

#### DESCRIPTION

The GLF1201 is an advanced technology fully integrated I<sub>Q</sub>Smart™ load switch device with True Reverse Current Blocking (TRCB) technology and the slew rate control of the output voltage.

The GLF1201 offers industry leading True Reverse Current Blocking (TRCB) performance, featuring an ultra-low threshold voltage. It minimizes reverse current flow in the event that the V<sub>OUT</sub> pin voltage exceeds the V<sub>IN</sub> voltage.

The GLF1201 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.

The GLF1201 load switch device supports 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 reduces operating cost.

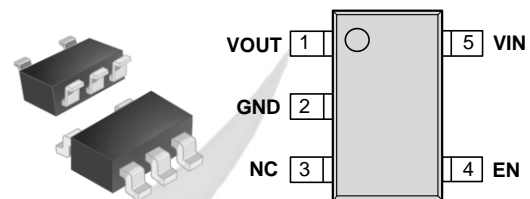
#### FEATURES

- True Reverse Current Blocking
- Ultra-Low I<sub>Q</sub>: 0.47 uA Typ @ 5.5 V<sub>IN</sub>
- Ultra-Low I<sub>SD</sub>: 26 nA Typ @ 5.5 V<sub>IN</sub>
- Low R<sub>ON</sub> : 54 mΩ Typ @ 5.5 V<sub>IN</sub>
- I<sub>OUT</sub> Max: 2 A
- Wide Input Range: 1.5 V to 5.5 V  
6 V abs max
- Controlled Rise Time: 600 us at 3.3V<sub>IN</sub>
- Internal EN Pull-Down Resistor on
- Integrated Output Discharge Switch: GLF1201
- HBM: 4 kV, CDM: 2 kV

#### APPLICATIONS

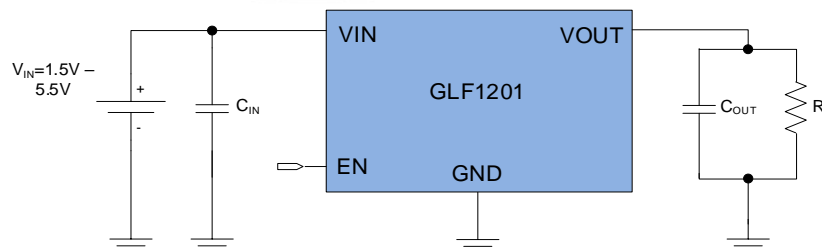
- Low Power Subsystem
- Telecommunication Module
- Mobile Devices

#### PACKAGE

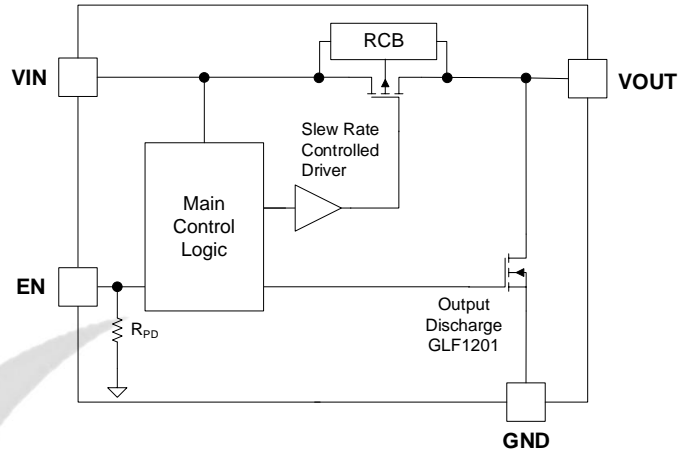


SOT23-5L

#### APPLICATION DIAGRAM



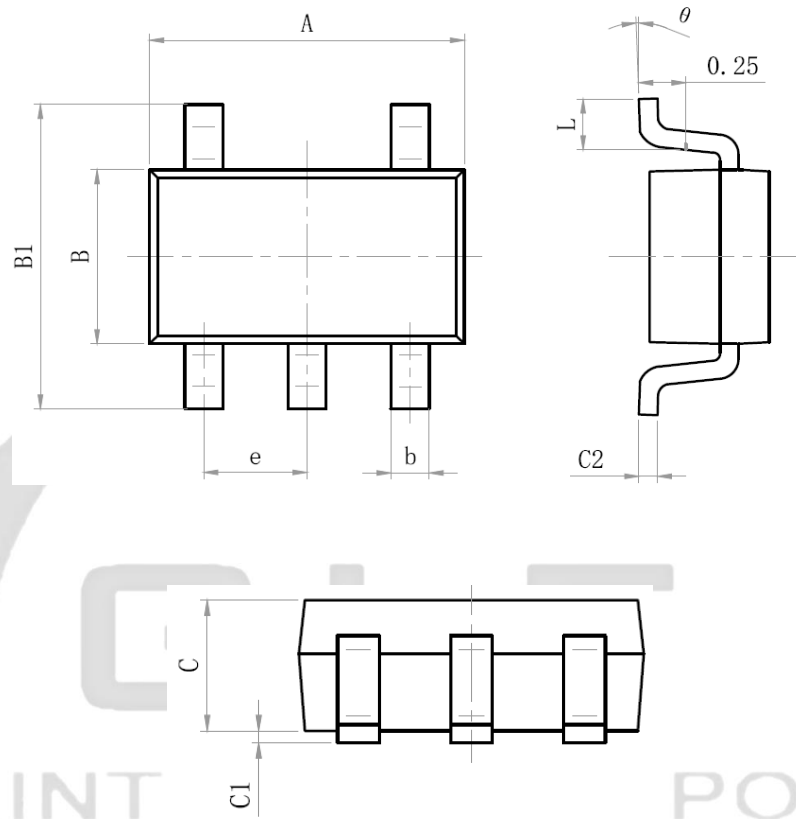
**FUNCTIONAL BLOCK DIAGRAM**



**Figure 1. Functional Block Diagram**

**GLF**  
INTEGRATED POWER

**PACKAGE OUTLINE**



Size Mark	Min (mm)	Max (mm)	Size Mark	Min (mm)	Max (mm)
A	2.82	3.02	C	1.05	1.15
e	0.95 (BSC)		C1	0.03	0.15
b	0.28	0.45	C2	0.12	0.23
B	1.50	1.70	L	0.35	0.55
B1	2.60	3.00	theta	0°	8°