## DESCRIPTION

The GLF81311 is an ultra-efficiency, 3 A rated, Load Switch with integrated slew rate control. The best-in-class efficiency makes it an ideal chose for use in loT, mobile, and wearable electronics.

The GLF81311 features ultra-efficient $\mathrm{I}_{\mathrm{Q}}$ Smart ${ }^{\text {TM }}$ technology that supports the lowest quiescent current ( $\mathrm{I}_{\mathrm{Q}}$ ) and shutdown
 solutions help designers to reduce parasitic leakage current, improve system efficiency, and increase battery lifetime.

The GLF81311 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.

GLF81311 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

$$
7 \mathrm{~V}_{\mathrm{abs}} \max
$$

- Iout Max: 3 A
- Low Ron: $41 \mathrm{~m} \Omega$ Typ @ $6.5 \mathrm{~V}_{\mathrm{in}}$
- Ultra-Low IQ: 10 nA Typ @ $6.5 \mathrm{~V}_{\mathrm{in}}$
- Ultra-Low ISD: 20 nA Typ @ $6.5 \mathrm{~V}_{\mathrm{IN}}$
- Controlled Rise Time: 2.3 ms at $6 \mathrm{~V}_{\mathbb{N}}$
- Smart Enable Pin $I_{\text {EN: }} 3 \mathrm{nA}$ Typ at $\mathrm{V}_{\text {EN }}>\mathrm{V}_{\text {IH }}$ $R_{\text {en }} 500 \mathrm{k} \Omega$ Typ at $\mathrm{V}_{\text {EN }}<\mathrm{V}_{\text {IL }}$
- Integrated Output Discharge Switch
- Wide Operating Temperature Range:

$$
-40^{\circ} \mathrm{C} \sim 85^{\circ} \mathrm{C}
$$

- HBM: $6 \mathrm{kV}, \mathrm{CDM}: 2 \mathrm{kV}$


## PRODUCT TABLE

| Eval Board <br> Ordering Info | Part <br> Number | Top Mark | RoN <br> (Typ.) at 6.5 <br> V | Output <br> Discharge | EN <br> Activity |
| :---: | :---: | :---: | :---: | :---: | :---: |
| EV020-GLF81311 | GLF81311 | DE | $41 \mathrm{~m} \Omega$ | No | High |

