GLF1200/GLF1201
Nano-Current Power, I_QSmart™ Switch

DESCRIPTION

The GLF1200/GLF1201 is an advanced technology fully integrated I_QSmart™ load switch device with True Reverse Current Blocking (TRCB) technology and the slew rate control of the output voltage.

The GLF1200 / 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 VOUT pin voltage exceeds the VIN voltage.

The GLF1200 / 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 GLF1200 / 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
- Wide Input Range: 1.5 V to 5.5 V
  6 V abs max
- R_{ON} : 54 mΩ Typ @ 5.5 V_{IN}
- I_{OUT} Max: 2 A
- Ultra-Low I_Q: 0.47 uA Typ @ 5.5 V_{IN}
- Ultra-Low I_{SD}: 26 nA Typ @ 5.5 V_{IN}
- Controlled Rise Time: 600 us at 3.3 V_{IN}
- Internal EN Pull-Down Resistor on
- Integrated Output Discharge Switch: GLF1201
- Wide Operating Temperature Range: -40 °C ~ 85 °C
- HBM: 4 kV, CDM: 2 kV

PRODUCT TABLE

Eval Board Ordering Infor	Part Number	Top Mark	TRCB	R_{ON} (Typ) at 5.5 V	Output Discharge	EN Activity
EV021 – GLF1200	GLF1200	DM	Yes	54 mΩ	NA	High
EV021 – GLF1201	GLF1201	DN		54 mΩ	85 Ω	High