

1 Frequency Response

The picture below shows the loop response of the current controlled output on the customers LED setup.

LED setup

- 2 strings in parallel with 4 LEDs in series per string
- Driver output voltage on this LEDs during measurement: 13.9V
- Driver output current on this LEDs during measurement: 690mA

9V input voltage

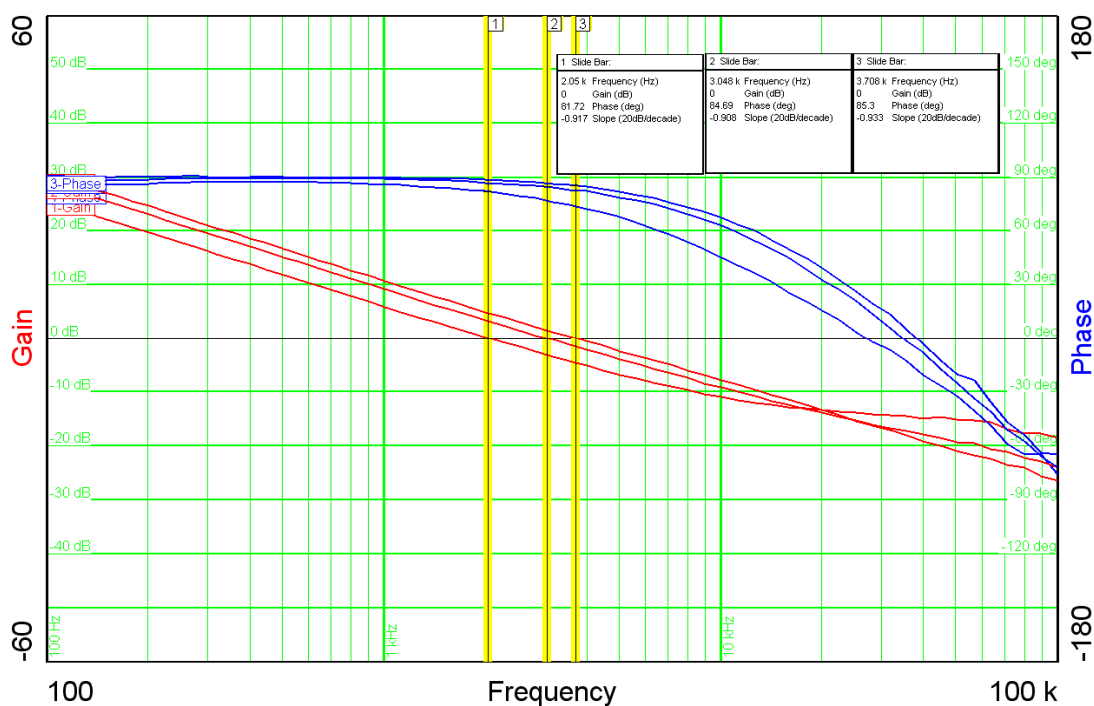
- 83 deg phase margin @ crossover frequency 2.1 kHz
- -14db gain margin

