

Product Overview

FPF2700: AccuPower™ 0.4~2 A Adjustable Over-Current Protection Load Switches

For complete documentation, see the data sheet.

The AccuPower™ FPF270X series is a family of current-limit load switches that provide full protection to systems and loads from excess current conditions. Minimum current limit is adjustable from 0.4 A to 2.0 A. The FPF270X contains a slew-rate-controlled N-channel MOSFET and slew-rated turn-on to prevent power bus disturbances from being caused by "hot plugging" loads or momentary excess load demands. The input voltage range is 2.8 V to 36 V. Loads can be activated or deactivated with a low-voltage logic-compatible ON pin. Fault conditions can be monitored using the error flag pin and/or the power-good pin. Each member of the FPF270X family serves a category of load-fault response. All devices clamp the load current so that it cannot exceed an externally programmed current level. An over temperature feature provides further device protection in case of excessive levels of power dissipation. FPF2700 responds to an overload condition that lasts longer than a fixed blanking period by turning off the load, followed by a retry after the auto-restart time. The FPF270X is available in a space-saving Pb and Halogen free, 8-lead MLP 3x3mm and SO8 packages.

Features

- 2.8 V to 36 V Input Voltage Range
- Typical $R_{DS(ON)}=88\text{ m}\Omega$
- 0.4 A to 2 A Adjustable Current Limit (Min.)
- Slew Rate Controlled
- ESD Protected, Above 2000 V HBM
- Thermal Shutdown
- Active LOW Enable
- UVLO Protection
- Power-Good Output

Applications

- Media Tablets
- Storage & Peripherals
- Mobile Handsets
- Wireless LAN Card & Broadband Access
- PMP/MP3 Players

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Channels	r_{on} (m Ω)	Max Current (A)	V_{in} Min (V)	V_{in} Max (V)	Package Type
FPF2700MPX	1.432	Pb-free Halide free non AEC-Q and PPAP	Active	1	88	3.5	2.8	36	WDFN-8
FPF2700MX	1.211	Pb-free Halide free non AEC-Q and PPAP	Active	1	88	3.5	2.8	36	SOIC-8

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

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