

DESCRIPTION

The GLF71311T is an **ultra-thin**, ultra-efficiency, 2A rated, Load Switch with integrated slew rate control. The best in class efficiency makes it an ideal choice for use in IoT, mobile, and wearable electronics.

The GLF71311T features ultra-efficient I_QSmart™ technology that supports the lowest quiescent current (I_Q) and shutdown current (I_{SD}) in the industry. Low I_Q and I_{SD} solutions help designers to reduce parasitic leakage current, improve system efficiency, and increase battery lifetime.

The GLF71311T integrated slew rate control can also enhance system reliability by mitigating bus voltage swings during switching events. Where uncontrolled switches can generate high inrush currents that result in voltage droop and/or bus reset events, the GLF slew rate control specifically limits inrush currents during turn-on to minimize voltage droop.

GLF71311T Load Switch devices support an industry leading wide input voltage range and helps to improve operating life and system robustness. Furthermore, one device can be used in multiple voltage rail applications which helps to simplify inventory management and reduce operating cost.

GLF71311T Load Switch device is small utilizing a wafer level chip scale package with 4 bumps in a 0.97mm x 0.97mm die size and a 0.5mm bump pitch. **GLF71311T is ultra-thin: 0.35mm Typ, 0.4mm Max.**

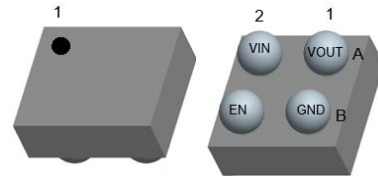
FEATURES

- Ultra-Low I_Q: 7nA Typ @ 5.5V_{IN}
- Ultra-Low I_{SD}: 28nA Typ @ 5.5V_{IN}
- Low R_{ON} : 31mΩ Typ @ 5.5V_{IN}
- I_{OUT} Max: 2A
- Wide Input Range: 1.1V to 5.5V
6V abs max
- Controlled Rise Time: 335us at 3.3V_{IN}
- Internal EN Pull-Down Resistor
- Integrated Output Discharge Switch
- Ultra-Small: 0.97mm x 0.97mm
- **Ultra-Thin: 0.35mm Typ., 0.4mm Max.**

APPLICATIONS

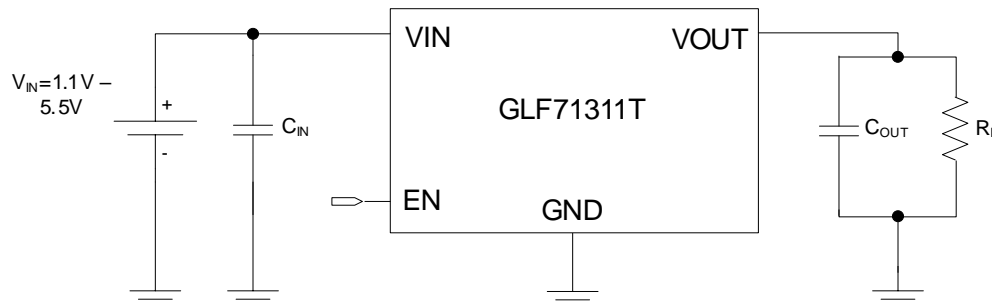
- Powered Credit Cards
- Thin Mobile Devices & Wearables
- Low Power Subsystems

