

GLF72501

2 A Ultra Low Current Consumption N-channel Load Switch with Lower Input Voltage Range and Reverse Current Blocking

DESCRIPTION

The GLF72501 features a reverse current blocking protection. When the GLF72501 is disabled, it prevents reverse current flowing from the output to the input source.

The GLF72501 Load Switch is a fully integrated 2 A NMOS load switch with I_{QSmart}^{TM} advanced technology. The device is targeted for the mobile computing and data storage markets as a high performance low cost solution for load switch applications.

The GLF72501 has a constant low on-resistance of 32 m Ω at room temperature. The fixed rise time helps prevent undesirable inrush current when turned on and the internal EN pin pulldown resistor ensures the device remains in the shutdown mode when disabled.

The GLF72501 is available in a wafer level chip scale package (WLCSP) measuring 0.77 mm x 0.77 mm x 0.46 mm with a 0.5 mm pitch. This allows the user to save board space and increase cost savings.

FEATURES

- Supply Voltage Range : 0.8 V to 3.6 V
- Low R_{ON} : 32 m Ω Typ at Supply Voltage Range
- I_{OUT} Max : 2 A
- Ultra-Low I_Q :
 - 200 nA Typ at 0.8 V_{IN}
 - 180 nA Typ at 1.0 V_{IN}
 - 170 nA Typ at 1.2 V_{IN}
- Integrated Slew Rate Control Driver
- Reverse Current Blocking Protection When Disabled
- Internal EN Pull-Down Resistor
- Integrated Output Discharge Switch
- HBM : 6 kV, CDM : 2 kV

PRODUCT TABLE

Eval Board Ordering Info	Part Number	Top Mark	R_{ON} Typ. at V_{IN} Range	Output Discharge	EN Activity
EV010-GLF72501	GLF72501	G	32 m Ω	80 Ω	High