

GLF72510/GLF72511

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

DESCRIPTION

The GLF72510 / GLF72511 Load Switch is a fully integrated 2A NMOS load switch with IQSmart™ 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 GLF72510 / GLF72511 has a constant low on-resistance of 27 mΩ 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. In shutdown mode the GLF72510 / GLF72511 draws only 6 nA typical at 3.6 V input supply voltage.

The GLF72510 / GLF72511 is available in a wafer level chip scale package (WLCSP) measuring 0.97 mm x 0.97 mm x 0.55mm 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 RON : 27 mΩ Typ at Supply Voltage Range
- IOOUT Max : 2 A
- Ultra-Low IQ :
 - 50 nA Typ at 0.8 VIN
 - 60 nA Typ at 1.0 VIN
 - 80 nA Typ at 1.2 VIN
- Integrated Slew Rate Control Driver
- Internal EN Pull-Down Resistor
- Integrated Output Discharge Switch : GLF72511
- HBM : 6 kV, CDM : 2 kV
- Ultra-Small : 0.97mm x 0.97mm x 0.55mm Wafer Level Chip Scale Package

PRODUCT TABLE

Eval Board Ordering Info	Part Number	Top Mark	R _{ON} (Typ.) @ 3.6 V	Output Discharge	EN Activity
EV002-GLF72510	GLF72510	CP	27 mΩ	No	High
EV002-GLF72511	GLF72511	CQ	27 mΩ	Yes	High