

GLF1501

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

DESCRIPTION

The GLF1501 load Switch is a fully integrated 3A NMOS load switch with I_QSmart™ 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 GLF1501 has a constant low on-resistance of 52 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 GLF1501 draws only 6 nA typical at 3.6 V input supply voltage.

FEATURES

- Supply Voltage Range: 0.85 V to 3.6 V
- Low RON: 52 mΩ Typ at Supply Voltage Range
- I_OUT Max: 3 A
- Ultra-Low IQ:
 - 60 nA Typ at 0.85 V_{IN}
 - 60 nA Typ at 1.0 V_{IN}
 - 110 nA Typ at 1.5 V_{IN}
- Integrated Slew Rate Control Driver
- Internal EN Pull-Down Resistor
- Integrated Output Discharge Switch
- HBM : 4 kV, CDM : 2 kV
- Package: SOT23-5L

PRODUCT TABLE

Eval Board Ordering Info	Part Number	Top Mark	R _{ON} (Typ.) @ 3.6 V	Output Discharge	EN Activity
EV021-GLF1501	GLF1501-T1G7	FC	52 mΩ	85 Ω	High