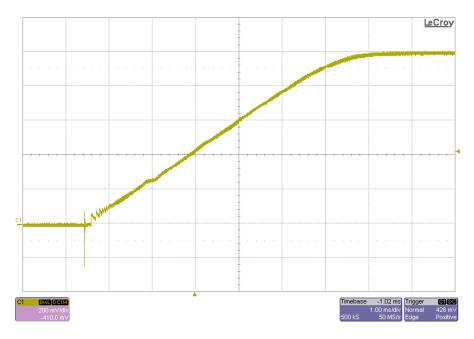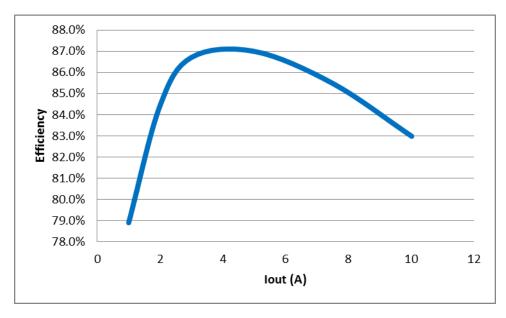# PMP9194 Test Results

TEXAS INSTRUMENTS

1 Startup

The startup waveform is shown in the figure below. The input voltage was set at 12V, with 1 A load on the output.
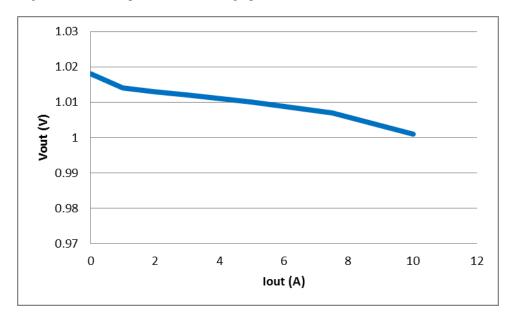

2 Efficiency

The efficiency is shown in the figure below. Vin = 12 volts, Vout = 1.0 volts
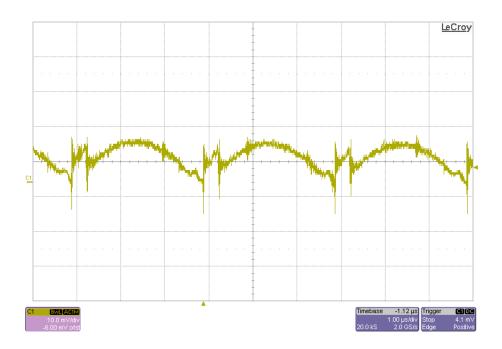
3   Load Regulation

The load regulation of the output is shown in the graph below.
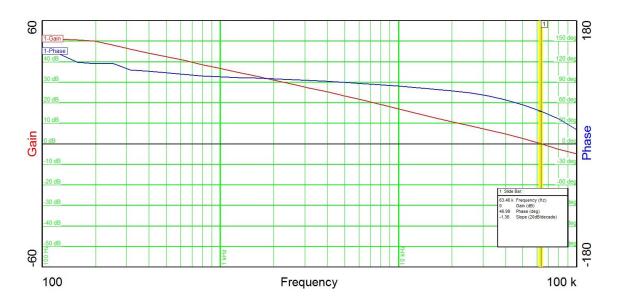

4   Output Ripple Voltage

The output ripple voltage is shown in the figure below. The image was taken with a 10 A load. 10 mV/div Vertical and 2 uS/div Horizontal.

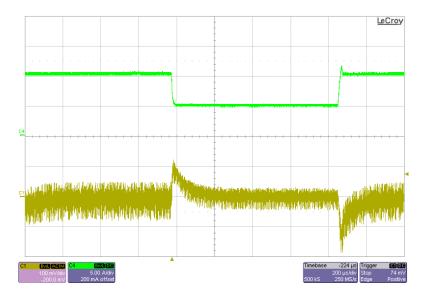# PMP9194 Test Results

5   Control Loop Frequency Response

The figure below shows the loop response with a 12V input, and a 1A load.

6   Load Transients

The figures below show the response to load transients. The input voltage was set to 12V.
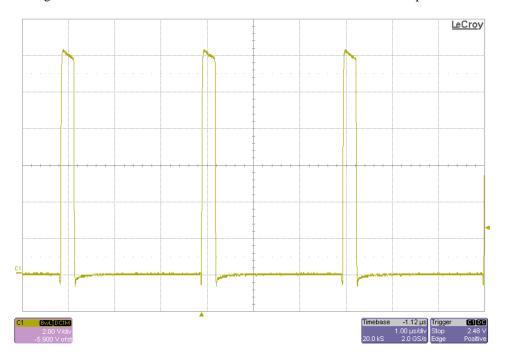
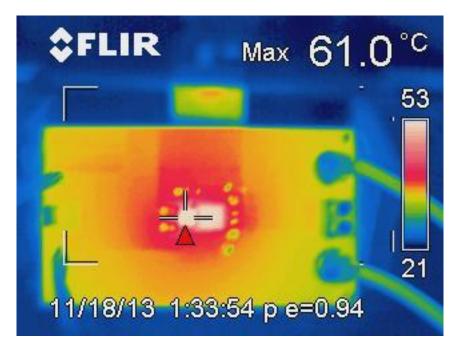Channel 1 : Vout (AC coupled)
Channel 4 : Load current

7   Switch Node Waveform

The figure below shows the switch node waveform at 12 volts in and 10 amps out.

8   Thermal Map

The figure below shows thermal map after 1 hour at 10 amp load and 1 volt in 25 C degree ambient. Max temperature rise was 35 C degrees.

9 Picture

The figure below shows the board in the same orientation as the thermal picture.

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