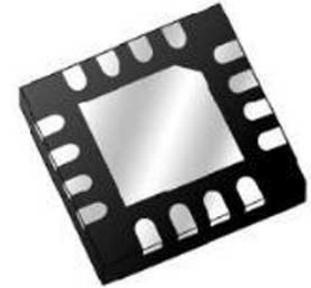


90V Boost DC/DC Converter with APD Bias Current Monitor; Package: QFN; No of Pins: 16; Temperature Range: -40°C to +125°C

Manufacturers	Analog Devices, Inc
Package/Case	QFN16
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LT3482IUD#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LT3482 is a fixed frequency current mode step-up DC/DC converter with voltage doubler designed to bias avalanche photodiodes (APDs) in optical receivers. It can provide up to 90V output. The LT3482 features high side APD bias current monitoring with better than 10% relative accuracy over the entire temperature range. The integrated power switch, Schottky diodes and APD bias current monitor allow a small converter footprint and low solution cost. Constant switching frequency results in predictable output noise that is easy to filter. The inductor-based topology ensures an input free from switching noise. An integrated high side current monitor produces a current proportional to APD bias current with better than 10% relative accuracy over four decades of dynamic range in the input range of 250nA to 2.5mA. This APD bias current can be used as a reference to provide a digitally programmed output voltage via the CTRL pin. The LT3482 is available in the tiny footprint (3mm × 3mm) 16-lead QFN package.

Features

High Output Voltage: Up to 90V

Integrated Schottky Diodes

48V, 280mA Internal Switch

High Side APD Current Monitor

Adjustable Switching Frequency: 650kHz or 1.1MHz

Wide VIN Range: 2.5V to 16V

Surface Mount Components

Low Shutdown Current: <1μA

Soft-Start

Internal Compensation

CTRL Pin Allows Output Adjustment with No Polarity Inversion

3mm × 3mm 16-Lead QFN Package

Application

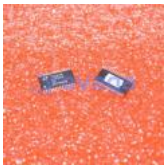
APD Bias

PIN Diode Bias

Optical Receivers and Modules

Fiber Optic Network Equipment

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