

#### DESCRIPTION

The GLF71315 is an ultra-efficiency, 2A rated, Load Switch with integrated slew rate control. The best in class efficiency makes it an ideal chose for use in IoT, mobile, and wearable electronics.

The GLF71315 features ultra-efficient I<sub>Q</sub>Smart™ technology that supports the lowest quiescent current (I<sub>Q</sub>) and shutdown current (I<sub>SD</sub>) in the industry. Low I<sub>Q</sub> and I<sub>SD</sub> solutions help designers to reduce parasitic leakage current, improve system efficiency, and increase battery lifetime.

The GLF71315 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.

GLF71315 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.

GLF71315 Load Switch device is small utilizing a chip scale package with 4 bumps in a 0.97mm x 0.97mm x0.55mm die size and a 0.5mm bump pitch.

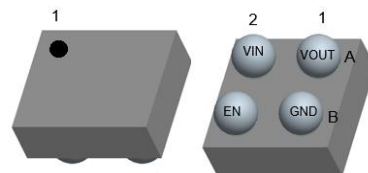
#### FEATURES

- Ultra-Low I<sub>Q</sub>: 7nA Typ @ 5.5V<sub>IN</sub>
- Ultra-Low I<sub>SD</sub>: 28nA Typ @ 5.5V<sub>IN</sub>
- Low R<sub>ON</sub> : 31mΩ Typ @ 5.5V<sub>IN</sub>
- I<sub>OUT</sub> Max: 2A
- Wide Input Range: 1.1V to 5.5V  
6V abs max
- Controlled Rise Time: 335us at 3.3V<sub>IN</sub>
- Internal EN Pull-Down Resistor
- Integrated Output Discharge Switch
- Wide Operating Temperature Range:  
-40°C ~ 105°C
- HBM: 6kV, CDM: 2kV
- Ultra-Small: 0.97mm x 0.97mm WLCSP

#### APPLICATIONS

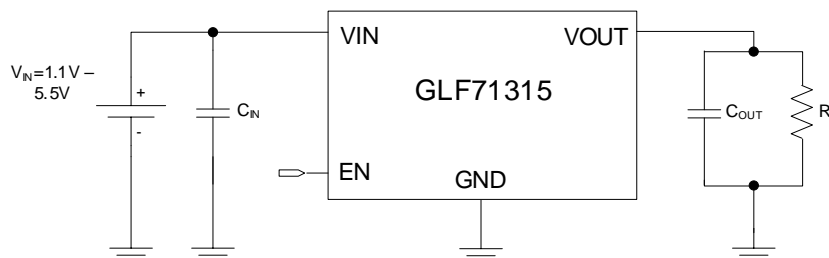
- Wearables
- Data Storage, SSD
- Mobile Devices
- Low Power Subsystems