14V input voltage

- 85 deg phase margin @ crossover frequency 3.0 kHz
- -17db gain margin

19V input voltage

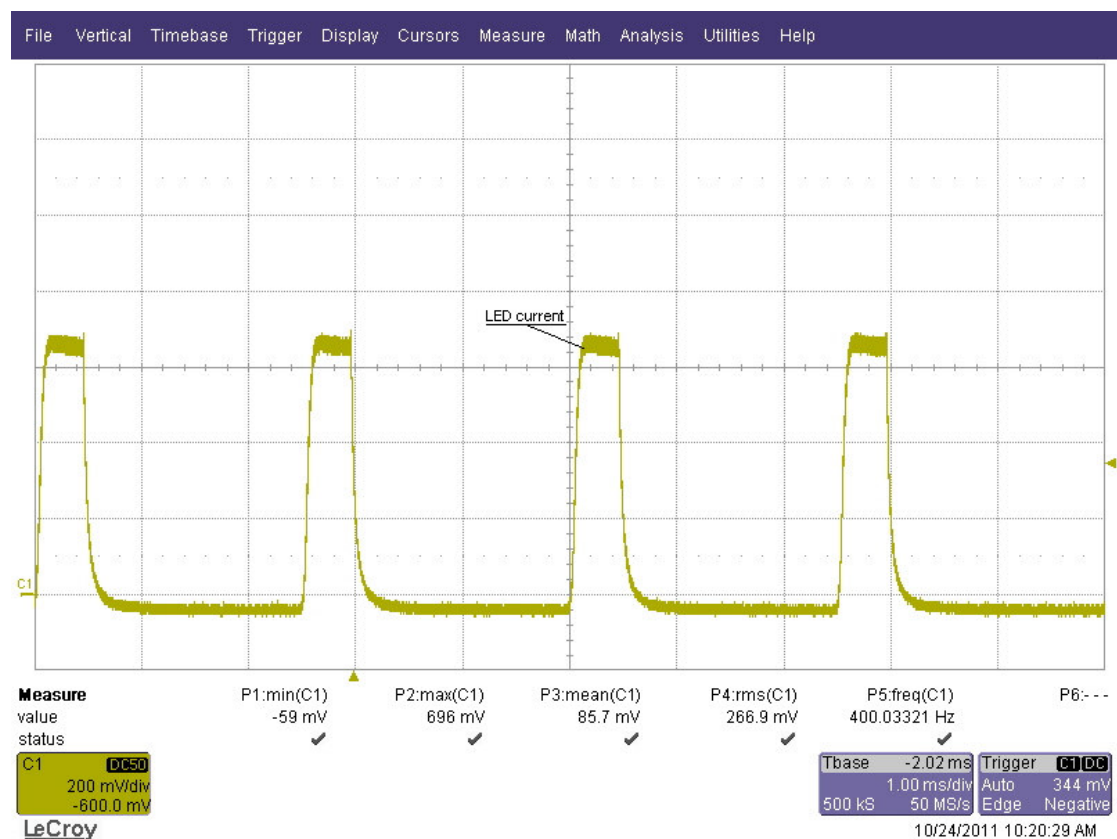
- 85 deg phase margin @ crossover frequency 3.7 kHz
- -19db gain margin



