

GLF72110/GLF72111

3 A, Ultra-low Power I_QSmart™ Load Switch with True Reverse Current Blocking

DESCRIPTION

The GLF72110/GLF72111 is an advanced technology fully integrated I_QSmart™ load switch device with True Reverse Current Blocking (TRCB) technology and slew rate control of the output voltage.

The GLF72110/GLF72111 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_{OUT} pin voltage exceeds the V_{IN} voltage.

The GLF72110/GLF72111 has industry leading efficiency. It features a R_{ON} as low as 29 mΩ typical at 5.5 V, reducing power loss during conduction. The device also features ultra-low shutdown current (I_{SD}) to reduce power loss and battery drain in the off state. When EN is pulled low, and the output is grounded, the GLF72110/GLF72111 can achieve an I_{SD} as low as 24 nA typical at 5.5 V.

The GLF72110/GLF72111 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.

The GLF72110/GLF72111 load switch device is small, utilizing a chip scale package with 4 bumps in a 0.97 mm x 0.97 mm x 0.55 mm die size and a 0.5 mm pitch.

FEATURES

- True Reverse Current Blocking
- Ultra-Low I_Q: 1.4 uA Typ @ 5.5 V_{IN}
- Ultra-Low I_{SD}: 24 nA Typ @ 5.5 V_{IN}
- Low R_{ON} : 29 mΩ Typ @ 5.5V_{IN}
- I_{OUT} Max: 3 A
- Wide Input Range: 1.5 V to 5.5 V
6 Vabs max
- Controlled Rise Time: 1.2 ms at 3.3 V_{IN}
- Internal EN Pull-Down Resistor
- Integrated Output Discharge Switch:GLF72111
- 0.97 mm x 0.97 mm x 0.55 mm Wafer Level Chip Scale Package