ON Semiconductor



Test Procedure for the NCP57152MNADGEVB Evaluation Board

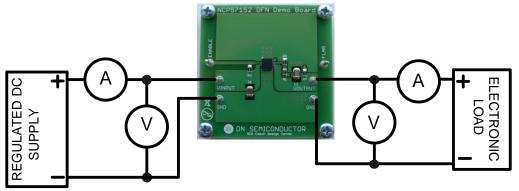


Figure 1: Output Voltage Test Setup

Test Procedure

1 Vout Test

- 1.1 Connect the test setup as shown in Figure 1.
- 1.2 Apply an input voltage, Vin = 2.5 V dc
- 1,3 Apply lout = 10 mA load.
- 1.4 Check that Vout is 1.5 V
- 1.5 Increase lout load to 1.5 A
- 1.6 Check that Vout is 1.5 V
- 1.7 Power down the load
- 1.8 Power down Vinput

2 Vflag Test

- 2.1 Connect the test setup as shown in Figure 2.
- 2,2 Apply an input voltage, Vin = 1.8 V dc MUR805G diode works like Output Voltage clamp. The Output voltage is out of regulation and the NCP57152 operates in overload mode.
- 2.3 Check that Vout is roughly 0.7V and Vflag is less than 0.2 V
- 2.4 Power down Vinput

In Overload mode the power dissipated in NCP57152 LDO and MUR805G diode is high and the devices can get very hot in a short time. That is why run this test as fast as possible.

2.5 End of test

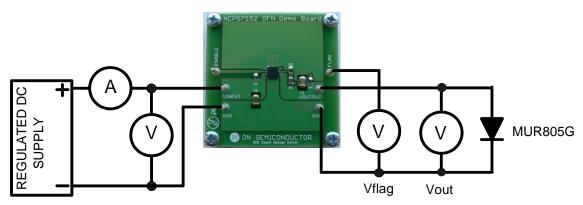


Figure 2: FLAG Voltage Test Setup