

GLF71511

Ultra-Efficient, I_QSmart™ Load Switch with Slew Rate Control

DESCRIPTION

The GLF71511 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 GLF71511 features ultra -efficient IQSmart™ technology that supports the lowest quiescent current (IQ) and shutdown current (ISD) in the industry. Low IQ and ISD solutions help designers to reduce parasitic leakage current, improve system efficiency, and increase battery lifetime.

The GLF71511 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.

GLF71511 Load Switch devices support an industry leading wide input voltage range and helps to improve operating life and system robustness. Furthermore, one device can be used in mu ltiple voltage rail applications which helps to simplify inventory management and reduce operating cost.

FEATURES

- Wide Operating Temperature Range: -40° C ~ 105° C
- Ultra-Low I_Q: 5 nA Typ @ 3.3 V_{IN}
- Ultra-Low I_{SD}: 9 nA Typ @ 3.3 V_{IN}
- Low R_{ON} : 30 mΩ Typ @ 3.3V_{IN}
- I_{OUT} Max: 2 A
- Wide Input Range: 1.1 V to 5.5 V
6 V abs max
- Controlled Rise Time: 2.2 ms at 3.3 V_{IN}
- Internal EN Pull-Down Resistor
- Integrated Output Discharge Switch
- HBM: 6 kV, CDM: 2 kV
- Ultra-Small: 0.97 mm x 0.97 mm x 0.55 mm WLCSP 4 Bumps, 0.5 mm Pitch

PRODUCT TABLE

Eval Board Ordering Info	Part Number	Top Mark	R _{ON} (Typ.) @ 3.3V _{in}	Output Discharge	EN Activity
EV002-GLF71511	GLF71511	CD	30 mΩ	85 Ω	High