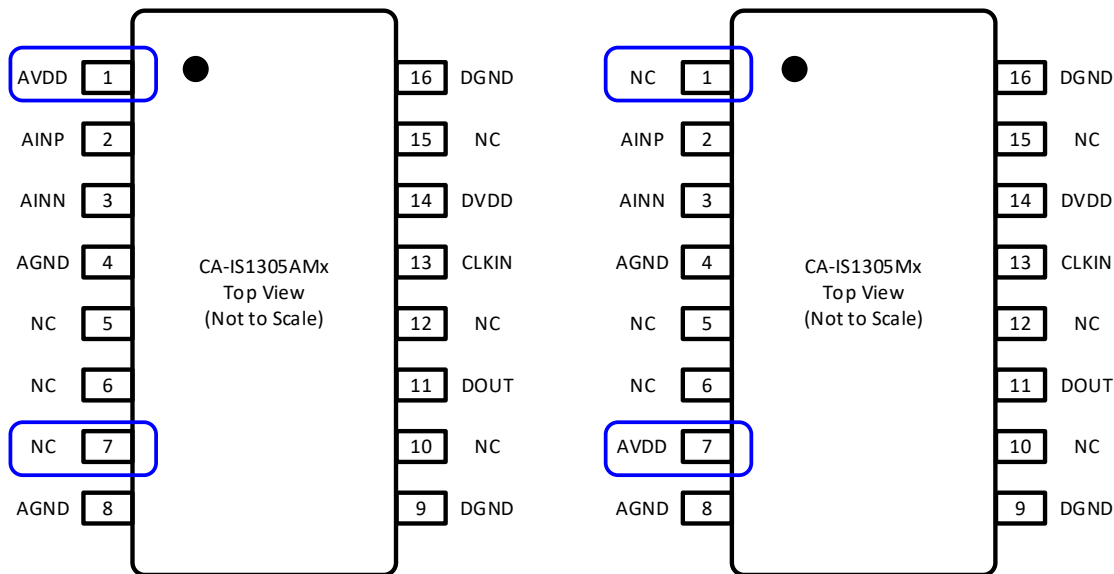


2 Differential Analysis of the CA-IS1305x Series

Pin function difference:



Tab. 1 Comparison of Pin Functions between CA-IS1305AMx and CA-IS1305Mx

Pin No.	CA-IS1305AMx	CA-IS1305Mx
1	AVDD, high side analog power supply, 4.5V to 5.5V	NC, this pin is connected to internal AGND. Please suspend or connect to AGND. Do not connect to power supply.
2	AINP, in-phase analog input	AINP, in-phase analog input
3	AINN, out-phase analog input	AINN, out-phase analog input
4,8	AGND, high-side analog ground	AGND, high-side analog ground
5,6,10,12,15	NC, there is no internal connection. It can be suspended, grounded and connected to power supply.	NC, there is no internal connection. It can be suspended, grounded and connected to power supply.
7	NC, there is no internal connection. It can be suspended, grounded and connected to power supply.	AVDD, high-side analog power supply, 4.5V to 5.5V
9,16	DGND, low-side digital ground	DGND, low-side digital ground
11	DOUT, modulator data output	DOUT, modulator data output
13	CLKIN, modulator clock input, internal 1.5MΩ pull-down resistance, support 5MHz to 21MHz	CLKIN, modulator clock input, internal 1.5MΩ pull-down resistance, support 5MHz to 21MHz
14	DVDD, low-side digital power supply, 3V to 5.5V	DVDD, low-side digital power supply, 3V to 5.5V

Function parameter difference:

Order Model	Rated Input Range	Differential Input Resistor	Isolation Level	Digital Output Coding Mode
CA-IS1305M05W	±50 mV	4.9 kΩ	5000 V _{RMS}	Non-coding CMOS logic
CA-IS1305M25W	±250 mV	22 kΩ	5000 V _{RMS}	Non-coding CMOS logic
CA-IS1305AM25W	±250 mV	22 kΩ	5000 V _{RMS}	Non-coding CMOS logic

3 Product Application Information

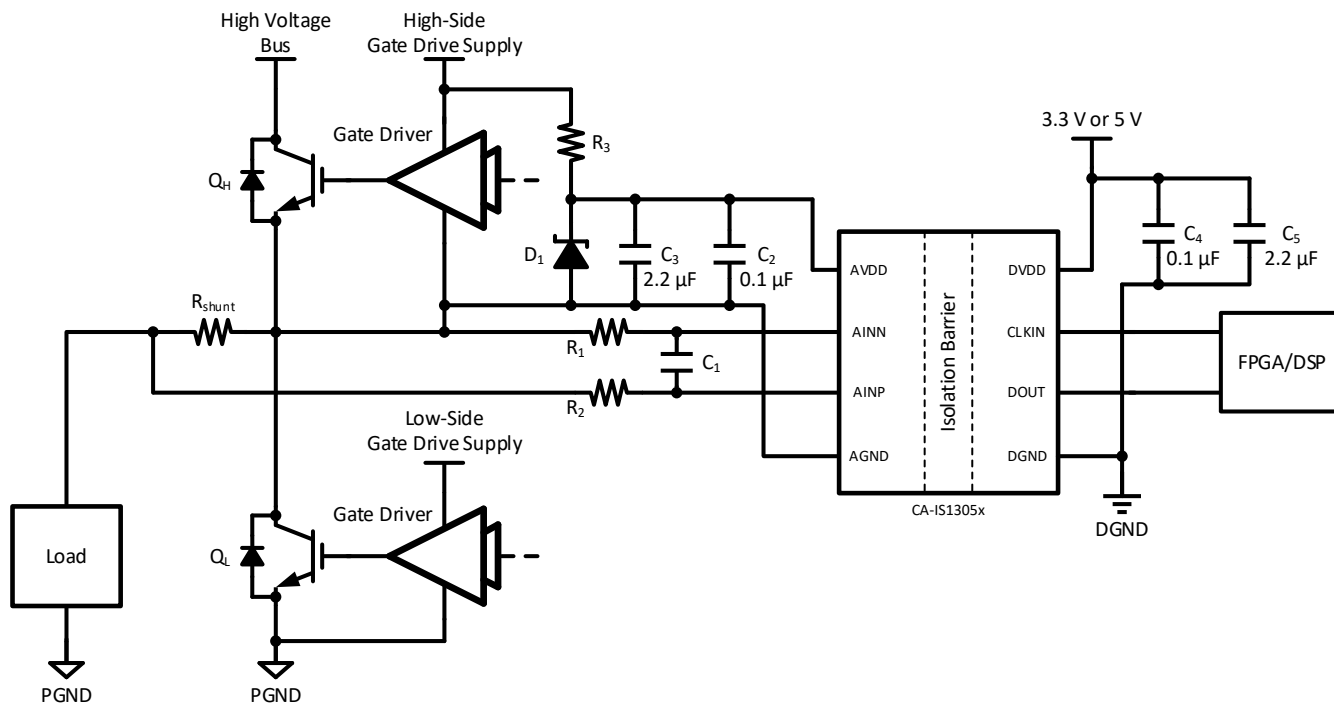


Fig. 2 Typical Application of Current Detection

4 Version Information

Version	Date	State Description
Ver1.0	July.2021	Initial version

5 Important Statement

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