



# GreenFET3 SLG59M1466V

Layout Guide

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## **Description**

The SLG59M1466V is a 40 m $\Omega$ , ~ 1 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 1.0 x 1.0 mm package.

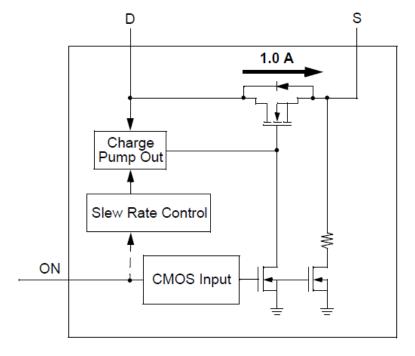


Figure 1: SLG59M1466V Block Diagram

This layout guide provides some important information about the PCB layout of SLG59M1466V applications.

### SILEGO STDFN 1.0x1.0-4L PKG

Unit: um

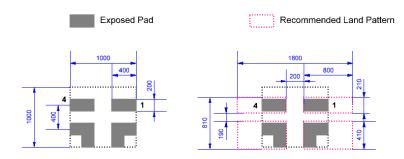


Figure 2. SLG59M1466V Package Dimensions and Recommended Land Pattern

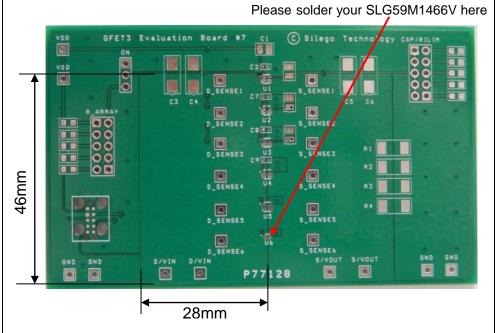


Figure 3. SLG59M1466V Evaluation Test Board

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

#### 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 (PIN4) should be connected to GND.
- 2.4. 2 oz. copper is recommended for higher currents.