

## GLF1220H and GLF1221H Ultra-Small, I<sub>Q</sub>Smart™ Load Switch with Slew Rate Control

### DESCRIPTION

The evaluation board EV028 features the GLF1220H and GLF1221H are an ultra-efficiency, 1 A rated, integrated load switch with the slew rate control as well as a true reverse current blocking function. The best-in-class efficiency makes it an ideal choice for use in IoT, mobile, and wearable electronics.

The GLF1220H and GLF1221H feature an 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 GLF1220H and GLF1221H offer and industry leading true reverse current blocking (TRCB) function in on and off states. The integrated slew rate control can 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 GLF1220H and GLF1221H slew rate control specifically limits inrush current during turn-on to minimize voltage droop.

### FEATURES

- Wide Input Range, V<sub>IN</sub> = 1.1 V to 5.5 V  
6 V<sub>ABS</sub> Max
- I<sub>OUT</sub> Max = 1.0 A
- Low R<sub>ON</sub> = 52 mΩ Typ. at 5.5 V<sub>IN</sub>
- Ultra-Low I<sub>Q</sub>: 500 nA Typ at 5.5 V<sub>IN</sub>
- Ultra-Low I<sub>SD</sub>: 10 nA Typ at 5.5 V<sub>IN</sub>
- True Reverse Current Blocking Protection
- Integrated Output Discharge Switch, GLF1221H
- Internal Pull-Down Resistor on EN Pin
- 0.67 mm x 0.67 mm Wafer Level Chip Scale Package

### PRODUCT TABLE

Eval Board Ordering Info	Part Number	Top Mark	True Reverse Current Blocking	R <sub>ON</sub> (Typ) at V <sub>IN</sub> (MAX)	V <sub>OUT</sub> Rise Time at 3.3 V <sub>IN</sub>	Output Discharge	EN Activity
EV028-GLF1220H	GLF1220H	Z	Yes	52 mΩ	390 μs	NA	High
EV028-GLF1221H	GLF1221H	R				85 Ω	