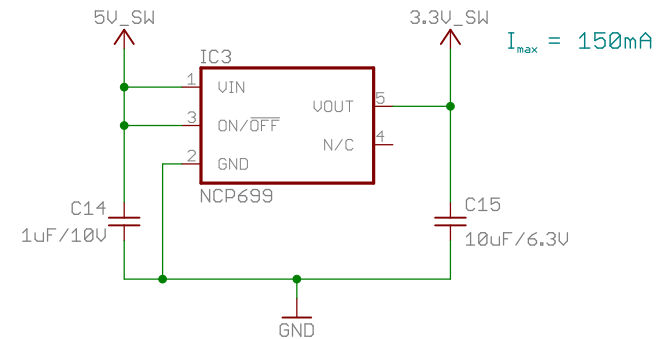
Title:
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5V,
Date:

Title: OBD Power Module	Rev: 1.3/D
Description: 5V, DLC, 3.3V Power Module	
Date: 9/17/2013 11:32:27 AM	Sheet: 1/2

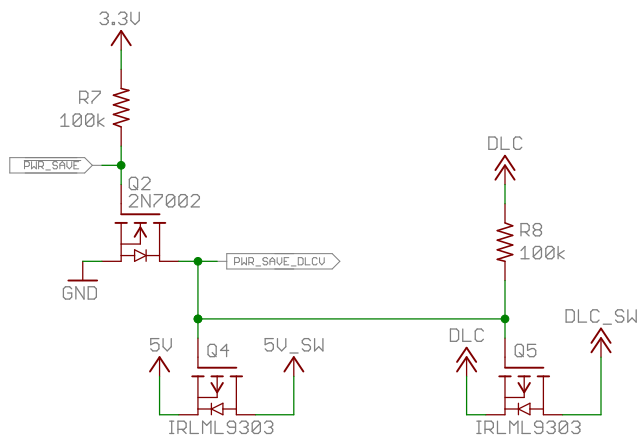
## 3.3V Power Supply



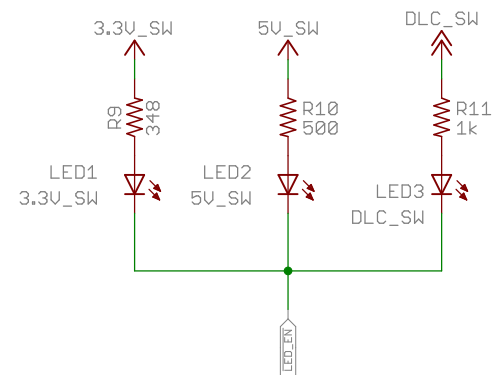
## 3.3V\_SW Power Supply



## Switched Power Control



## LEDS



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Title:	OBd Power Module	Rev:	1.3/D
Description:	5V, DLC, 3.3V Power Module		
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