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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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ON Semiconductor

## Test Procedure for the CS5171/CS5173 Evaluation Board

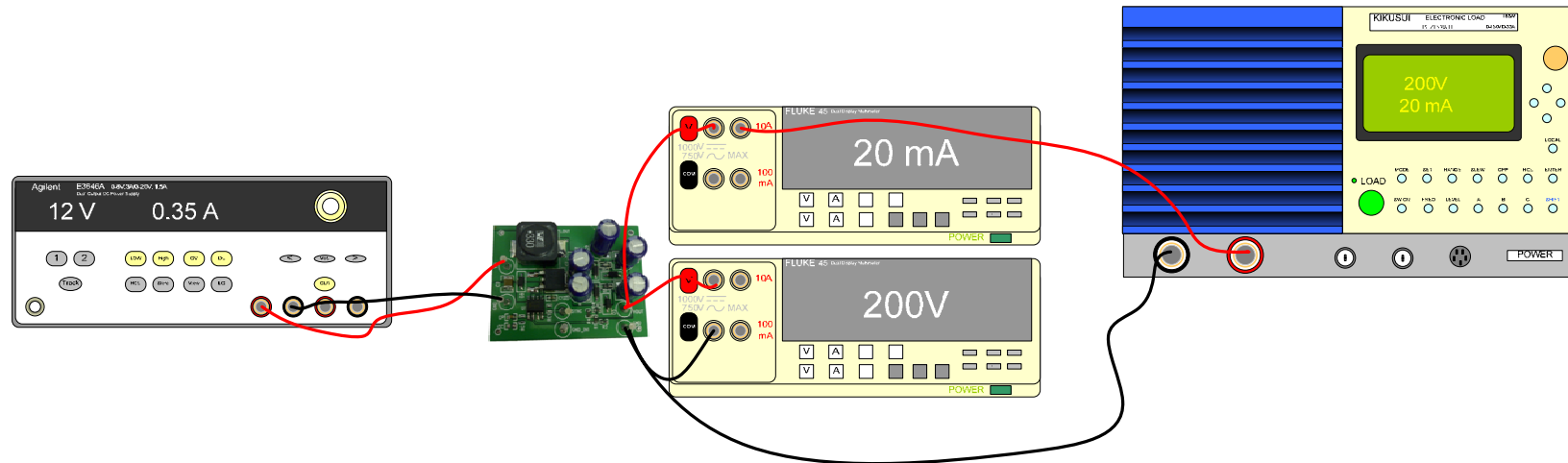


Figure 1: Test Setup

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

### Suggested Equipment:

- Current limited DC Power Supply (e.g. AGILENT 6645A) ..... 1pc
- DC Volt-Meter able to measure up to 60 V DC (e.g. KEITHLEY 2000) ..... 2pcs
- DC Amp-Meter able to measure up to 2 A DC (e.g. KEITHLEY 2000) .....1pc
- DC Amp-Meter able to measure up to 5 A DC (e.g. FLUKE 89 IV)..... 1pc
- DC Electronic Load (e.g. KIKUSUI PLZ153WH) ..... 1pc

**Test Procedure:**

1. Connect the test setup as shown in Figure 1.
2. Apply an input voltage,  $V_{IN} = 12\text{ Vdc}$
3. Apply  $I_{OUT}(\text{load}) = 0\text{ A}$
4. Check that  $V_{OUT} = 200\text{V} \pm 5\% \text{Vdc}$
5. Set  $I_{OUT}$  to desired level 0 mA- 20 mA and measure voltage and current. The efficiency should be similar to that shown in Figure 3 and 4.
6. Check that  $V_{OUT} = 200\text{V} \pm 5\% \text{Vdc}$  under desired operating condition
7. Turn off the load
8. Turn off  $V_{IN}$
9. End of the test

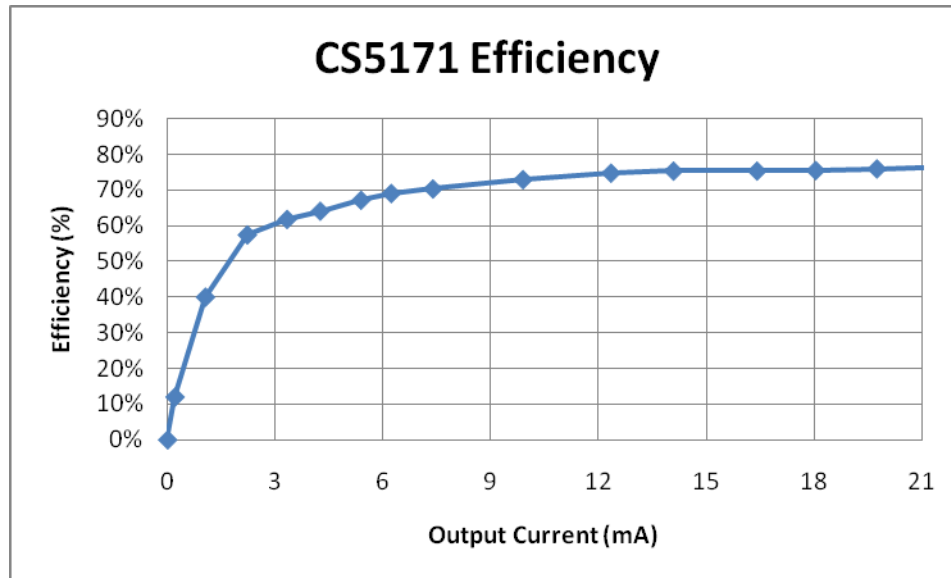


Figure 2: CS5171 12V to 200V Efficiency

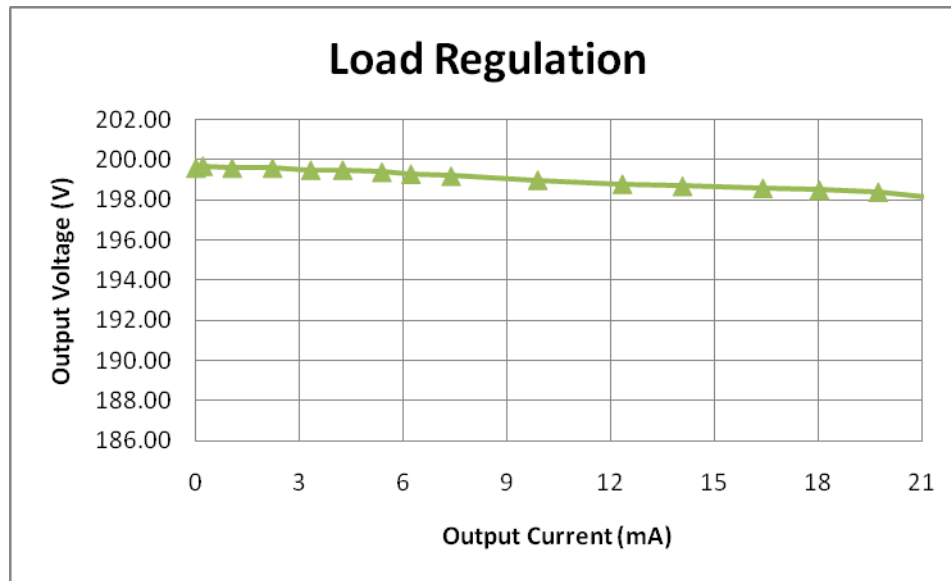


Figure 3: CS5171 12V to 200V Load Regulation