

SLG59H1343C-EVB

High Voltage GreenFET Evaluation Board #8

Description

This evaluation board provides full range of evaluation features for SLG59H1343C load switch.

Specifications

The High Voltage GreenFET Evaluation Board #8 is working with the following operating conditions:

- V_{IN} Voltage – 2.7 V - 5.5 V
- Load Current – up to 1.5 A

Features

- Screw Terminals for VIN, VOUT, GND
- Pin headers for VIN, VOUT sense probe connection
- Pin headers for logic signals
- Pin headers for RSET ARRAY
- Pin header for ON configuration

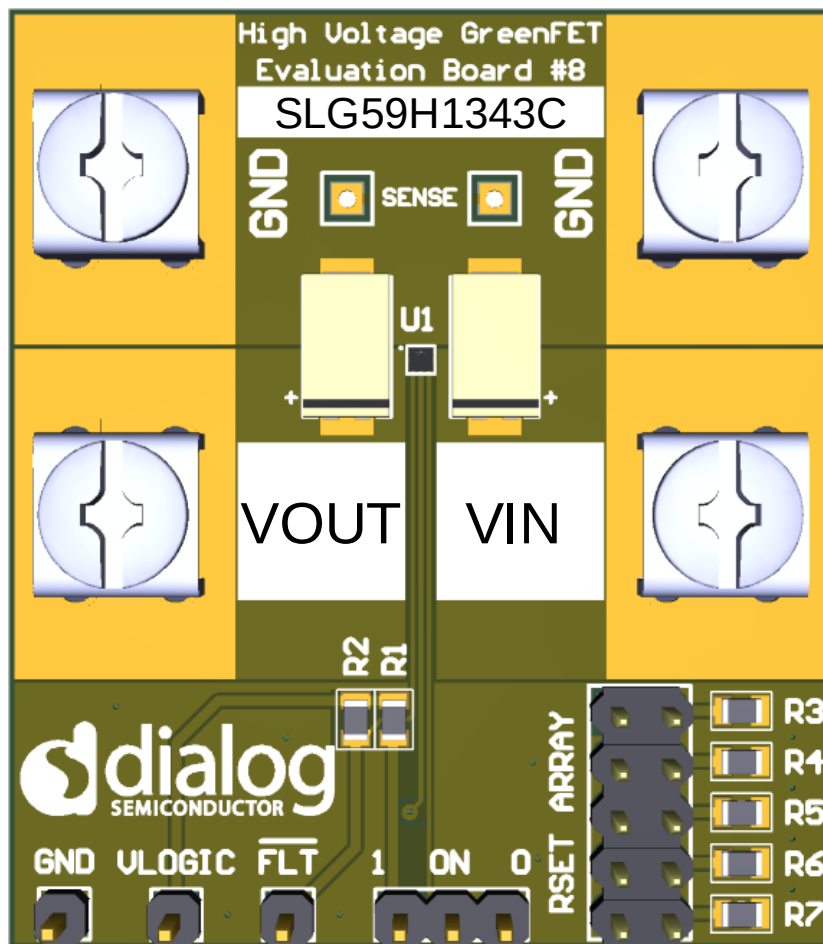


Figure 1. High Voltage GreenFET Evaluation Board #8

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1. Functional Description

This Evaluation Board provides full evaluation capabilities for the SLG59H1343C load switch. It has all the necessary screw terminals to connect input voltage, output load, connectors to measure main parameters and configure input signals.

The main components and their basic functions are shown in [Figure 2](#).

