GLF73710

Nano-current Consumed I_QSmart^{TM} Battery Protection Switch

DESCRIPTION

The EV011 -GLF73710 evaluation board features the GLF73710 that is an I_QSmart^{TM} ultra-efficient, full battery protection switch with over discharging voltage and short circuit protections for lithium battery safety.

When the battery voltage decreases below the over discharge detection voltage level, the GLF73710 is turned off immediately, consuming an ultra-low leakage current (I_{SD}) to save the battery. In addition, at load short conditions, the GLF73710 is latched off and remain the off sate in a preset delay time.

The GLF73710 is activated by applying V_{ON} to the VOUT pin from a charger or a DC power supplier.

GLF73710 FEATURES

- V_{OD}, Over Discharge Detection: 2.88 V_{BAT}
- GLF73710 is Activated by Applying V_{ON} to the VOUT pin from Charger
- 1.5 A Continuous Charging Current Capability from VOUT to VBAT Pin
- Load Short Circuit Protection with Delay Time to avoid a false trigger
- Low R_{ON} : 32 mΩ Typ. @ 3.6 V_{BAT}
- I_Q = 700 nA Typ @ 4.2 V_{BAT}
- I_{SD} = 35 nA Typ @ V_{BAT} < V_{OD}
- Latch-off at Over Discharge Detection and Short Circuit Protection. Apply V_{ON} to VOUT pin to turn on GLF73710 switch again
- 0.5 V Battery Minimum Voltage for Charging
- 0.97 mm x 0.97 mm x 0.55 mm Chip Scale Package 4 Bumps, 0.5 mm Pitch

PRODUCT TABLE

Eval Board Ordering Info	Part Number	Top Mark	R_{ON} (Typ.) @ 3.6Vin	Threshold V_{OD}	Short Circuit Protection, I_{SC}
EV011-GLF73710	GLF73710	CB	32 mΩ	2.88 V	0.6 A

EVALUATION BOARD, DEVICE PACKAGE, AND PINOUT