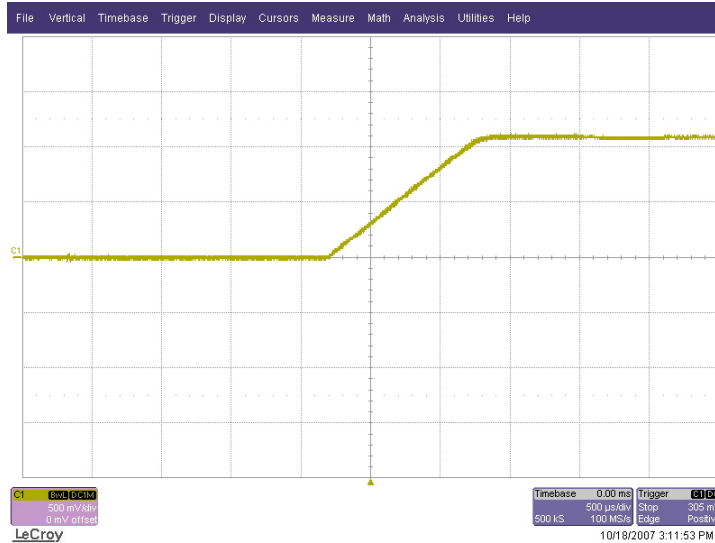


## 1 Startup

The photo below shows the startup waveform. The input voltage is 12V, the output is not loaded. The timebase is set to 500us/Division.

Channel 1 : 1.1V Output – Yellow (500mV/Division)

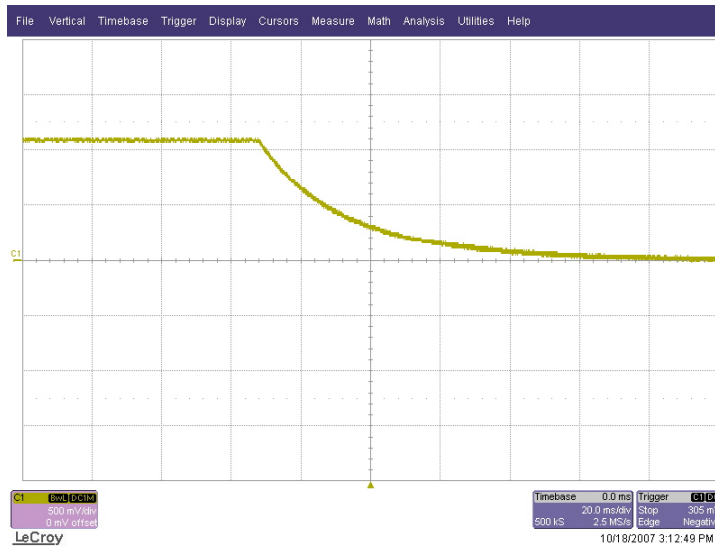


5V is applied

## 2 Shutdown

The photo below shows the shutdown waveform. The input voltage is 12V. The timebase is set to 20ms/Division. The output is unloaded. The supply is turned off by removing the 5V bias.

Channel 1 : 1.1V Output – Yellow (500mV/Division)

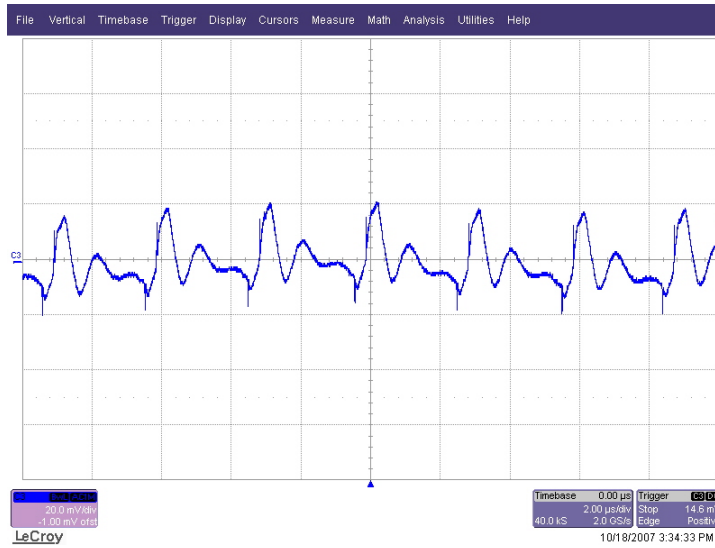


5V is removed

### 3 Output Ripple Voltage

The output voltage ripple is shown in the figure below. The input is 12V. The output is fully loaded. The timebase is 2us/Division.

