

Figure 1: Simulation Plot of V_{in} from the Barrel Jack and V_{out} from the Buck Converter

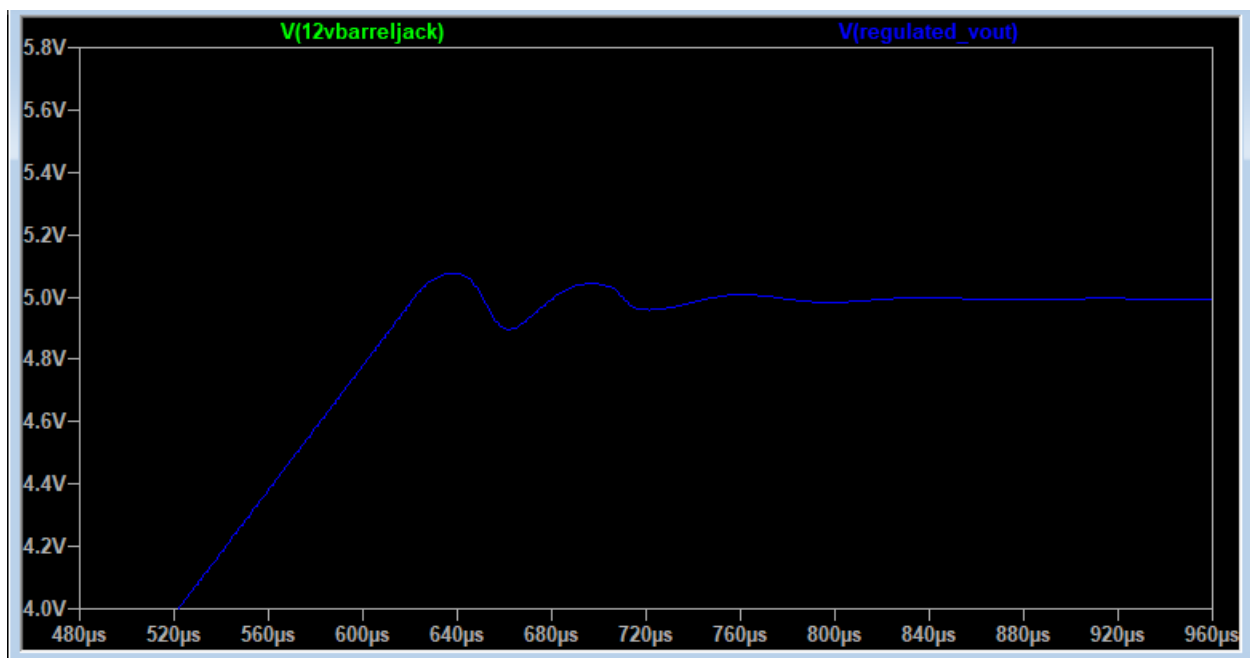


Figure 2: Simulation of the Slightly Underdamped Response of the Buck Converter

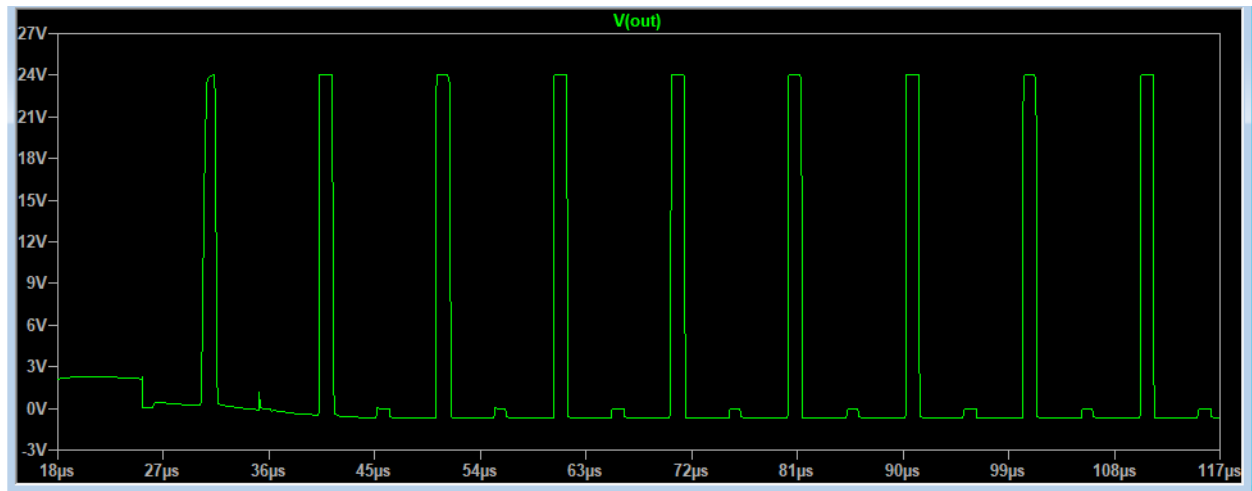


