

Test Procedure for the NCP4060AGEVB Evaluation Board

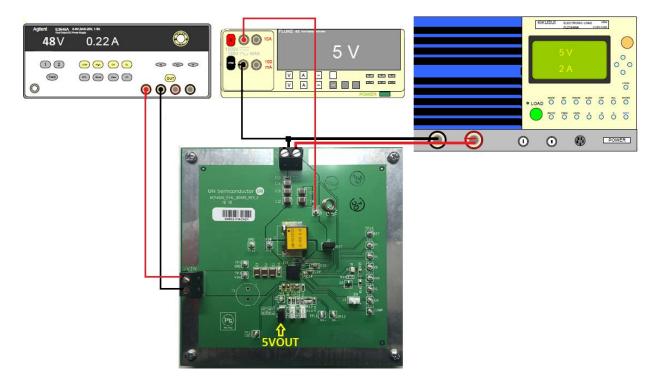


Figure 1: Test Setup

The Following steps describe the test procedure for the NCP4060A Board:

Required Equipment:

Current limited High Voltage DC Power Supply (e.g AGILENT 6645A) 1	рс
DC Volt-Meter able to measure up to 60V (e.g. KEITHLEY 2000) 2po	CS
DC Electronic Load	рс

Optional Equipment:

Note:

Place Amp-Meters in series with Power Supply and Electronic Load to measure the currents

Basic Test Procedure:

- 1. Connect the test setup shown in figure 1
- 2. Apply an input voltage, Vin = 48V at the VIN Terminals
- 3. Apply lout (Load) = 0A
- 4. Check Output Voltage by measuring Vout As shown in Figure 1
- 5. Vout can be set to 5, 12 and 24V (See Figure 2) in this setup Vout = 5V
- 6. Set lout = 2A
- 7. Double Check Vout = 5V
- 8. Probe Switch Node (See Figure 3) Make sure regulator is stable
- 9. Turn off Load
- 10. Turn Off VIN
- 11. End of Test

Selecting $V_{\mbox{\scriptsize OUT}}$ and Choosing an LDO input

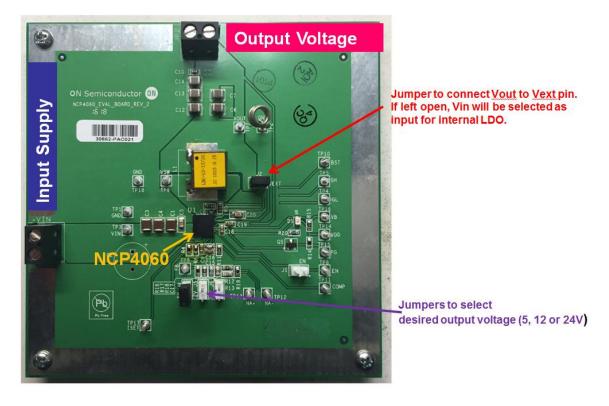


Figure 2: VEXT Jumper and VOUT Jumpers

If VEXT is connected to Vout the regulator's output voltage will be the input for the internal LDO as long as Vout is regulating at or above 7.5V, otherwise the part will switch to VIN as an input. If the VEXT jumper is left open, VIN will be selected as the input for the LDO.

Note: VCC and VIN are connected together on the EVB. (See Application Schematic) There are three jumpers to select the desired output voltage. The output voltage can be set to 5,12 or 24V (See figure 2)

LDO Circuit:

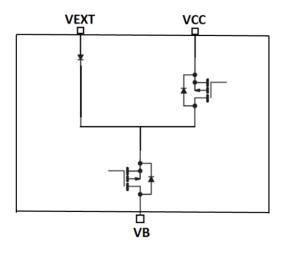


Figure 3: Simplified Circuit explaining the LDO input switch over

ENABLE EVENT

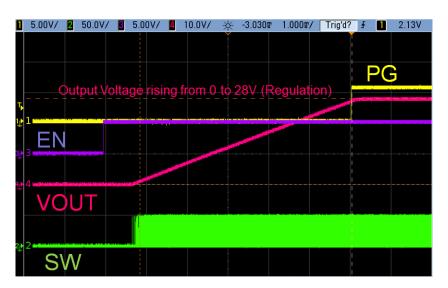


Figure 4: Enable Event