

GLF1411

Dual Channel, IQSmart™ Load Switch with Slew Rate Control

DESCRIPTION

The GLF1411 is an ultra-efficient dual channel load switch with slew rate control. The devices feature the ultra-efficient IQSmart™ technology that supports some of the lowest R_{ON} , quiescent currents (I_Q), and shutdown currents (I_{SD}) in an input voltage range from 1.5 V to 5.5 V.

The integrated slew rate control can also enhance system reliability by mitigating bus voltage swings during switching events. Where uncontrolled switches can generate high inrush currents that result in voltage droop and/ or bus reset events, the GLF1411 slew rate control specifically limits inrush current during turn-on to minimize voltage droop.

Each channel runs independently controlled by separate EN control pin. Both devices feature an integrated output discharge switch when they are turned off to discharge output capacitors quickly.

FEATURES

Per Channel

- Supply Voltage Range: 1.5 V to 5.5 V
6 V_{ABS} Max
- Low R_{ON} :
 - 180 m Ω Typ @ 5.5 V_{IN}
 - 220 m Ω Typ @ 3.3 V_{IN}
 - 265 m Ω Typ @ 2.5 V_{IN}
- I_{OUT} Max: 1 A Continuous Output Current
- Ultra-Low Quiescent Current
 - I_Q : 12 nA Typ. at 5.5 V_{IN}
- Ultra-Low Stand-by Current
 - I_{SD} : 32 nA Typ. at 5.5 V_{IN}
- Slew Rate Control Pin of Output Rise Time
- Output Discharge Switch When Disabled
- HBM : 5 kV, CDM : 2 kV
- Package: DFN-8L 1.5mm*1.5mm

PRODUCT TABLE

Eval Board Ordering Info	Part Number	Top Mark	R_{ON} (Typ.) @ 5.5 V	Output Discharge	V_{OUT} Rise Time t_R (Typ) at 3.3 V	EN Activity
EV025-GLF1411	GLF1411-D1G7	DR	180 m Ω	95 Ω	380 μ s at SR= High 60 μ s at SR= GND	High