Figure 3: Plot showing the output voltage of the motor driver

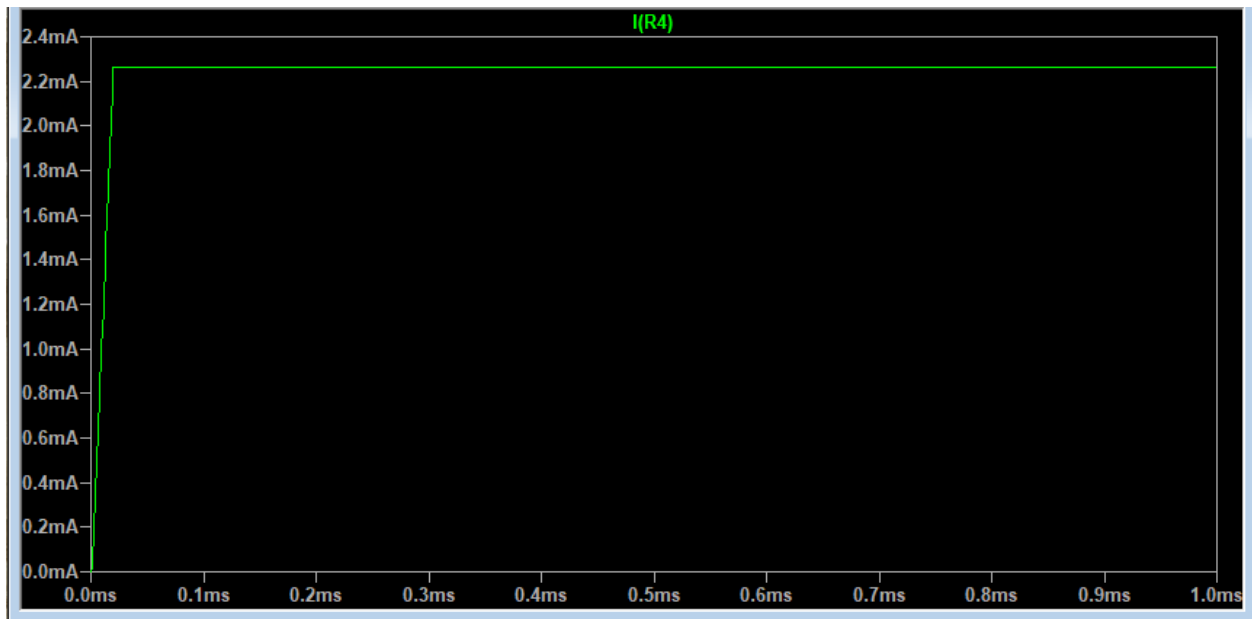


Figure 4: Plot showing the input current sourced by the Motor Driver

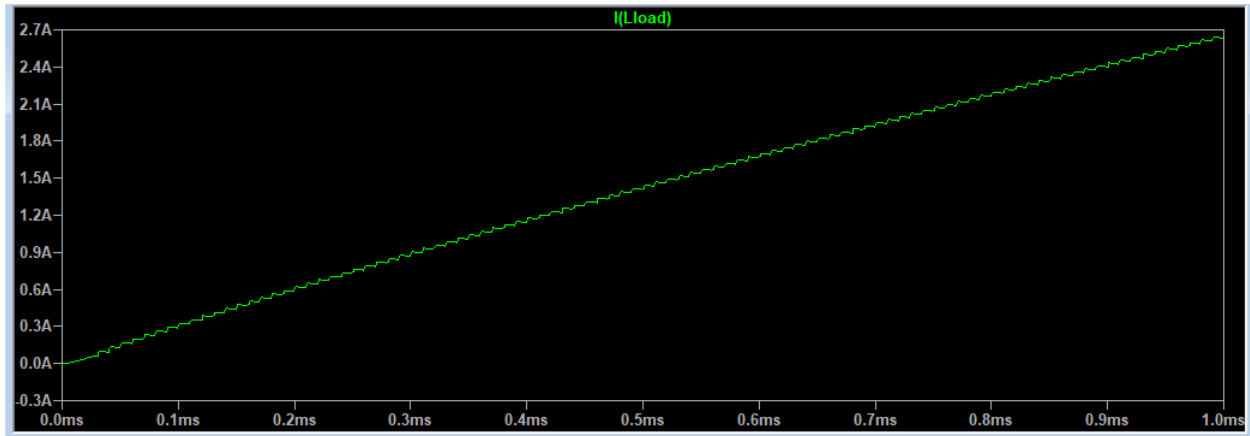


Figure 5: Plot showing the output current sank to the motor by the motor driver