Channel 3 : 1.1 Output – Blue (AC Coupled; 20mV/Division)

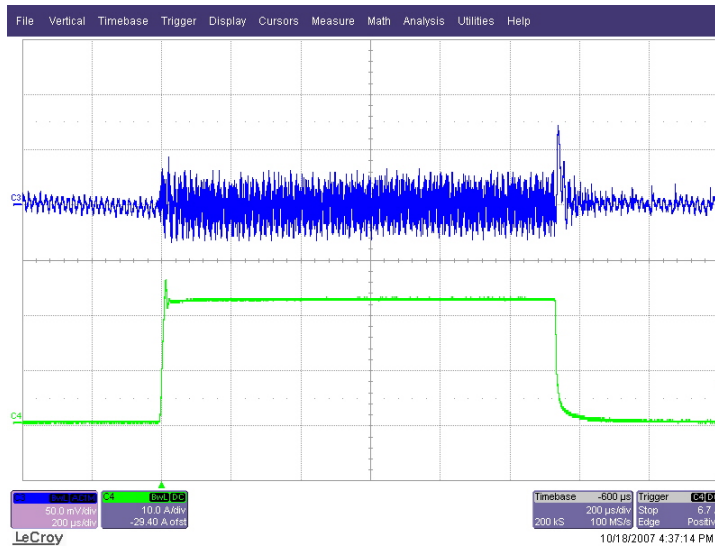


### 4 Load Transients

The photo below shows the transient response. The current is pulsed from 0% to 100% load. The timebase is set to 200us/Division.

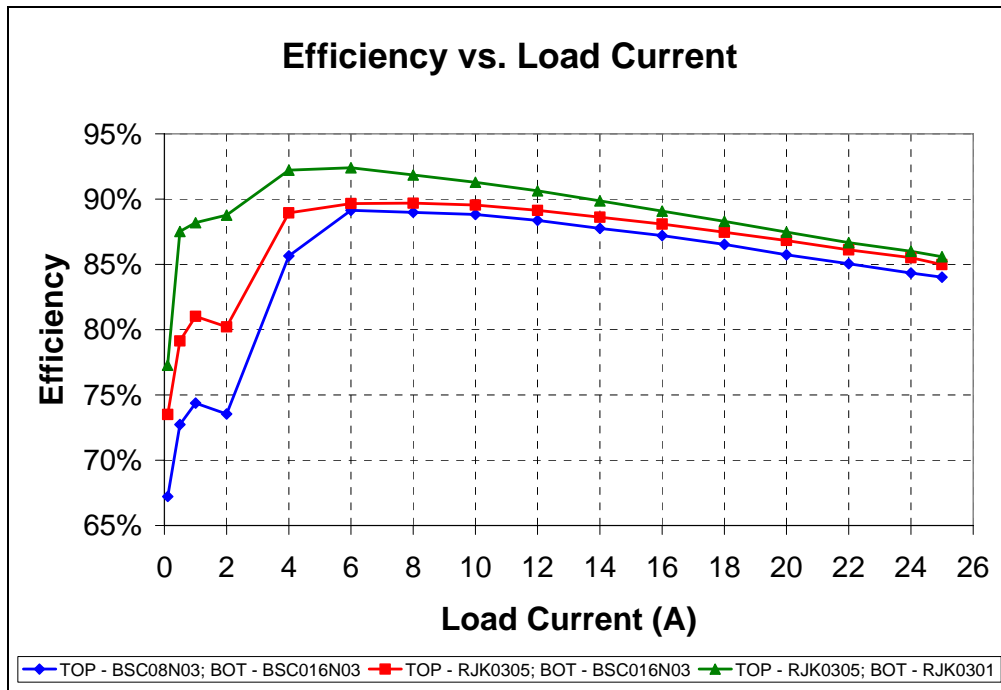
Channel 3 : 1.1V Output – Blue (AC Coupled; 50mV/Division)

Channel 4 : Output Current – Green (10A/Division)