#### PACKAGE

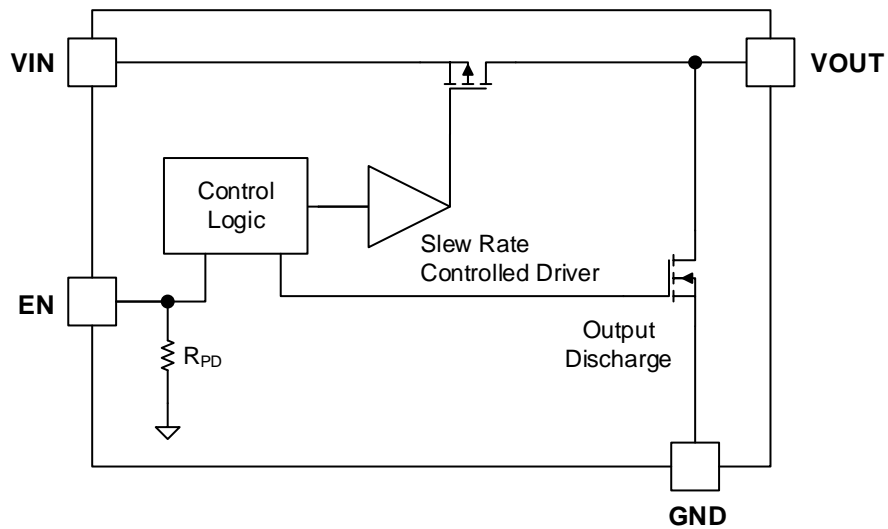


0.97mm x 0.97mm x 0.55mm WLCSP

#### APPLICATION DIAGRAM

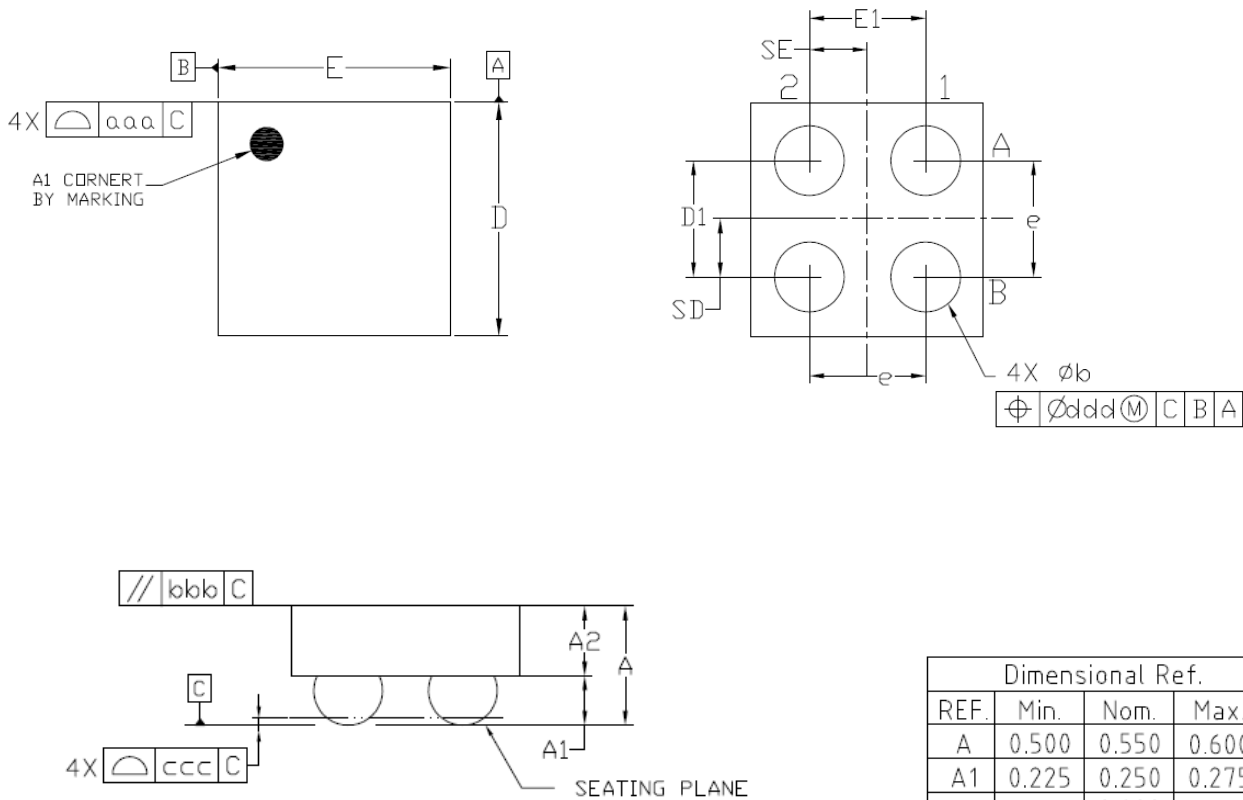


**FUNCTIONAL BLOCK DIAGRAM**



**Figure 1. Functional Block Diagram**

**PACKAGE OUTLINE**



Dimensional Ref.			
REF.	Min.	Nom.	Max.
A	0.500	0.550	0.600
A1	0.225	0.250	0.275
A2	0.275	0.300	0.325
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	0.260	0.310	0.360
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.