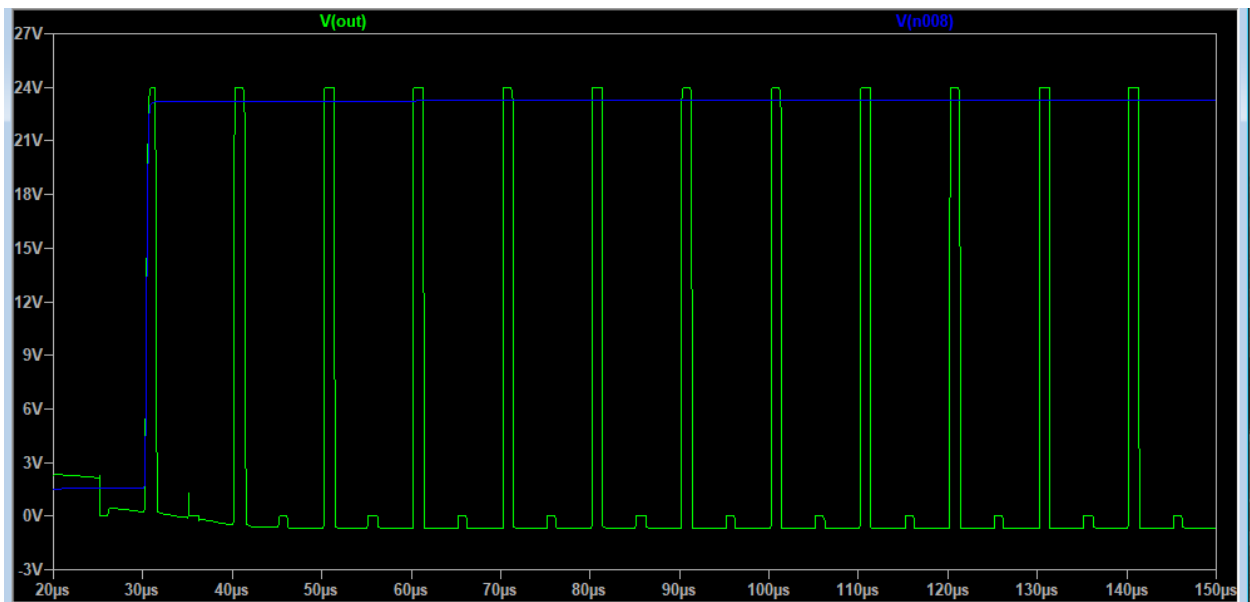


Figure 6: Plot of the motor driver output voltage (in green) and the voltage across the Motor Status LED after the holdup circuit



Figure 7: Voltage Across (Green) and Current through (Blue) the Power Supply Status LED