

**GLF72119****3 A, Ultra-low Power I<sub>Q</sub>Smart™ Load Switch  
with True Reverse Current Blocking****DESCRIPTION**

The GLF72119 is an advanced technology fully integrated I<sub>Q</sub>Smart™ load switch device with True Reverse Current Blocking (TRCB) technology and slew rate control of the output voltage.

The GLF72119 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 GL72119 has industry leading efficiency. It features a R<sub>ON</sub> as low as 29 mΩ typical at 5.5 V, reducing power loss during conduction. The device also features ultra-low shutdown current (I<sub>SD</sub>) to reduce power loss and battery drain in the off state. When EN is pulled low, and the output is grounded, the GLF72119 can achieve an I<sub>SD</sub> as low as 24 nA typical at 5.5 V.

The GLF72119 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 GLF72119 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<sub>Q</sub>: 1.4 uA Typ @ 5.5 V<sub>IN</sub>
- Ultra-Low I<sub>SD</sub>: 24 nA Typ @ 5.5 V<sub>IN</sub>
- Low R<sub>ON</sub>: 29 mΩ Typ @ 5.5V<sub>IN</sub>
- I<sub>OUT</sub> Max: 3 A
- Wide Input Range: 1.5 V to 5.5 V  
6 V<sub>abs</sub> max
- Controlled Rise Time: 1.2 ms at 3.3 V<sub>IN</sub>
- Internal EN Pull-Down Resistor
- Integrated Output Discharge Switch:  
GLF72119
- 0.97 mm x 0.97 mm x 0.55 mm Wafer  
Level Chip Scale Package



## PRODUCT TABLE

Eval Board Ordering Info	Part Number	Top Mark	R <sub>ON</sub> (Typ.) @ 5.5V <sub>in</sub>	Output Discharge	EN Activity
EV002-GLF72119	GLF72119	EK	29 mΩ	85 Ω	High