

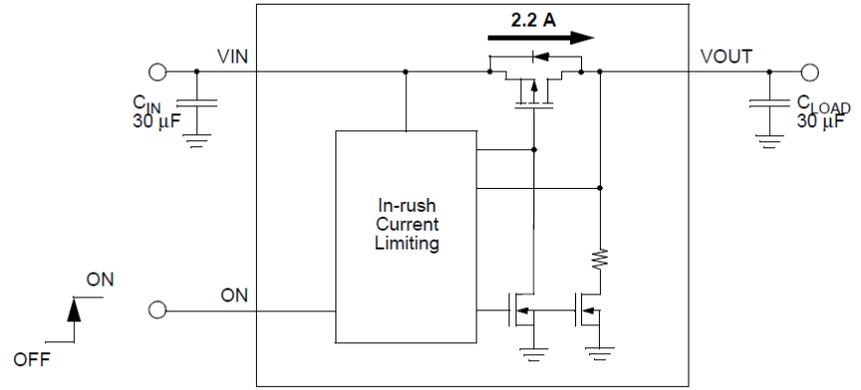
**Figure 4. SLG59M1736C Connection Circuit**

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**Description**

The SLG59M1736C is a 33 mΩ, ~ 2.2 A single-channel load switch that is able to switch 2.5 V to 5.5 V power rails. The product is packaged in an ultra-small 0.8 x 0.8 mm package.

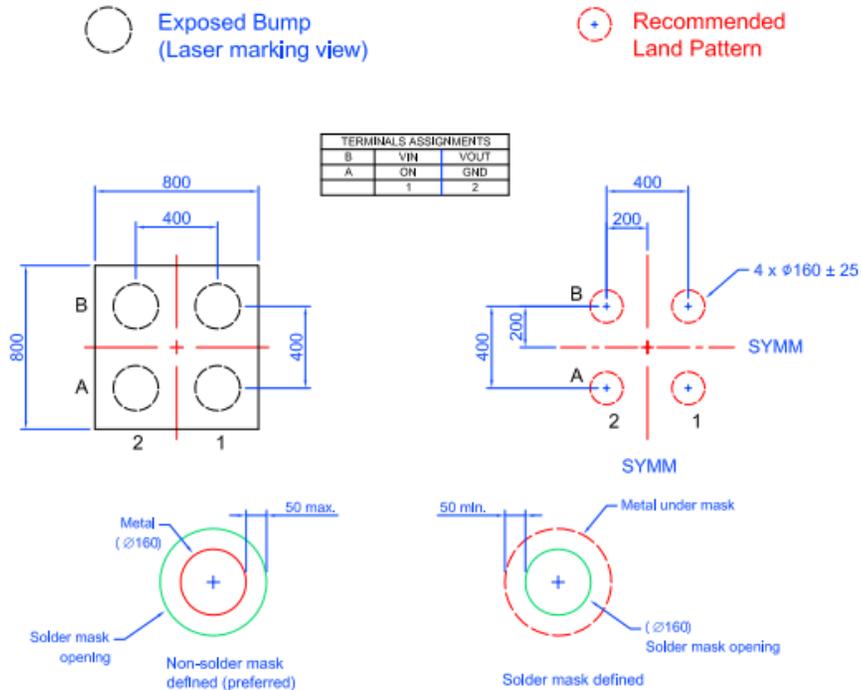


**Figure 1: SLG59M1736C Block Diagram**

This layout guide provides some important information about the PCB layout of SLG59M1736C applications.

