

LTC3891EUDC#PBF

Data Sheet

DC/DC Cntrlr Single-OUT Step Down 900kHz Automotive 20-Pin QFN EP Tube

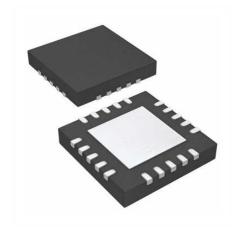
Manufacturers Analog Devices, Inc

Package/Case 20QFN

Product Type Power Management ICs

RoHS

Lifecycle



Images are for reference only

Please submit RFQ for LTC3891EUDC#PBF or <u>Emailto:scales@ovaga.com</u> We will contact you in 12 hours.

RFO

General Description

The LTC3891 is a high performance step-down switching regulator DC/DC controller that drives an all N-channel synchronous power MOSFET stage. A constant frequency current mode architecture allows a phase-lockable frequency of up to 750kHz.

The $50\mu A$ no-load quiescent current extends operating run time in battery-powered systems. OPTI-LOOP® compensation allows the transient response to be optimized over a wide range of output capacitance and ESR values. The LTC3891 features a precision 0.8V reference and power good output indicator. A wide 4V to 60V input supply range encompasses a wide range of intermediate bus voltages and battery chemistries. The output voltage of the LTC3891 can be programmed between 0.8V to 24V.

The TRACK/SS pin ramps the output voltages during start-up. Current foldback limits MOSFET heat dissipation during short-circuit conditions. The PLLIN/MODE pin selects among Burst Mode operation, pulse-skipping mode, or continuous conduction mode at light loads.

Features

Wide VIN Range: 4V to 60V (65V Abs Max)

Low Operating IQ: 50µA

Wide Output Voltage Range: $0.8V \le VOUT \le 24V$

RSENSE or DCR Current Sensing

Phase-Lockable Frequency (75kHz to 750kHz)

Programmable Fixed Frequency (50kHz to 900kHz)

Selectable Continuous, Pulse-Skipping or Low Ripple Burst Mode® Operation at Light Load

Selectable Current Limit

Very Low Dropout Operation: 99% Duty Cycle

Adjustable Output Voltage Soft-Start or Tracking

Power Good Output Voltage Monitor

Output Overvoltage Protection

Low Shutdown IQ: $< 14\mu A$

Internal LDO Powers Gate Drive from VIN or EXTVCC

No Current Foldback During Start-Up

Small 20-Pin 3mm × 4mm QFN and TSSOP Packages

Related Products



LT3763EFE
Analog Devices, Inc



LTC4417IUF

TSSOP28

Analog Devices, Inc QFN-24



LTC1966CMS8#PBF

Analog Devices, Inc MSOP-8P



LT1038CK

Analog Devices, Inc TO-3



LTC3440EMS

Analog Devices, Inc MSOP10



LTC2990IMS#PBF

Analog Devices, Inc 10MSOP

Email: sales@ovaga.com

Battery Powered Digital Devices

Automotive Always-On Systems

Application

Distributed DC Power Systems



LTM8045EY#PBF
Analog Devices, Inc
BGA40



LT4295IUFD#PBF
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28-WFQFN