

Test Procedure for the NCP3065 High Brightness LED SEPIC Driver



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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) ... 1pcs
DC Volt-Meter able to measure up to 30V DC (e.g. KEITHLEY 2000) ... 2pcs
DC Amp-Meter able to measure up to 2A DC (e.g. KEITHLEY 2000) ... 2pcs
DC Electronic Load (e.g. AGILENT 6060B) ... 1pcs

Test Procedure:

1. Connect the test setup as shown in Figure 1.
2. Apply an input voltage, $U_{in} = 12V_{dc}$
3. Apply $I_{out}(\text{load}) = 0A$
4. Check that U_{out} is approximately 26Vdc
5. Set $V_{out\text{-load}}$ (load in voltage mode) to: 7 to 23Vdc
6. Check that I_{out} is approximately 350mA or 700mA
7. Power down the load
8. Power down U_{in}
9. End of test