Test Procedure for the LM2596ADPBCKGEVB – LM2596 3A BUCK DEMO BD

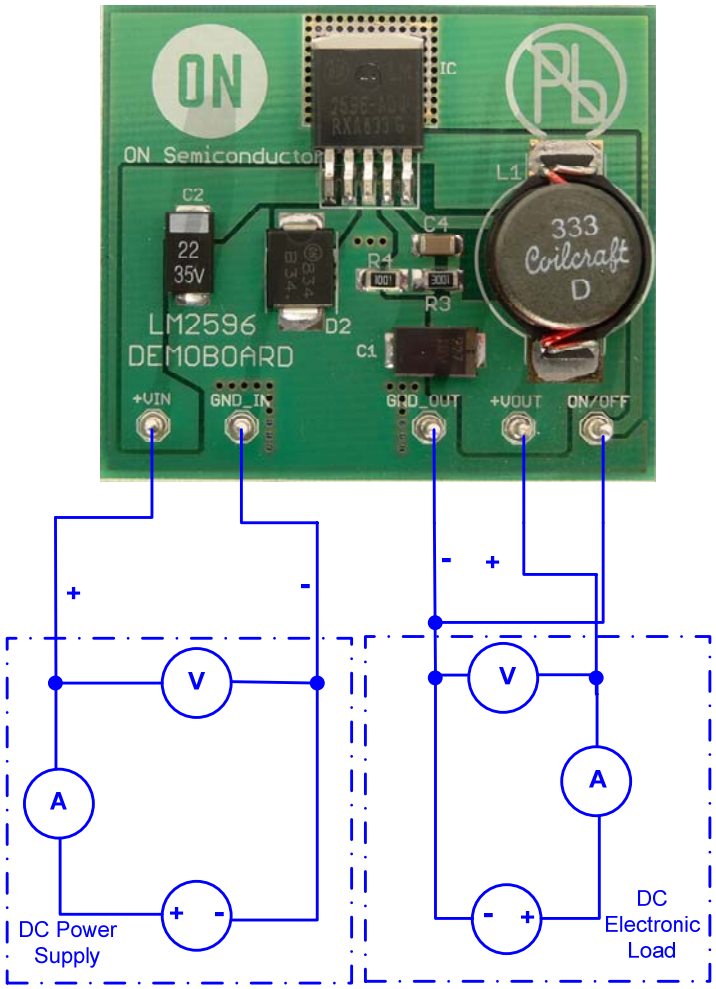


Figure 1. Test Setup

The following steps detail the test procedure for all these boards:

Required Equipment:

Current limited DC Power Supply (e.g. AGILENT 6653A) … 1pc
DC Volt-Meter able to measure up to 15 V DC (e.g. KEITHLEY 2000) … 2pcs
DC Amp-Meter able to measure up to 2 A DC (e.g. KEITHLEY 2000) … 2pcs
DC Electronic Load (e.g. AGILENT 6060B) … 1pcs

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Test Procedure:

1. Connect the test setup as shown in Figure 1.
2. Disable loads = 0 A.
3. Apply an input voltage, Vin = 12V DC.
4. Check, if V_{out} = 5 V DC
5. Enable loads up to 3 A.
6. Check, if V_{out} = 5 V DC
7. If yes, test passed successfully.
8. Power down the load.
9. Power down Vin.
10. End of test.