

LTC4419IDD#PBF

Data Sheet

18V Dual Input Micropower PowerPath Prioritizer

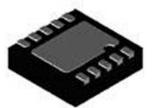
Manufacturers <u>Analog Devices, Inc</u>

Package/Case 10-Lead DFN (3mm x 3mm w/ EP)

Product Type Switches

RoHS

Lifecycle



Images are for reference only

Please submit RFQ for LTC4419IDD#PBF or <u>Emailto:sales@ovaga.com</u> We will contact you in 12 hours.

RFO

General Description

The LTC4419 is a dual input monolithic PowerPathTM prioritizer with low operating current, that provides backup switchover for keeping critical circuitry alive during brown out and power loss conditions. Unlike diode-OR products, little current is drawn from the inactive supply even if its voltage is greater than the active supply.

Internal 2Ω , current limited PMOS switches provide power path selection from a primary input (V1) or a backup input (V2) to the output. An adjustable voltage monitor set via an external resistive divider provides flexibility in setting the V1 to V2 switchover threshold. When primary input V1 drops, the ADJ monitor input causes OUT to be switched to V2. Fast non-overlap switchover circuitry prevents both reverse and cross conduction while minimizing output droop.

The LTC4419 has two auxiliary comparators with open-drain outputs that provide flexible voltage monitoring. The V2ON output indicates if V2 is powering OUT. Freshness seal mode prevents V2 battery discharge during storage or shipment.

Features

Selects Highest Priority Valid Supply from Two Inputs

Wide 1.8V to 18V Operating Range

Internal Dual 2Ω , 0.5A Switches

Low 3.6µA Operating Current

Low 320nA V2 Current When V1 Connected to OUT

Blocks Reverse and Cross Conduction Currents

Reverse Supply Protection to -15V

V2 Freshness Seal/Ship Mode

Two Auxiliary ±2.3% Accurate Voltage Comparators

Overcurrent and Thermal Protection

Thermally Enhanced 10-Pin 3mm × 3mm DFN and 12-Lead Exposed Pad MSOP Packages

Related Products



LT3430IFE

Analog Devices, Inc TSSOP-16



LTC3900ES8

Analog Devices, Inc SOP8



LT1074HVCT7

Analog Devices, Inc TO-220-7



LTC1625IS

Analog Devices, Inc SOP16



Low Power Battery Backup

Portable Equipment

Point-of-Sale (POS) Equipment



LTC3832EGN

Analog Devices, Inc SSOP-16



LT1074IT7

Analog Devices, Inc TO-220-7



LT1158CSW

Analog Devices, Inc SOP16



LTC1625CS

Analog Devices, Inc SOIC-16