

Controller 5V to 24V Automotive 20-Pin TSSOP EP Tube

Manufacturers	Analog Devices, Inc
Package/Case	TSSOP20 -40 -125
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LT3751EFE#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LT3751 is a high input voltage capable flyback controller designed to rapidly charge a large capacitor to a user-adjustable high target voltage set by the transformer turns ratio and three external resistors. Optionally, a feedback pin can be used to provide a low noise high voltage regulated output.

The LT3751 has an integrated rail-to-rail MOSFET gate driver that allows for efficient operation down to 4.75V. A low 106mV differential current sense threshold voltage accurately limits the peak switch current. Added protection is provided via user-selectable overvoltage and undervoltage lockouts for both VCC and VTRANS. A typical application can charge a 1000 μ F capacitor to 500V in less than one second.

The CHARGE pin is used to initiate a new charge cycle and provides ON/OFF control. The DONE pin indicates when the capacitor has reached its programmed value and the part has stopped charging. The FAULT pin indicates when the LT3751 has shut down due to either VCC or VTRANS voltage exceeding the user-programmed supply tolerances.

Features

Charges Any Size Capacitor

Low Noise Output in Voltage Regulation Mode

Stable Operation Under a No-Load Condition

Integrated 2A MOSFET Gate Driver with Rail-to-Rail Operation for $V_{CC} \leq 8V$

Selectable 5.6V or 10.5V Internal Gate Drive Voltage Clamp

User-Selectable Over/Undervoltage Detect

Easily Adjustable Output Voltage

Primary or Secondary Side Output Voltage Sense

Wide Input VCC Voltage Range (5V to 24V)

Available in 20-Pin QFN 4mm × 5mm and 20-Lead TSSOP Packages

Application

High Voltage Regulated Supply

High Voltage Capacitor Charger

Professional Photoflash Systems

Emergency Strobe

Security/Inventory Control Systems

Detonators

Related Products



[LT3763EFE](#)

Analog Devices, Inc
TSSOP28



[LT1038CK](#)

Analog Devices, Inc
TO-3



[LTC4417IUF](#)

Analog Devices, Inc
QFN-24



[LTC3440EMS](#)

Analog Devices, Inc
MSOP10



[LTC1966CMS8#PBF](#)

Analog Devices, Inc
MSOP-8P



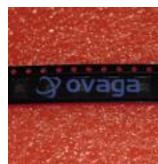
[LTC2990IMS#PBF](#)

Analog Devices, Inc
10MSOP



[LTM8045EY#PBF](#)

Analog Devices, Inc
BGA40



[LT4295IUFD#PBF](#)

Analog Devices, Inc
28-WFQFN