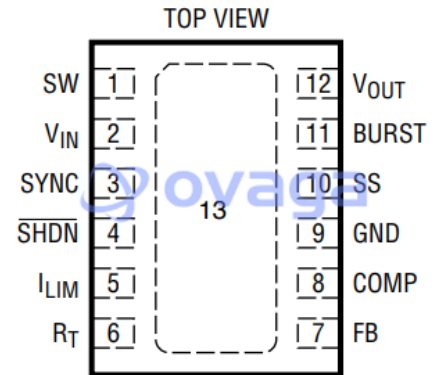


1.4A, 1.5MHz Synchronous Step-Up DC/DC Converter with Output Disconnect; Package: DFN; No of Pins: 12; Temperature Range: -40°C to +125°C

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	QFN12
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3458EDE#TRPBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTC3458 is a high efficiency, current mode, fixed frequency, step up DC/DC converter with true output disconnect and inrush current limiting. The LTC3458 is rated for a 7.5V output and includes a 0.3Ω N-channel MOSFET switch and a 0.4Ω P-channel MOSFET synchronous rectifier. The LTC3458 is well suited for battery powered applications and includes programmable output voltage, switching frequency and loop compensation. The oscillator frequency can be set up to 1.5MHz or synchronized to an external clock.

Quiescent current is only 15μA during Burst Mode operation maximizing battery life in portable applications. The Burst Mode current threshold, peak current limit, and softstart are externally programmable. Other features include <1μA shutdown current, antiringing control, and thermal limit. The LTC3458 is available in a low profile (0.75mm), 3mm × 4mm 12-pin DFN package.

Vout RangeSwitch CurrentLTC34582.0V to 7.5V1.4ALTC3458L2.0V to 6.0V1.7A

## Features

High Efficiency: Up to 93%

Inrush Current Limiting and Output Disconnect

Programmable Output Voltages up to 7.5V

1.5V to 6V Input Range

Programmable/Synchronizable Fixed Frequency Operation up to 1.5MHz

Programmable Automatic Burst Mode® Operation

Current Mode Control with Programmable Soft-Start Period and Peak Current Limit

700mA at 7V from 5V Input

0.3Ω N-Channel and 0.4Ω P-Channel 1.4A Switches at 5V<sub>OUT</sub>

Ultralow Quiescent Currents: 15μA Sleep, <1μA in Shutdown

3mm × 4mm Thermally Enhanced DFN Package

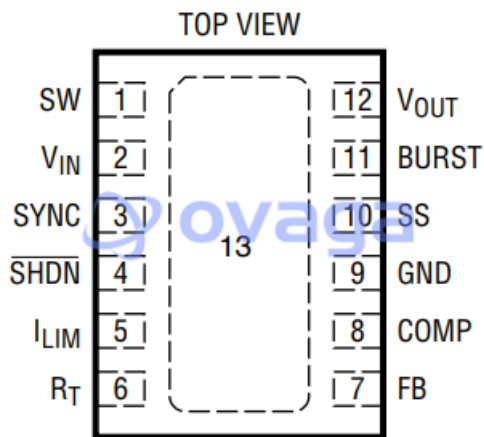
## Application

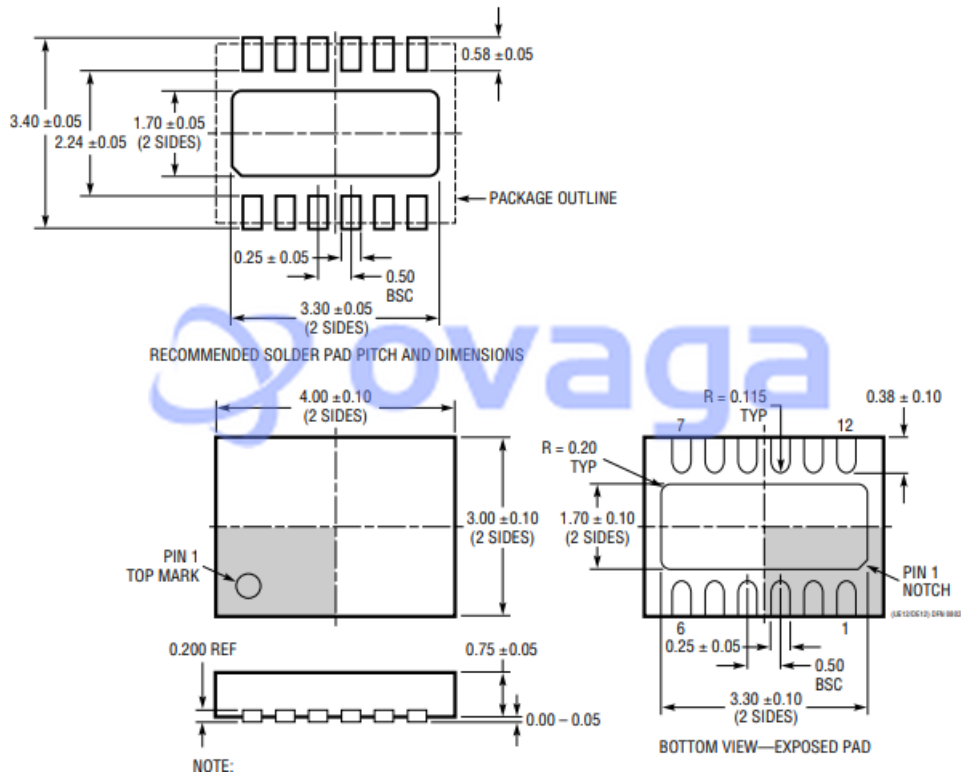
Point-of-Load Regulators

USB VBUS Power

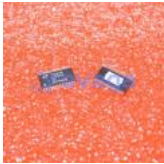
LCD Bias

OLED Displays





## Related Products



### [LT3763EFE](#)

Analog Devices, Inc  
TSSOP28



### [LTC4417IUF](#)

Analog Devices, Inc  
QFN-24



### [LTC1966CMS8#PBF](#)

Analog Devices, Inc  
MSOP-8P



### [LTM8045EX#PBF](#)

Analog Devices, Inc  
BGA40



### [LT1038CK](#)

Analog Devices, Inc  
TO-3



### [LTC3440EMS](#)

Analog Devices, Inc  
MSOP10



### [LTC2990IMS#PBF](#)

Analog Devices, Inc  
10MSOP



### [LT4295IUFD#PBF](#)

Analog Devices, Inc  
28-WFQFN