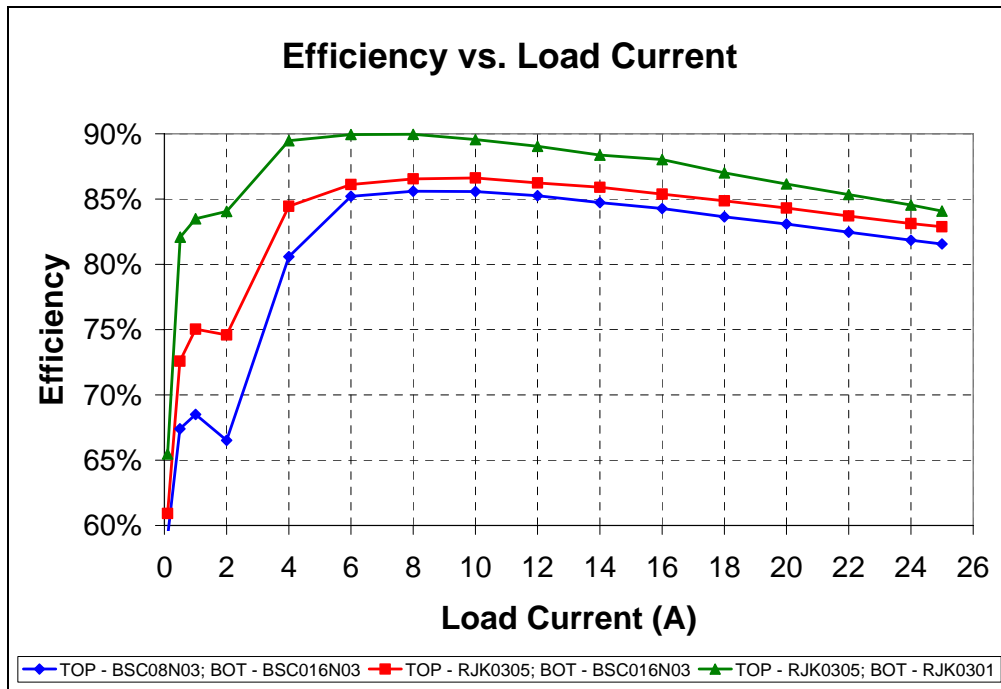


## 5 Efficiency

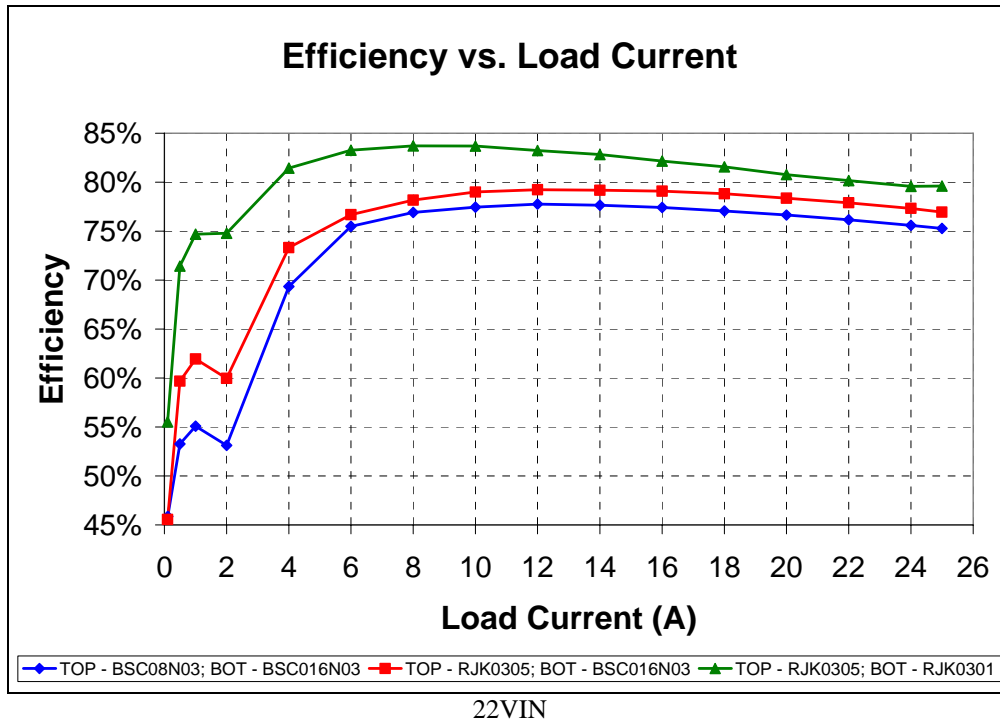
The efficiency is shown in the figure below.



