

GLF7130x

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

DESCRIPTION

The evaluation board EV010 features the GLF7130X ultra-small slew rate controlled I_QSmart™ Load Switch suitable for applications that control current power rails in wearables and data storage devices.

The GLF7130 X is the fully integrated I_QSmart™ Load Switch with a fixed slew rate control to limit the inrush current to minimize input voltage droop, and offer an ultra-low R_{ON} in 0.77 mm x 0.77 mm x 0.50 mm (or 0.35 mm) Wafer Level Chip Scale Package.

FEATURES

- Wide Input Range 1.1 V to 5.5 V
- Low R_{ON} = 34 mΩ Typ. at 5.5 V_{IN}
- 2 A Maximum Continuous Current
- Ultra-Low I_Q: 1 nA Typ
- Ultra-Low I_{SD}: 1 nA Typ @5.5 V_{IN}
- 430 us Rise Time at 3.3 V_{IN}
- Internal EN Pull-Down Resistor
- Optional Output Pull Down
- 0.77 mm x 0.77 mm Wafer Level Chip Scale Package
- Wide Operating Temperature Range:
 - 40 °C to 85 °C
 - 40 °C to 105 °C (GLF71301H)
- Ultra-Thin GLF7130x: 0.5 mm Typ.
GLF71301T: 0.35 mm Typ.

PRODUCT TABLE

Eval Board Ordering Info	Part Number	Top Mark	Operating temperature range	Vout Rise Time at 3.3 V _{IN} (Typ)	Output Discharge	EN Activity
EV010-GLF71300	GLF71300	A	-40 °C to 85 °C	430 us	NA	High
EV010-GLF71301	GLF71301/T	B	-40 °C to 85 °C	430 us	85 Ω	High
EV010-GLF71302	GLF71302	C	-40 °C to 85 °C	430 us	NA	Low
EV010-GLF71303	GLF71303	D	-40 °C to 85 °C	430 us	85 Ω	Low
EV010-GLF71306	GLF71306	K	-40 °C to 85 °C	42 us	85 Ω	High
EV010-GLF71308	GLF71308	L	-40 °C to 85 °C	42 us	85 Ω	High
EV010-GLF71301H	GLF71301H	P	-40 °C to 105 °C	430 us	85 Ω	High