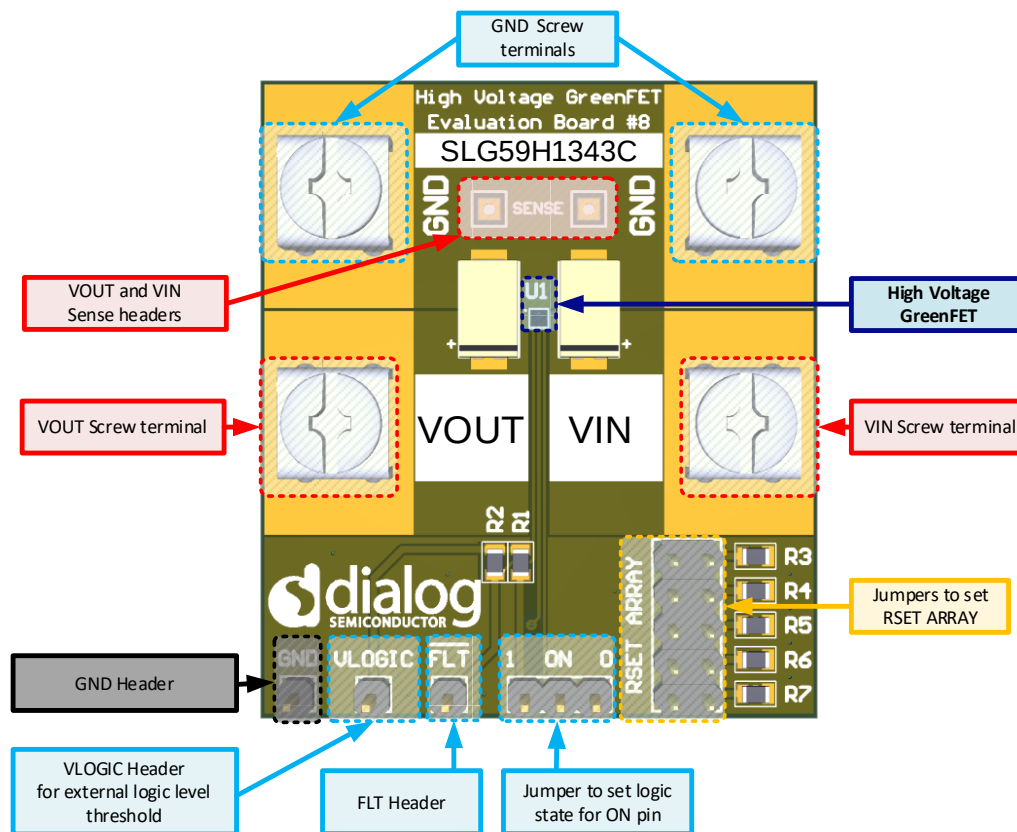


Figure 2. High Voltage GreenFET Evaluation Board #8 Main Blocks Description

2. Evaluation Board Features

2.1 Screw Terminals

Screw Terminals are used for connecting VIN, GND, and VOUT to power supply and load:

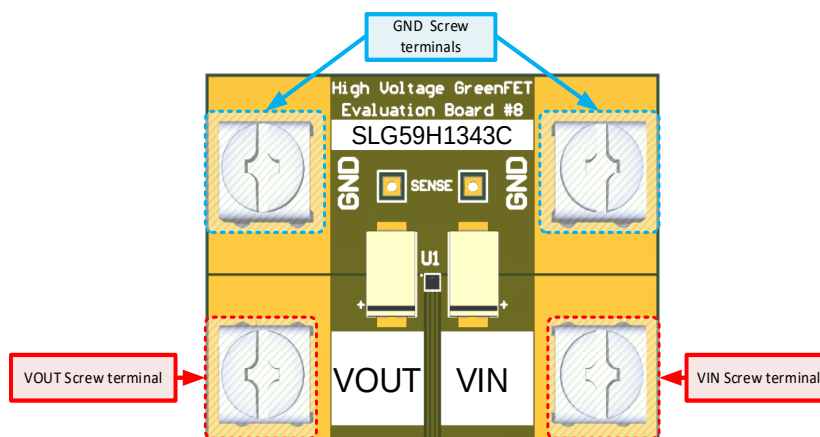


Figure 3. Screw Terminals

Screw terminal dimensions are shown in Figure 4.

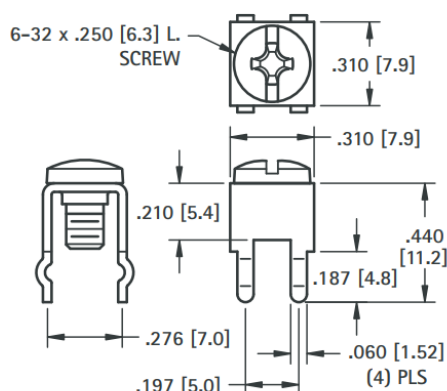


Figure 4. Screw Terminal Dimensions

2.2 Setting Output Current Limit with R_{SET}

HV GreenFET Evaluation Board #8 has a pin header array for setting five different R_{SET} values.

The R_{SET} resistors can be chosen by using jumpers:

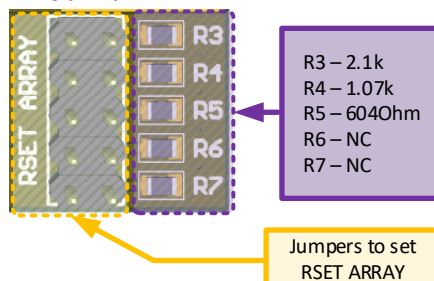


Figure 5. Pin Headers for RSET Array

2.3 External VLOGIC

VLOGIC signal should be powered from an external source. This voltage can be applied as V_{IH} for ON signal and pull-up for FLT signal.

