

GLF2351A

High Precision Programmable Current Limit Power Switch

DESCRIPTION

The GLF2351A is an advanced technology fully integrated power switch for applications required for precision output current limiting. The GLF2351A features also various protection functions such as under voltage lockout, true reverse current blocking (TRCB), short circuit protection, and thermal shutdown.

The GLF2351A provides a built-in output voltage slew rate control to limit the inrush current and voltage surges. The FLGB output pin can be used to send a signal of fault events to the system controller. The integrated thermal shutdown (TSD) insures complete protection for the switch during output current limit and short circuit conditions. The GLF2351A is an ideal switch for USB power supply.

FEATURES

- Input Range: 2.5 V to 5.5 V
- Programmable Output Constant Current Limit Range: 40 mA to 2.8 A
- Low R_{ON} : 32 m Ω Typ. at 5 V_{IN}
- Ultra-Low I_Q : 19 μ A Typ. at 5 V_{IN}
- Ultra-Low I_{SD} : 63 nA Typ. at 5 V_{IN}
- Under Voltage Lockout Protection
- Output Voltage Slew Rate Controlled
- True Reverse Current Blocking Protection
- Short Circuit Protection
- Deglitched Fault Flag Indication
- Integrated Output Discharge Switch
- Thermal Shutdown Protection

PRODUCT TABLE

Eval Board Ordering Info	Part Number	Current Limit ILIM	Package
EV035-GLF2351A-S3G7	GLF2351A-S3G7	Programmable 40 mA to 2.8 A	CSP 0.97 mm x 1.47 mm