PACKAGE



0.97mm x 0.97mm x **0.35mm** WLCSP

APPLICATION DIAGRAM



FUNCTIONAL BLOCK DIAGRAM

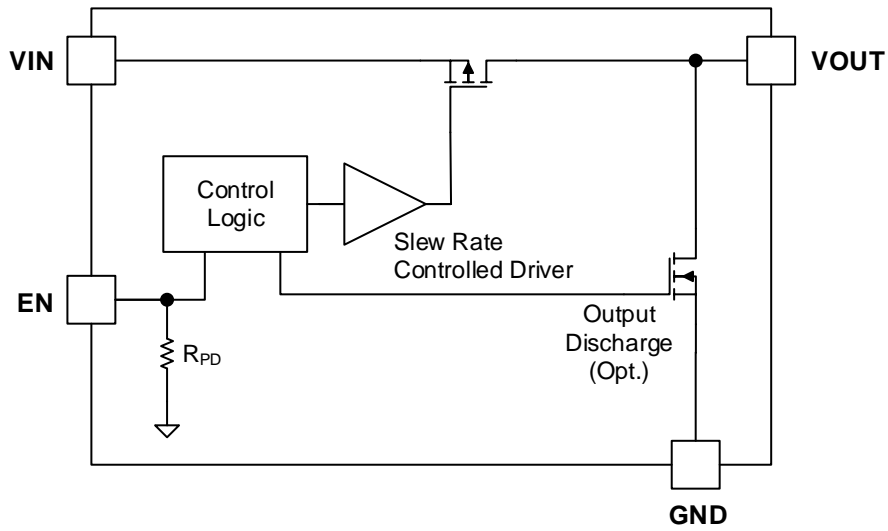
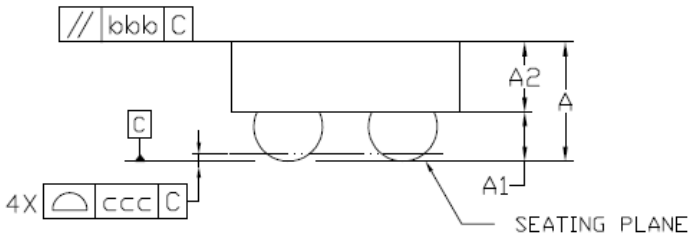
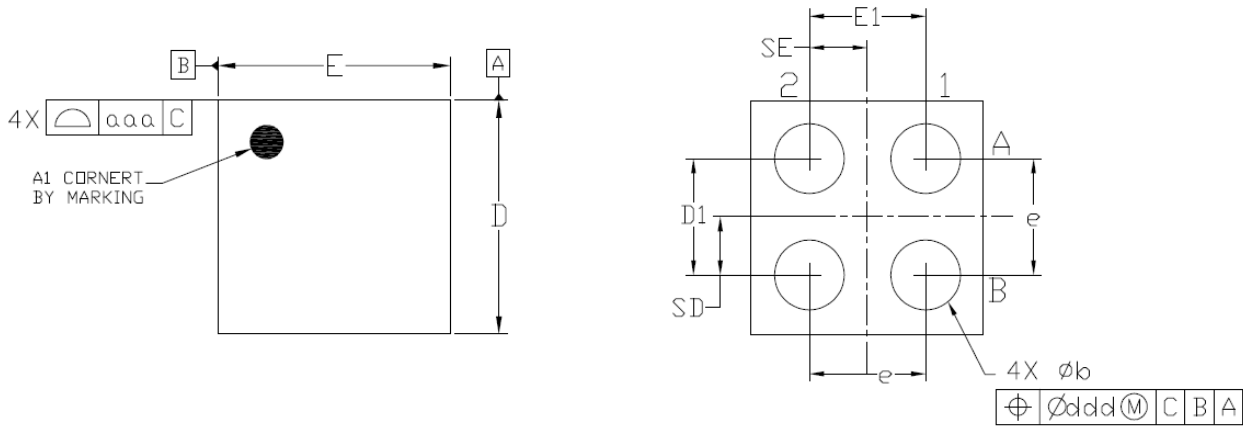


Figure 1. Functional Block Diagram

PACKAGE OUTLINE



Dimensional Ref.			
REF.	Min.	Nom.	Max.
A	0.300	0.350	0.400
A1	0.075	0.100	0.125
A2	0.225	0.250	0.275
D	0.955	0.970	0.985
E	0.955	0.970	0.985
D1	0.450	0.500	0.550
E1	0.450	0.500	0.550
b	0.200	0.250	0.300
e	0.500 BSC		
SD	0.250 BSC		
SE	0.250 BSC		
Tol. of Form&Position			
aaa	0.10		
bbb	0.10		
ccc	0.05		
ddd	0.05		

Notes

1. ALL DIMENSIONS ARE IN MILLIMETERS (ANGLES IN DEGREES).
2. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1994.