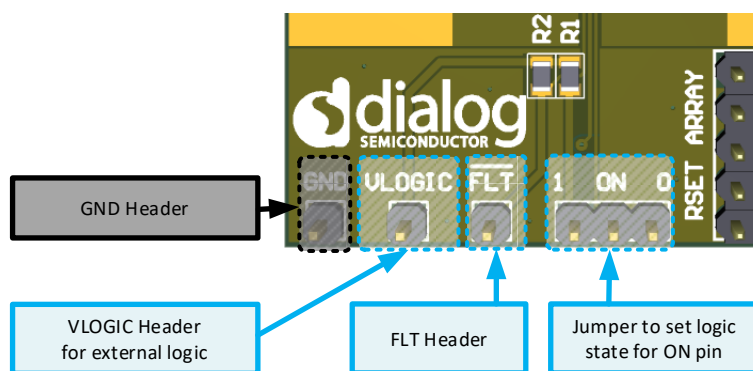


Figure 6. External VLOGIC

2.4 4-Wire (Kelvin) Connection for $R_{DS(on)}$ Measurements

Evaluation Board supports $R_{DS(on)}$ measurements by using 4-wire Kelvin connection. The connection scheme and Test Points (TP) location on PCB are shown on Figure 7 and Figure 8. Please note that TPs cannot handle high current and are dedicated only for $R_{DS(on)}$ measurements.

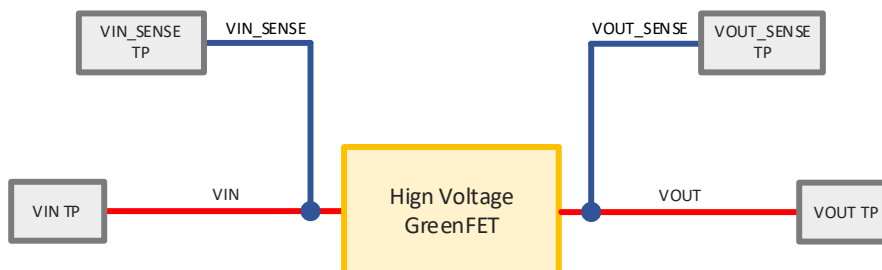
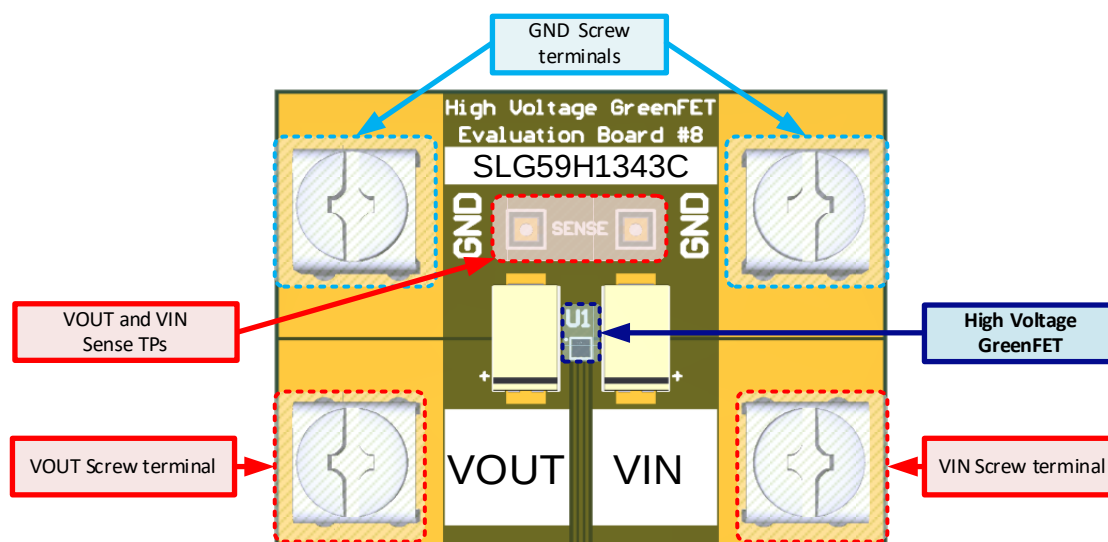
Figure 7. Block Diagram for 4-Wire Kelvin $R_{DS(on)}$ Measurements

Figure 8. Location of 4-Wire Kelvin Sense TPs

5. Ordering Information

Part Number	Description
SLG59H1343C-EVB	High Voltage GreenFET Evaluation Board #8

6. Revision History

Revision	Date	Description
1.00	May 12, 2025	Initial release