7.5VIN

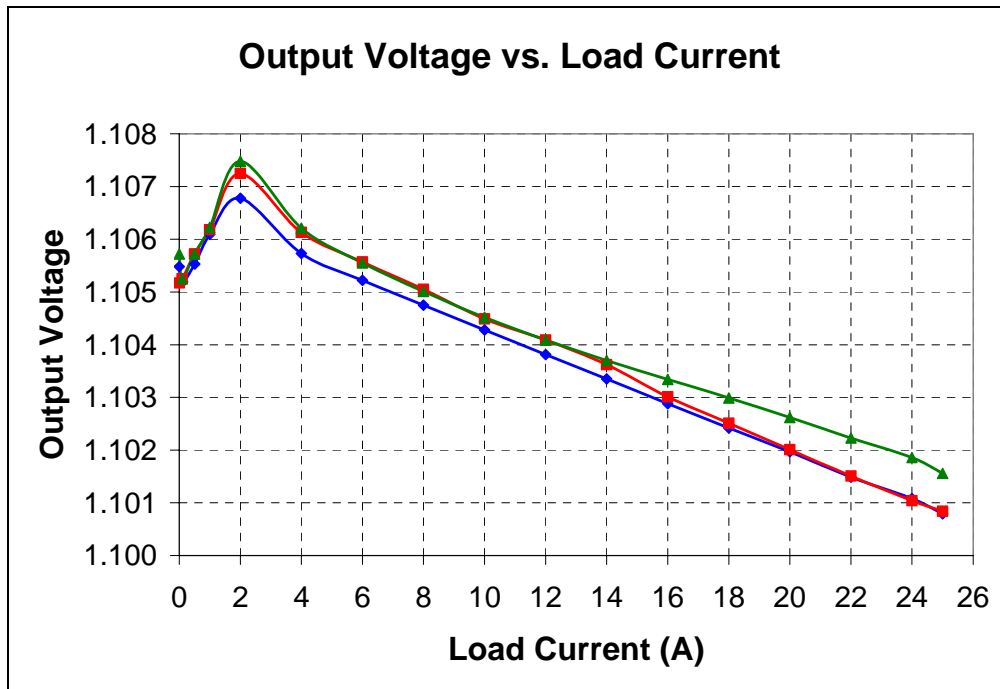


12VIN



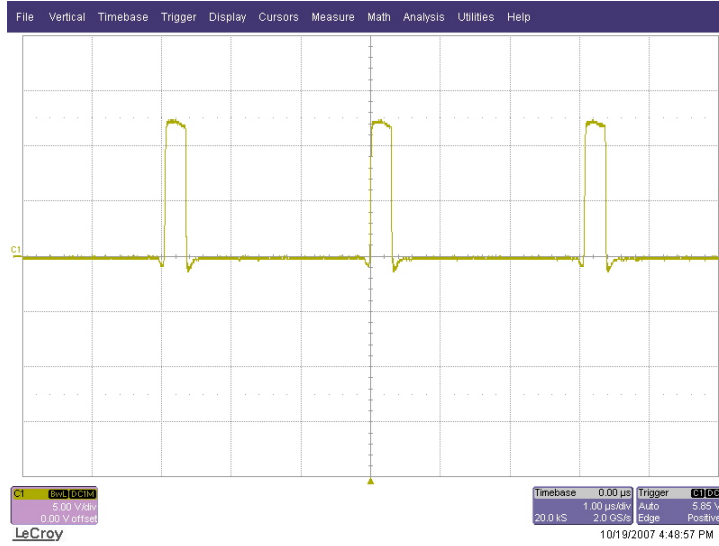
## 6 Load Regulation

The load regulation is shown in the figure below.



## 7 Switching Waveforms

The plot below shows the switching waveform. The input is 12V. The output is fully loaded. The time base is set to 1us/Division.



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DSP	<a href="http://dsp.ti.com">dsp.ti.com</a>	Computers and Peripherals	<a href="http://www.ti.com/computers">www.ti.com/computers</a>
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Interface	<a href="http://interface.ti.com">interface.ti.com</a>	Energy	<a href="http://www.ti.com/energy">www.ti.com/energy</a>
Logic	<a href="http://logic.ti.com">logic.ti.com</a>	Industrial	<a href="http://www.ti.com/industrial">www.ti.com/industrial</a>
Power Mgmt	<a href="http://power.ti.com">power.ti.com</a>	Medical	<a href="http://www.ti.com/medical">www.ti.com/medical</a>
Microcontrollers	<a href="http://microcontroller.ti.com">microcontroller.ti.com</a>	Security	<a href="http://www.ti.com/security">www.ti.com/security</a>
RFID	<a href="http://www.ti-rfid.com">www.ti-rfid.com</a>	Space, Avionics & Defense	<a href="http://www.ti.com/space-avionics-defense">www.ti.com/space-avionics-defense</a>
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