

Power Load Distribution Switch, IntelliMAX, 3.5 V to 5.5 V In, 0.1 A to 2.5 A Adjustable, WLCSP-9

Manufacturers	ON Semiconductor, LLC
Package/Case	WLCSP-9
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for FPF2496UCX or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The FPF2496 advanced load-management switch targets applications requiring a highly integrated solution. It disconnects loads powered from the DC power rail (<6 V) with stringent off-state current targets and high load capacitances (<100 μ F). The FPF2496 consists of a slew-rate controlled low-impedance MOSFET switch (100 m Ω maximum) and integrated analog features. The slew-rate controlled turn-on characteristic prevents inrush current and the resulting excessive voltage droop on power rails. FPF2496 has over-voltage protection and over-temperature protection. The FPF2496 has a True Reverse-Current Blocking (TRCB) function that obstructs unwanted reverse current from VOUT to VIN during ON and OFF states. The exceptionally low off-state current drain (<2 μ A maximum) facilitates compliance with standby power requirements. The input voltage range operates from 3.5 V to 5.5 VDC to support a wide range of applications in consumer, optical, medical, storage, portable, and industrial-device power management systems. Switch control is managed by a logic input (active LOW) capable of interfacing directly with low-voltage control signal / General-Purpose Input / Output (GPIO) without an external pull-down resistor. The device is packaged in advanced, fully “green” compliant, 1.21 mm x 1.21 mm, Wafer-Level Chip-Scale Package (WLCSP).

Features

VIN: 3.5 V~5.5 V

28 V Absolute Ratings at VIN

Current Capability: 2.5 A

Adjustable Current Limit: (Typ.) 0.1 A~2.5 A with 10% Accuracy

RON: Maximum 100 mΩ at 5 VIN and 1 A IOUT

Input OVP>

Output Discharge During Off State

Open-Drain OVP on FLAGB

Thermal Shutdown

Under-Voltage Lockout (UVLO)

True Reverse-Current Blocking (TRCB)

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

Application

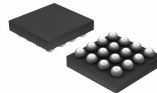
ONSEMI

Related Products



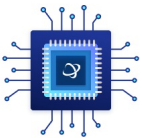
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ON Semiconductor, LLC
WLCSP-4



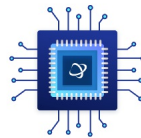
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ON Semiconductor, LLC
12-UFBGA, WLCSP



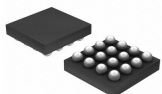
[FPF2215](#)

ON Semiconductor, LLC
MicroFET-6



[FPF1006](#)

ON Semiconductor, LLC
MicroFET-8



[FPF2895CUCX](#)

ON Semiconductor, LLC
24-UFBGA, WLCSP



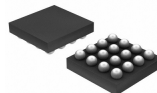
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ON Semiconductor, LLC
MLP-8



[FPF1204UCX-Z006](#)

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WLCSP-4



[FPF1504LUCX](#)

ON Semiconductor, LLC
4-UFBGA, WLCSP