

Product Overview

FPF34892: SIDO Over-Voltage Protection Load Switch

For complete documentation, see the data sheet.

The FPF3489x features a Single Input Dual Output (SIDO) power switch, which offers surge protection and Over-Voltage Protection (OVP), to protect downstream components and enhancing overall system robustness. Channel one (VBUS to VOUT) is an active-low, 28 V/3.5 A rated, power MOSFET switch with an internal clamp supporting ± 100 V surge protection, fixed OVP at 5.8V when OVSEL is tied to GND or 13.9V (FPF34891) / 10.4V (FPF34892) when OVSEL is floating. Channel two (VBUS to BAT) is an active-high, 5 V/6 A rated, power MOSFET, fixed OVP at VBUS is 5.8 V (± 200 mV) and Reverse Current Blocking (RCB) during its OFF State. OVLO at BAT can be programmed by external resistors. The Over-Voltage status will be latched and FLAG will signal the fault by pulling low. To re-start this channel from OVLO, EN2 need to be toggled from LOW to HIGH. The FPF3489x is available in a 28-bump, 1.67 mm x 2.96 mm Wafer-Level Chip-Scale Package (WL-CSP) with 0.4 mm pitch.

Features

- Single Input Dual Output (SIDO) Switch
- V_{BUS} to V_{OUT} Path
- V_{BUS} to BAT Path
- Surge Protection under IEC 61000-4-5
- V_{BUS}: ± 100 V
- Input Voltage Range
- V_{BUS}: 2.7 V ~ 13.5 V
- Max. Continuous Current Capability
- V_{OUT} Path: 3.5 A
- BAT Path: 6 A

For more features, see the data sheet

Applications

- This product is general usage and suitable for many different applications.

For more information please contact your local sales support at www.onsemi.com.

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