



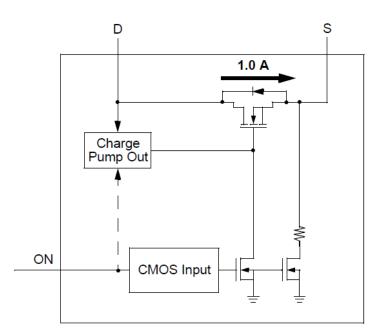
GreenFET3 SLG59M1551V Layout Guide

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Description

The SLG59M1551V is a 18.5 m Ω , ~ 1 A singlechannel load switch that is able to switch 1.0 V to 1.9 V power rails. The product is packaged in an ultra-small 1.0 x 1.0 mm package.





This layout guide provides some important information about the PCB layout of SLG59M1551V applications.

SILEGO STDFN 1.0x1.0-4L PKG

Unit: um

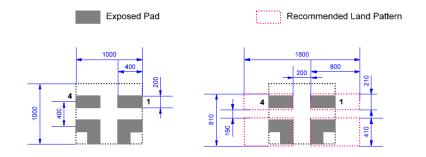
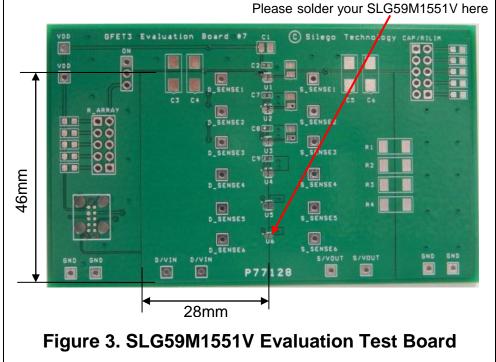


Figure 2. SLG59M1551V Package Dimensions and

Recommended Land Pattern



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.