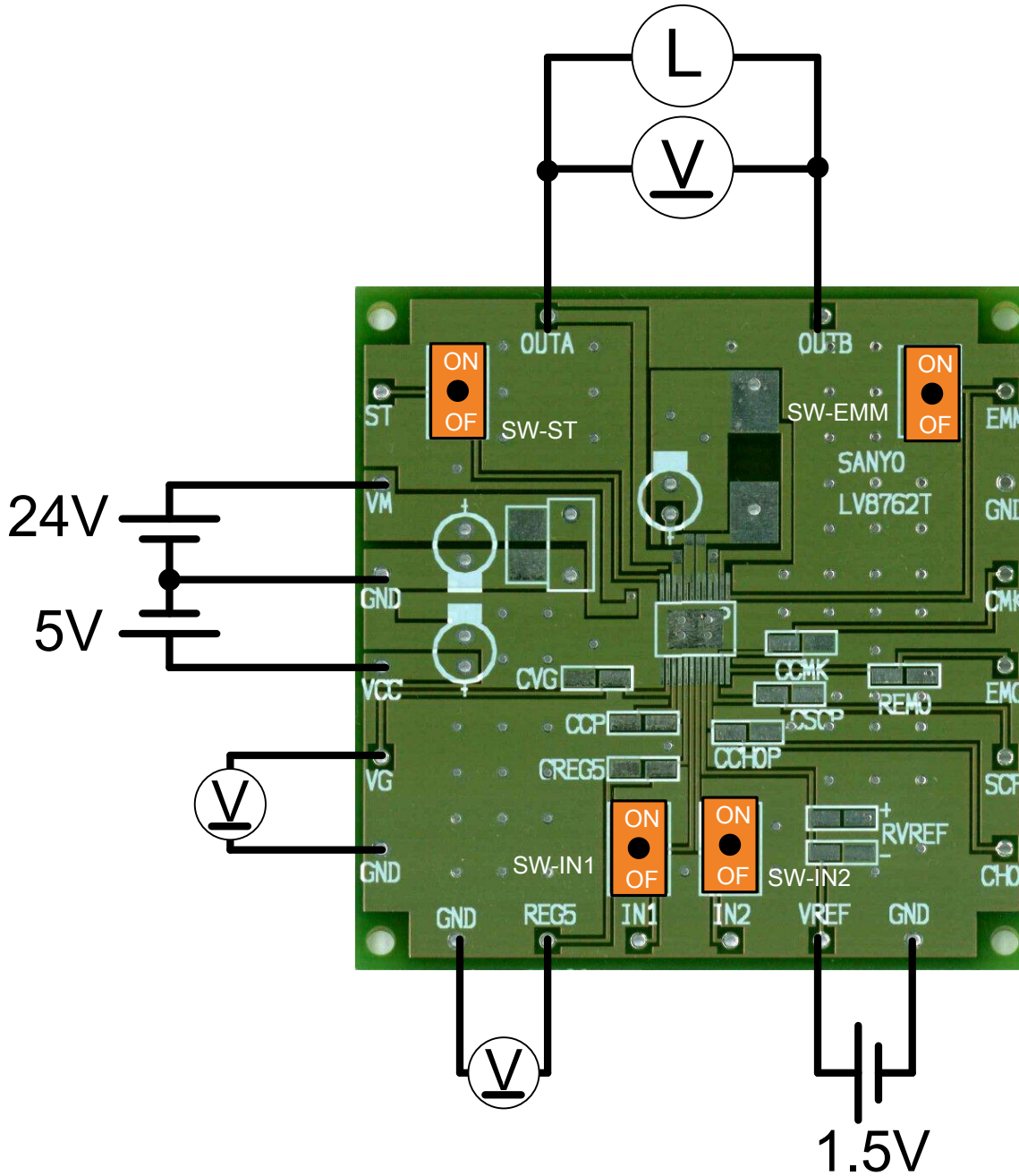


# Test Procedure for the LV8762TEVB Evaluation Board



**SANYO Semiconductors**

An ON Semiconductor Company



**Table 1: Required Equipment**

| <b>Equipment</b> | <b>Product name</b> | <b>Qty</b> |
|------------------|---------------------|------------|
| Power supply     | KIKUSUI PMC18-3A    | 3          |
| Multimeter       | ADVANTEST R6441D    | 3          |
| Electronic Load  | KIKUSUI PLZ164W     | 1          |
| Evaluation Board | LV8762TEVB          | 1          |

**Test Procedure:**

1. Connect the test setup as shown above.
2. Turn off the all switches.
3. Apply an input voltage,  $V_M=24V$  across  $V_M$  and GND.
4. Apply an input voltage,  $V_{CC}=5V$  across  $V_{CC}$  and GND.
5. Apply an input voltage,  $V_{REF}=1.5V$  across  $V_{REF}$  and GND.
6. Turn on the switch 'ST' as impress 5V to ST-pin.
7. Check the voltage  $V_{REG5}$ . It should be about 5V.
8. Check the voltage  $V_G$ . It should be about 28.7V.
9. Turn on the switch 'IN1' as impress 5V to the IN1-pin,  
And turn off the switch 'IN2' as impress 0V to the IN2-pin.
10. Check the voltage between OUTA and OUTB. It should be about 24V.
11. Turn on the switch 'IN2' as impress 5V to the IN2-pin,  
And turn off the switch 'IN1' as impress 0V to the IN1-pin.
12. Check the voltage between OUTA and OUTB. It should be about -24V.
13. Turn off the switch 'IN1' and 'IN2'.
14. Apply 0.5A loading from the electronic load and Turn on the switch 'IN1'.
15. Check the current OUTA to OUTB. It should be about 0.5A.
16. Apply 1.0A loading from the electronic load.
17. Check the current OUTA to OUTB. It should be about 0.5A.  
(Q: Why is it not 1.0A? A: Because current limiting is working.)
18. Turn Off the All switches.
19. Power down  $V_M$  and  $V_{CC}$ .
20. End of test.