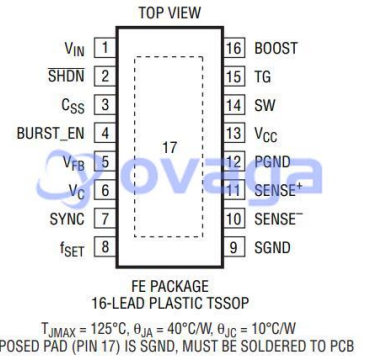


High Voltage, Current Mode Switching Regulator Controller with Programmable Operating Frequency; Package: TSSOP; No of Pins: 16; Temperature Range: -40°C to +125°C

Manufacturers	Analog Devices, Inc
Package/Case	TSSOP-16
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LT3844EFE#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LT3844 is a DC/DC controller used for medium power, low part count, high efficiency supplies. It offers a wide 4V to 60V input range (7.5V minimum startup voltage) and can implement step-down, step-up, inverting and SEPIC topologies.

The LT3844 includes Burst Mode operation, which reduces quiescent current below 120µA and maintains high efficiency at light loads. An internal high voltage bias regulator allows for simple biasing.

Additional features include current mode control for fast line and load transient response; programmable fixed operating frequency that can be synchronized to an external clock for noise sensitive applications; a gate driver capable of driving large N-channel MOSFETs; a precision undervoltage lockout function; 10µA shutdown current; short-circuit protection and a programmable soft-start function.

The LT3844 is available in a 16-lead thermally enhanced TSSOP package.

Features

High Voltage Operation: Up to 60V

Output Voltages up to 36V (Step-Down)

Programmable Constant Frequency: 100kHz to 500kHz

Synchronizable up to 600kHz

Burst Mode® Operation: 120µA Supply Current

10µA Shutdown Supply Current

Drives N-Channel MOSFET

Programmable Soft-Start

Programmable Undervoltage Lockout

Internal High Voltage Regulator for Gate Drive

Thermal Shutdown

Current Limit Unaffected by Duty Cycle

16-Pin Thermally Enhanced TSSOP Package

Application

Industrial Power Distribution

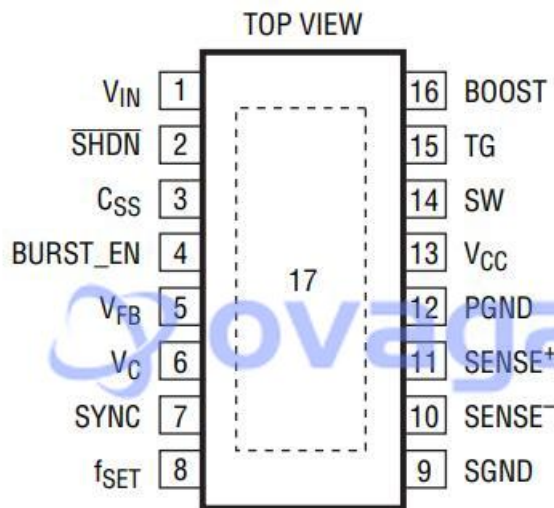
12V and 42V Automotive and Heavy Equipment

High Voltage Single Board Systems

Distributed Power Systems

Avionics

Telecom Power



FE PACKAGE
16-LEAD PLASTIC TSSOP

$T_{JMAX} = 125^{\circ}\text{C}$, $\theta_{JA} = 40^{\circ}\text{C/W}$, $\theta_{JC} = 10^{\circ}\text{C/W}$
EXPOSED PAD (PIN 17) IS SGND, MUST BE SOLDERED TO PCB



[LTM8045EY#PBF](#)

Analog Devices, Inc

BGA40



[LT4295IUFD#PBF](#)

Analog Devices, Inc

28-WFQFN