

## Test Procedure for the LV56851UV Evaluation Board

### TEST Procedure

Prepare “DC POWER SUPPLY”, capability is 40V or more and 4A or more. And “Digital MULTIMETER”, and “ELECTRIC DC LOAD”

#### 1. Initial Setting.

Connect VCC1/VCC2 cable, GND cable and I2C-bus communication module. Regarding I2C-bus communication, refer to datasheet.

#### 2. Measurement.

Bias VCC1/VCC2 voltage. Regarding bias voltage range, refer to datasheet. Next step send the I2C command. Then measure each AMP, ILM, CD AUDIO, SYS, VDD of voltage and Iq at no load. And then Refer to below the descriptive text others characteristic of measurement.

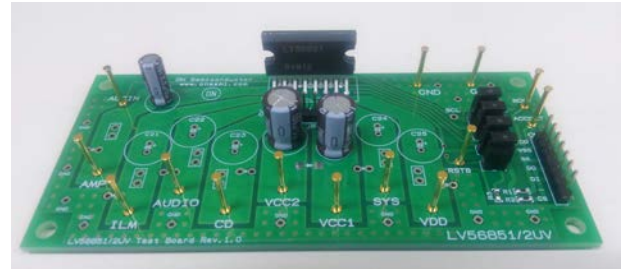


Fig1

#### Line regulation

Line regulation is defined as the maximum change in output voltage as the input voltage is varied through the specified range. It is measured by changing the input voltage and measuring the minimum/maximum voltage of the output. Line regulation is defined as the difference between maximum and minimum voltage.

#### Load regulation

Load regulation is defined as the maximum change in output voltage as the load current is varied through the specified range. It is measured by changing the load current and measuring the minimum/maximum voltage of the output. Load regulation is defined as the difference between maximum and minimum voltage.

#### Dropout voltage

Dropout voltage is defined as the minimum input-to-output differential voltage at the specified load current required by the regulator to keep the output voltage in regulation. It is measured by reducing input voltage until the output voltage drops below the nominal value.

#### Ripple rejection

Ripple rejection is defined as the ratio of input ripple amplitude versus that of output.

**Note: Please refer to datasheet table for electrical characteristics acceptable tolerances.**

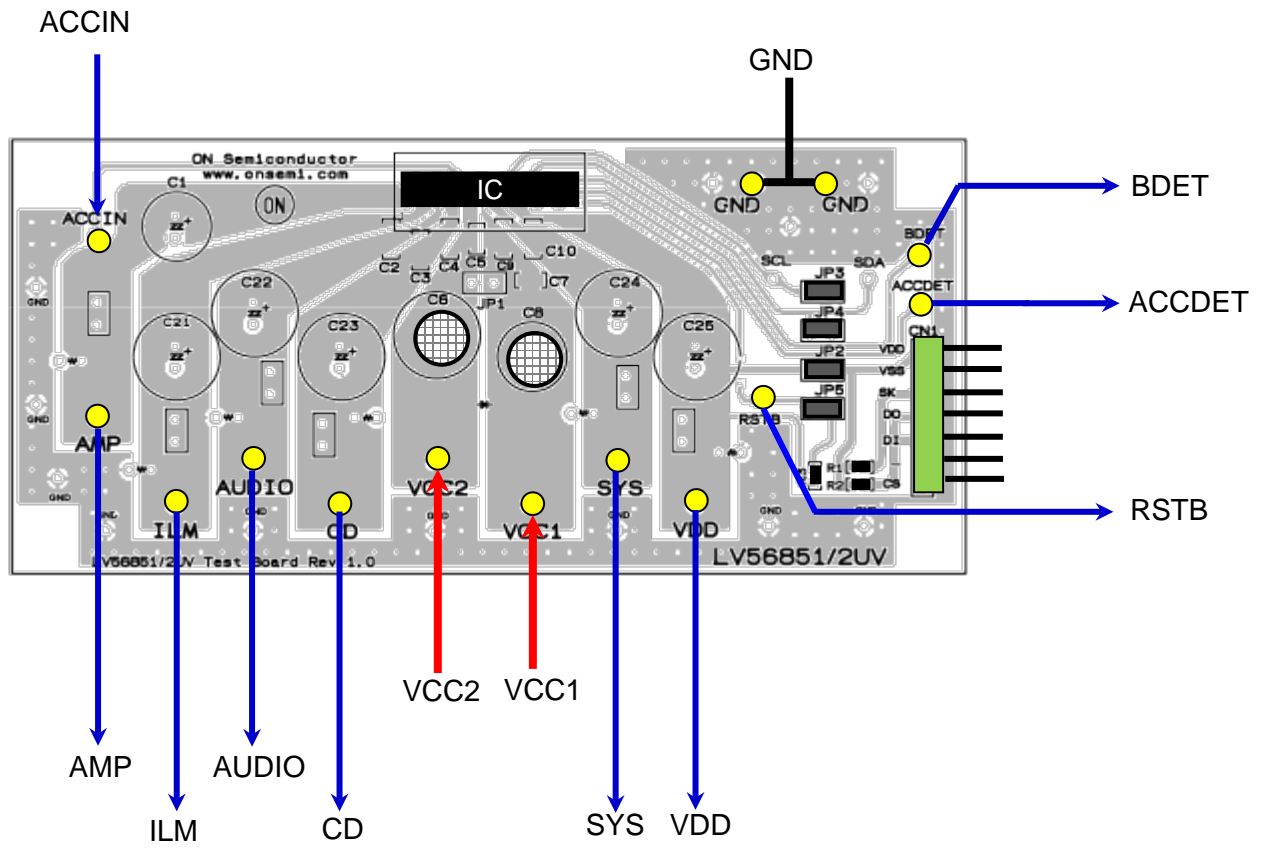


Fig2