

GLF82321**2 A Ultra Low Current Consumption Load Switch with Lower Input Voltage Range****DESCRIPTION**

The GLF82321 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 GLF82321 offers industry leading True Reverse Current Blocking (TRCB) performance, featuring an ultra-low threshold voltage. It prevents a reverse current from V_{OUT} to V_{IN} all the time when the output voltage exceeds the input voltage.

The GLF82321 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 GLF82321 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 multiple voltage rail applications which helps to simplify inventory management and reduce operating cost.

FEATURES

- Supply Voltage Range: 2.0 V to 6.5 V
7 V_{abs} max
- I_{OUT} Max: 2 A
- Low R_{ON}: 40 mΩ Typ @ 6.5 V_{IN}
- Ultra-Low I_Q: 1.6 μA Typ @ 6.5 V_{IN}
- Ultra-Low I_{SD}: 20 nA Typ @ 6.5 V_{IN}
- Controlled Rise Time: 2.6 ms at 6.0 V_{IN}
- True Reverse Current Blocking
- Smart Enable Pin
- I_{EN}: 3 nA Max at V_{EN} > V_{IH}
- R_{EN}: 500 kΩ Typ at V_{EN} < V_{IL}
- Integrated Output Discharge Switch
- Wide Operating Temperature Range:
-40 °C ~ 85 °C
- HBM: 6 kV, CDM: 2 kV
- SOT23-5L

PRODUCT TABLE

Eval Board Ordering Info	Part Number	Top Mark	R_{ON} (Typ.) @ 6.5 V	Output Discharge (Typ.)	EN Activity
EV020-GLF82321	GLF82321	DG	40 mΩ	550 Ω	High