

Required Equipment

ON Semiconductor®

UN

2 x DC voltage source
1 x DC electronic load
2 x Multimeters



Test Procedure:

- 1. Connect the test setup as shown above.
- 2. Make sure the load is not enabled.
- 3. Apply an enable voltage $V_{EN}=0V$. Apply an input voltage, $V_{IN} = 13.2 V$. V_{OUT} should be 0V.
- 4. Apply an enable voltage $V_{EN}=3V$. Verify that the *output voltage is 3.3 V* +/-0.1 V.
- 5. Set up the load to 2.5A and enable it. Verify that the *output voltage is still 3.3 V* +/-0.1 V.
- 6. Change the input voltage to 39 V. Verify that the *output voltage is 0 V*.
- 7. Change the input voltage to 36 V. Verify that the *output voltage is 3.3 V* +/-0.1 V.
- 8. Change the input voltage to 3.8 V. Verify that the *output voltage is above 2.5 V*.
- 9. Change the input voltage to 3.0 V. Verify that the *output voltage is 0 V*.
- 10. Change the input voltage to 4.5 V. Verify that the *output voltage is 3.3 V* +/-0.1 V.
- 11. Apply an enable voltage $V_{EN}=0V$. V_{OUT} should be 0V.
- 12.Turn off the DC sources.