ON Semiconductor

Test Procedure for the CAT3649AGEVB Evaluation Board

1. Set the switch K1 in "OFF" position.
2. Verify that shunts are installed on jumpers J1 to J6 in the top position.
3. Verify that a shunt is installed on jumper J7.
4. Set a jumper shunt on the header-pin connector J11 in (1,2) position.
5. Set a jumper shunt on the header-pin connector J8 in (2,3) position.
6. Set a jumper shunt on the header-pin connector J9 in (2,3) position.
7. Set a jumper shunt on the header-pin connector J10 in (1,2) position.
8. Connect the "CAT3649EVAL" board to the PC through a USB serial interface cable.
9. Run the program "CAT3649 EVAL.exe". On the PC's screen appears the CAT3649EVAL GUI. The "CAT3649 EVAL" board will be powered up.
10. On the GUI, move the potentiometer cursor. On the board, the light intensity of the LEDs will change proportionally.
11. On the GUI, select the "Ambient Light Sensor" frame and then, the "Medium Gain" button. On the board, the light intensity of the LEDs will change proportionally with the ambient light.
12. On the GUI, unselect the "Ambient Light Sensor" frame.
13. On the GUI, select the CAT3649 ADIM and then, "EN/DIS" button. On the board the red LED and the white LEDs will light.
14. On the GUI, select the "DIM" button. On the board, the LEDs light intensity will decrease. At each selection of the "DIM" button, the LEDs light intensity will decrease.
15. On the GUI, select the "EN/DIS" button. On the board the red LED and the white LEDs will not light.
16. Push the "EXIT" button on the GUI.

17. Disconnect the USB interface cable from PC and "CAT3649 EVAL" board.
18. Insert a 9V battery in the battery holder.
19. Set a jumper shunt on the header-pin connector J11 in (2,3) position.
20. On the board, set the switch K1 in "ON" position.
21. On the board, push the "EN/DIS" button. The red LED and the white LEDs will   light.
22. On the board, push the "DIM" button. the LEDs light intensity will decrease. At each selection of the "DIM" button, the LEDs light intensity will decrease.
23. On the board, push the "EN/DIS" button. The red LED and the white LEDs will   not light.
24. On the board, set the switch K1 in "OFF" position.