

DC/DC Cntrlr Dual-OUT Step Down 850kHz Automotive 40-Pin QFN EP Tube

Manufacturers	Analog Devices, Inc
Package/Case	QFN-40
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3855EUJ#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC3855 is a dual PolyPhase® current mode synchronous step-down switching regulator controller that drives all N-channel power MOSFET stages. It includes a high speed differential remote sense amplifier. The maximum current sense voltage is programmable for either 30mV, 50mV or 75mV, allowing the use of either the inductor DCR or a discrete sense resistor as the sensing element.

The LTC3855 features a precision 0.6V reference and can produce output voltages up to 12.5V. A wide 4.5V to 38V input supply range encompasses most intermediate bus voltages and battery chemistries. Power loss and supply noise are minimized by operating the two controller output stages out of phase. Burst Mode® operation, continuous or pulse-skipping modes are supported.

The LTC3855 can be configured for up to 12-phase operation, has DCR temperature compensation, two power good signals and two current limit set pins. The LTC3855 is available in low profile 40-pin 6mm × 6mm QFN and 38-lead exposed pad FE packages.

Features

Dual, 180° Phased Controllers Reduce Required Input Capacitance and Power Supply Induced Noise

High Efficiency: Up to 95%

RSENSE or DCR Current Sensing

Programmable DCR Temperature Compensation

Phase-Lockable Fixed Frequency 250kHz to 770kHz

True Remote Sensing Differential Amplifier

Dual N-Channel MOSFET Synchronous Drive

Wide VIN Range: 4.5V to 38V

VOUT Range: 0.6V to 12.5V without Differential Amplifier

VOUT Range: 0.6V to 3.3V with Differential Amplifier

Clock Input and Output for Up to 12-Phase Operation

Adjustable Soft-Start or VOUT Tracking

Foldback Output Current Limiting

Output Overvoltage Protection

40-Pin (6mm × 6mm) QFN and 38-Lead FE Packages

Application

Computer Systems

Telecom Systems

Industrial and Medical Instruments

DC Power Distribution Systems

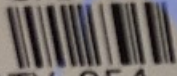
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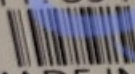
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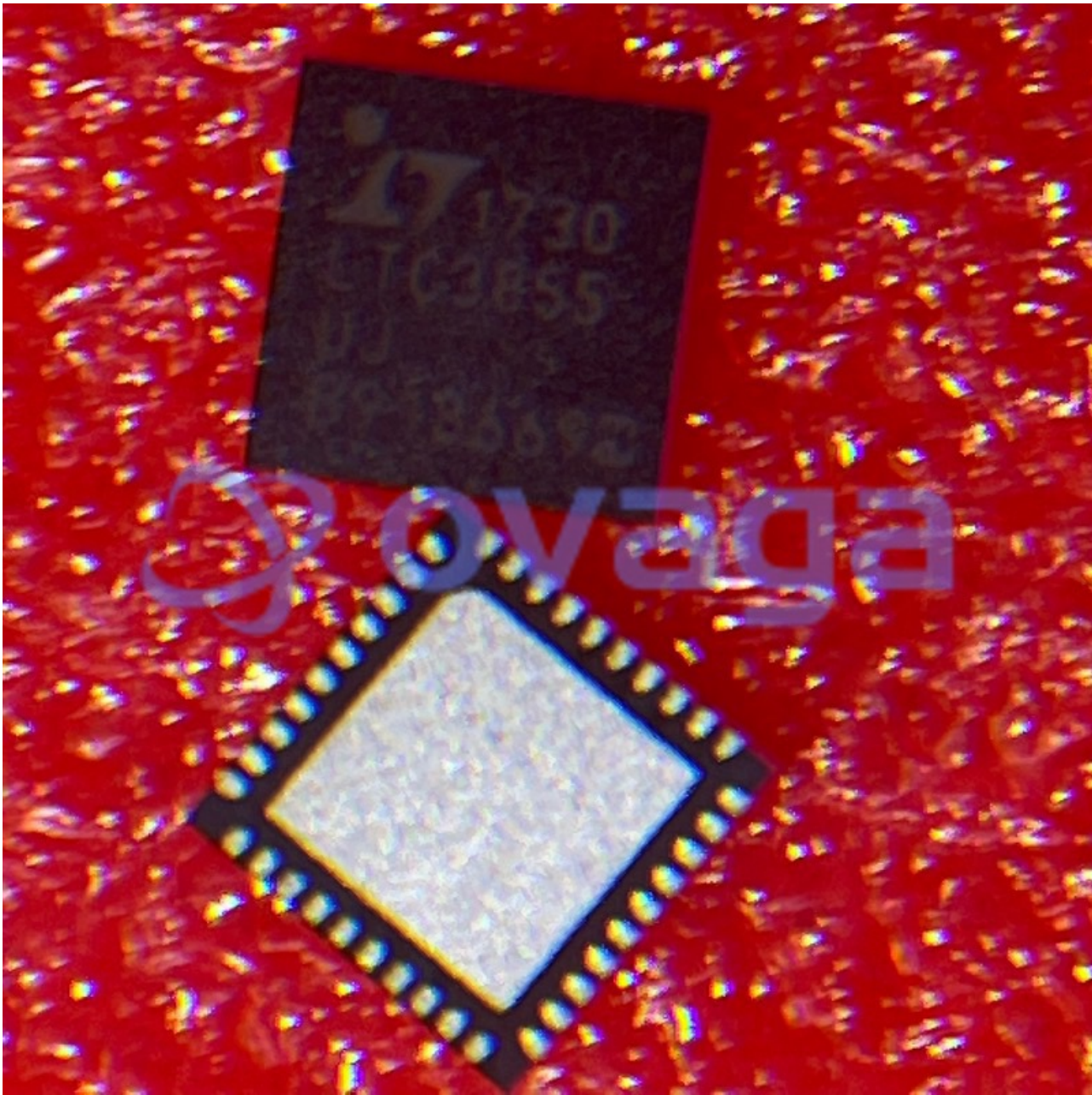


QTY: 854



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