
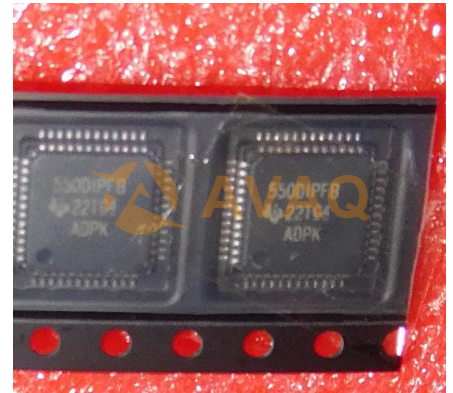


UART 1-CH 16byte FIFO 2.5V/3.3V/5V 48-Pin TQFP T/R

Manufacturer:	<u>Texas Instruments, Inc</u>
Package/Case:	48-TQFP
Product Type:	Drivers
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The LM3406 family are monolithic switching regulators designed to deliver constant currents to high power LEDs. Ideal for automotive, industrial, and general lighting applications, they contain a high-side N-channel MOSFET switch with a current limit of 2.0A (typical) for step-down (Buck) regulators. Controlled on-time with true average current and an external current sense resistor allow the converter output voltage to adjust as needed to deliver a constant current to series and series-parallel connected LED arrays of varying number and type. LED dimming via pulse width modulation (PWM) is achieved using a dedicated logic pin or by PWM of the power input voltage. The product feature set is rounded out with low-power shutdown and thermal shutdown protection.

Key Features

LM3406HV-Q1
Automotive Grade Device

AEC-Q100 Grade 1 Qualified

Operating Ambient Temperature: -40°C to 125°C

Integrated 2.0A MOSFET

V_{IN} Range 6V to 42V (LM3406)

V_{IN} Range 6V to 75V (LM3406HV)

V_{IN} Range 6V to 75V (LM3406HV-Q1)

True Average Output Current Control

1.7A Minimum Output Current Limit Over Temperature

Cycle-by-Cycle Current Limit

PWM Dimming with Dedicated Logic Input

PWM Dimming with Power Input Voltage

Simple Control Loop Compensation

Low Power Shutdown

Supports All-Ceramic Output Capacitors and Capacitor-less Outputs

Thermal Shutdown Protection

TSSOP-14 Package



Recommended For You

TLV320AIC23BIPWR

Texas Instruments, Inc
TSSOP28

TLV320AIC3104IRHBR

Texas Instruments, Inc
QFN32

TL16C554AIPN

Texas Instruments, Inc
LQFP80

TLV320AIC3101IRHBR

Texas Instruments, Inc
QFN32

TL16C554APN

Texas Instruments, Inc
LQFP80

TLV320AIC24KIPFBR

Texas Instruments, Inc
TQFP-48

TL16C554PN

Texas Instruments, Inc
QFP

TLV320AIC24KIPFB

Texas Instruments, Inc
TQFP-48

TL16C752BLPTREP

Texas Instruments, Inc
LQFP-48

TLC320AC01CFN

Texas Instruments, Inc
PLCC28

TL16C552AFN

Texas Instruments, Inc
PLCC

TL16C450FN

Texas Instruments, Inc
PLCC44

TL16C554FN

Texas Instruments, Inc
PLCC

TLV320AIC311RHBR

Texas Instruments, Inc
VQFN32

TLV320AIC3100IRHBR

Texas Instruments, Inc
QFN32