

GLF1110/GLF1111 Nano-Current Consumed, I_QSmart™ Load Switch

DESCRIPTION

The GLF1110/GLF1111 is an ultra-efficiency, 2 A rated, Load Switch with integrated slew rate control. The best in class efficiency makes it an ideal chose for use in IoT, mobile, and wearable electronics.

The GLF1110/GLF1111 features ultra-efficient I_QSmart™ technology that supports the lowest quiescent current (I_Q) and shutdown current (I_{SD}) in the industry. Low I_Q and I_{SD} solutions help designers to reduce parasitic leakage current, improve system efficiency, and increase battery lifetime.

The GLF1110/GLF1111 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 GLF1110/GLF1111 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 reduce operating cost.

FEATURES

- 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: 2 nA Typ @ 5.5 V_{IN}
- Ultra-Low I_{SD}: 13 nA Typ @ 5.5 V_{IN}
- Controlled Rise Time: 600 us at 3.3 V_{IN}
- Internal EN Pull-Down Resistor
- Integrated Output Discharge Switch:
GLF1111
- Wide Operating Temperature Range:
-40 °C ~ 85 °C
- HBM: 4 kV, CDM: 2 kV

PRODUCT TABLE

Eval Board Ordering Infor	Part Number	Top Mark	R _{ON} (Typ) at 5.5 V	Output Discharge	EN Activity
EV021 – GLF1110	GLF1110	DK	54 mΩ	NA	High
EV021 – GLF1111	GLF1111	DL	54 mΩ	85 Ω	High