### SILEGO WLCSP 0.8x0.8-4L PKG

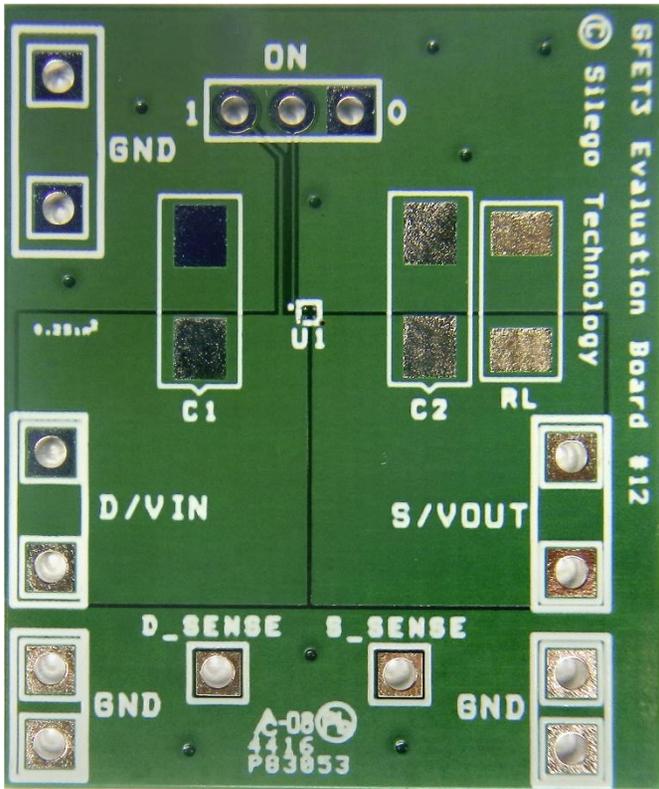
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**Figure 2. SLG59M1736C Package Dimensions and Recommended Land Pattern**

## 2. Power and Ground Planes

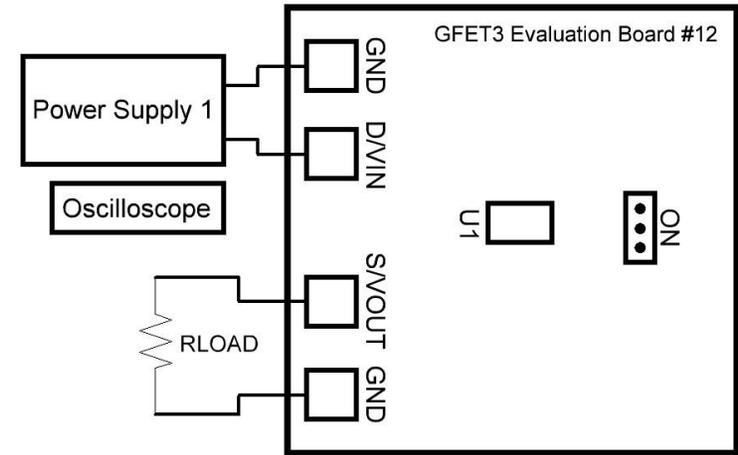
- 2.1. The trace length from the control IC to the ON pin (PIN1) should be as short as possible and must avoid crossing this trace with power rails.
- 2.2. The D/VIN and S/VOUT pins carry significant current. Please note how the D/VIN and S/VOUT pads are placed directly on the power planes in Figure 3, which minimizes the  $RDS_{ON}$  associated with long, narrow traces. The D/VIN, S/VOUT and GND pins dissipate most of the heat generated during high-load current condition. The layout shown in Figure 3 is illustrating a proper solution for heat to transfer as efficiently as possible out of the device.
- 2.3. The GND pin (A2) should be connected to GND.
- 2.4. 2 oz. copper is recommended for higher currents.



**Figure 3. SLG59M1736C Evaluation Test Board**

Note: Evaluation board has D\_Sense and S\_Sense pads. Please use them only for RDS(ON) evaluation.

### 3. Basic Test Setup and Connections



**Figure 5. Typical connections for GFET3 Evaluation**

#### 3.1 EVB Configuration

1. Connect oscilloscope probes to D/VIN, S/VOUT, ON, etc.
2. Turn ON Power Supply and set desirable  $V_{IN}$  in range of 2.5 to 5.5 V.
3. Switch ON to High or Low to evaluate GFET3 operation.

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