

## GLF72520

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

#### DESCRIPTION

The GLF72520 Load Switch is a fully integrated 2 A NMOS load switch with *I<sub>Q</sub>Smart™* 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 GLF72520 has a constant low on-resistance of 10 mΩ at room temperature and a supply current consumption of 105 nA to 3.0 uA at defined supply voltage range. 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 GLF72520 draws only 6.5 nA typical at 3.6 V input supply voltage.

The GLF72520 is available in a wafer level chip scale package (WLCSP) measuring 0.97 mm x 1.47 mm x 0.55 mm with a 0.5 mm pitch. This allows the user to save board space and increase cost savings.

#### GLF72520 FEATURES

- Supply Voltage Range : 0.8 V to 3.6 V
- Low R<sub>ON</sub> : 10 mΩ Typ
- Ultra-Low I<sub>Q</sub> :
  - 105 nA Typ at 0.8 V<sub>IN</sub>
  - 120 nA Typ at 1.0 V<sub>IN</sub>
  - 740 nA Typ at 2.5 V<sub>IN</sub>
  - 2.3 uA Typ at 3.0 V<sub>IN</sub>
  - 3.0 uA Typ at 3.3 V<sub>IN</sub>
- Ultra-Low I<sub>SD</sub>: 6.5 nA Typ at 3.6 V<sub>IN</sub>
- I<sub>OUT</sub> Max: 4 A
- V<sub>OUT</sub> Rise Time : 1150 us at 0.8 V<sub>IN</sub>
- Internal EN Pull-Down Resistor
- Operating Temperature Range: -40 to 85 °C
- HBM: 6 kV, CDM: 2 kV
- 0.97 mm x 1.47 mm x 0.55 mm, 6 Bumps Wafer Level Chip Scale Package

#### PRODUCT TABLE

Eval Board Ordering Info	Part Number	Top Mark	R <sub>ON</sub> (Typ.) @ Vin Rang	Output Discharge	EN Activity
EV007-GLF72520	GLF72520	AS	10 mΩ	No	High