
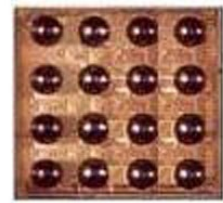


Power Switch 1-OUT 0.095Ohm 16-Pin WLCSP T/R

Manufacturer:	<u>ON Semiconductor, LLC</u>
Package/Case:	WLCSP16
Product Type:	Switches
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	LTB



Images are for reference only

[Inquiry](#)

General Description

The FPF3042 is an 18 V-rated Dual-Input Single-Output (DISO) load switch consisting of two channels of slew-rate-controlled, low-on-resistance, N-channel MOSFET switches with protection features. The slew-rate-controlled turn-on characteristic prevents inrush current and the resulting excessive voltage droop on the input power rails. The input voltage range operates from 4.0 V to 12.4 V at both VBUS and VIN to align with the needs of high-voltage portable device power rails. Both VIN and VBUS have the over-voltage protection of 14 V (typical) to avoid damage to the system. VIN and VBUS bidirectional switching allows reverse current from VOUT to VIN or VBUS for On-The-Go, (OTG) Mode. The switching is controlled by logic input EN and VIN_SEL is capable of interfacing directly with low-voltage control signal General-Purpose Input / Output (GPIO). FPF3042 is available in 1.76 mm x 1.96 mm Wafer-Level Chip-Scale Package (WLCSP), 16-bump, 0.4 mm pitch.

Key Features

Dual-Input, Single-Output Load Switch (DISO)

Input Supply Operating Range:

4.0 V~12.4 V at VIN

4.0 V~12.4 V at VBUS

Typical RON:

95 mΩ at VIN=5 V

70 mΩ at VBUS=5 V

Bidirectional Switch for VIN and VBUS

Slew Rate Controlled:

50 μs at VIN for < 4.7 μF COUT

90 μs at VBUS for < 4.7 μF COUT

Maximum ISW: 2.7 A per Channel

Break-Before-Make Transition

Under-Voltage Lockout (UVLO)

Thermal Shutdown

Over-Voltage Lockout (OVLO)

ESD Protected:

Logic CMOS IO Meets JESD76 Standard for GPIO Interface and Related Power Supply Requirements

Charged Device Model: >1.5 kV

Human Body Model: >3 kV

IEC61000-4-2 Contact Discharge: >8 kV

IEC 61000-4-2 Air Discharge: >15 kV

Application

Storage & Peripherals

Other Wired Communications

Mobile Handsets

Wireless LAN Card & Broadband Access

Media Tablets

PMP/MP3 Player

Recommended For You

FPAB20BH60B

ON Semiconductor, LLC

SPMIC-027

FPDB60PH60B

ON Semiconductor, LLC

SPM27

FPF2700MX

ON Semiconductor, LLC

SOP8

FPF2104

ON Semiconductor, LLC

SOT23-5

FPF1003A

ON Semiconductor, LLC

WCLSP-6

FPDB40PH60B

ON Semiconductor, LLC

MODULE

FPF2116

ON Semiconductor, LLC
SOT23-5

FPF2487UCX

ON Semiconductor, LLC
SMD

FPF2195

ON Semiconductor, LLC
WLCSP-6

FPF1038UCX

ON Semiconductor, LLC
WCLSP-6

FPF1320UCX

ON Semiconductor, LLC
WLCSP-6

FPAMB0LH60

ON Semiconductor, LLC
MODULE

FPF2498BUCX

ON Semiconductor, LLC
WLCSP

FPF1204UCX

ON Semiconductor, LLC
WLCSP4

FPF2000

ON Semiconductor, LLC
SOT353