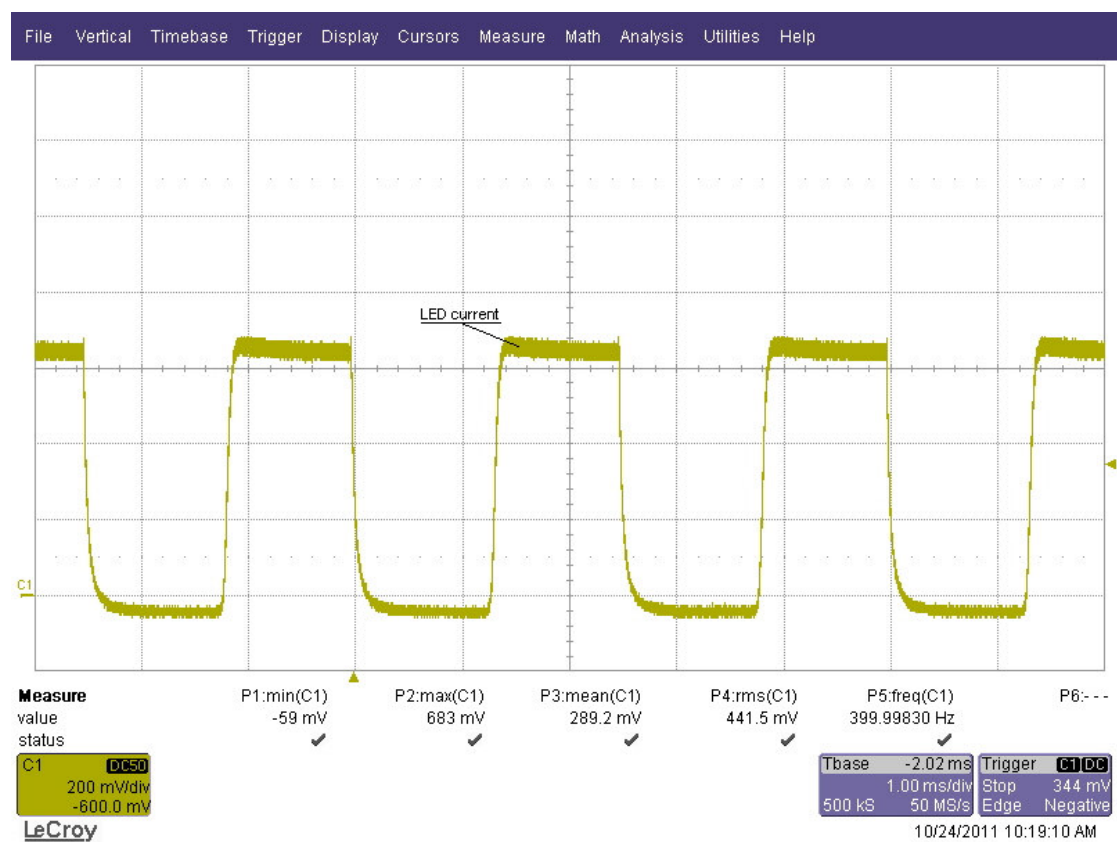
2 Output Current

The waveforms below show the output current with a dimming signal applied. The input voltage is set to 14.0V and the customers LED setup is used.

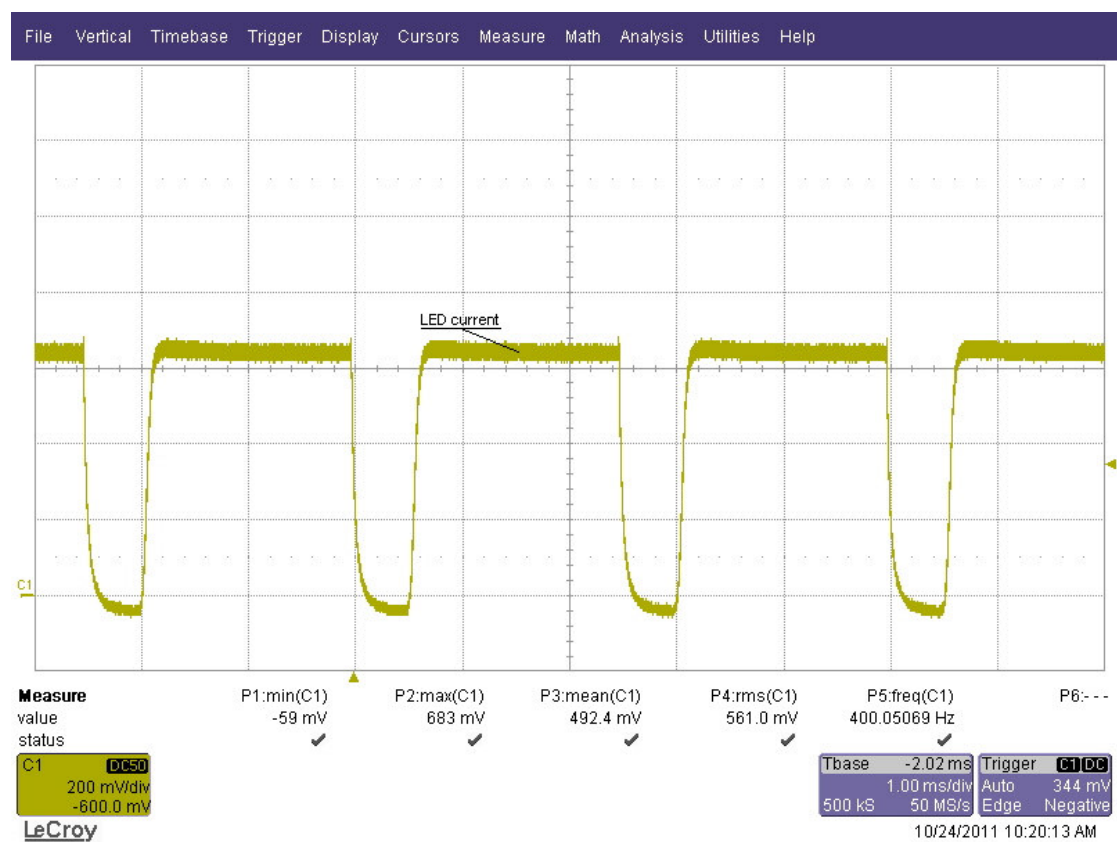
Channel C1: **Output current of LED driver with 14.0V input voltage, 20% duty cycle**
200mA/div, 1ms/div



Channel C1: **Output current of LED driver with 14.0V input voltage, 50% duty cycle**
200mA/div, 1ms/div



Channel C1: **Output current of LED driver with 14.0V input voltage, 80% duty cycle**
200mA/div, 1ms/div



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Your Sole Responsibility and Risk. You acknowledge, represent and agree that:

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