

GLF76311

Nano Current Consumed Power On/Off Switch

DESCRIPTION

The EV011-GLF76311 evaluation board features the GLF76311 that is an ultra-thin, ultra-efficient I_QSmart™ load switch with an integrated ON/OFF delay timer for Smart bracelet and Mobile handheld device.

When the VBAT pin is connected to the battery, the main switch of GLF76311 is turned on, that is the default state. When the internal integrated P-MOSFET is turned on, by pulling the ON / OFF pin to a low level for 6 second, the internal integrated P-MOSFET will be turned off, and the entire system enters the ultra-deep sleep energy-saving mode. The typical I_{SD} of GLF76311 is 9nA. When the internal integrated P-MOSFET is turned off, by pulling the ON / OFF pin to a low level for 3 second, the internal integrated P-MOSFET will be turned on, and the entire system enters the normal working mode. The I_Q of GLF76311 is 6nA.

The GLF76311 integrated 1ms slew rate control can also enhance system reliability by mitigating bus voltage swings during switching events.

FEATURES

- Ultra-Low I_{SD}: 7 nA Typ @ 3.6VBAT
- Ultra-Low I_Q: 9 nA Typ @ 3.6VBAT
- Low R_{ON} : 33 mΩ Typ @ 3.6VBAT
- I_{OUT} Max : 2A
- Wide Input Range: 2.5V to 5.5V
- 6Vabs max
- Turn-On Delay Time, 3 s Typ
- Turn-Off Delay Time, 6 s Typ
- Controlled Output Rise Time: 1ms at 3.6VBAT
- Integrated Output Discharge Switch When Disabled
- Operating Temperature Range: -40 to 85°C
- HBM: 6kV, CDM: 2kV
- Ultra-Small: 0.97 mm x 0.97 mm x 0.55 mm WLCSP

PRODUCT TABLE

Eval Board Ordering Info	Part Number	Top Mark	Turn On Delay Time	Turn Off Delay Time	Output Discharge	Package
EV011-GLF76311	GLF76311	CT	3 sec	6 sec	Yes	0.97 mm x 0.97 mm x 0.55mm WLCSP