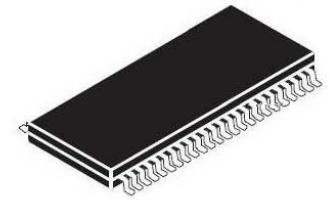


LED DRVR 5V/9V/12V/15V/18V/24V 14-Pin HTSSOP EP**Tube**

Images are for reference only

[Inquiry](#)**Manufacturer:** [Texas Instruments, Inc](#)**Package/Case:** HTSSOP14**Product Type:** Optoelectronics**RoHS:** RoHS Compliant/Lead free **Lifecycle:** Active**General Description**

The LM3429 is a versatile high voltage N-channel MosFET controller for LED drivers. It can be easily configured in buck, boost, buck-boost and SEPIC topologies. This flexibility, along with an input voltage rating of 75V, makes the LM3429 ideal for illuminating LEDs in a very diverse, large family of applications.

Adjustable high-side current sense voltage allows for tight regulation of the LED current with the highest efficiency possible. The LM3429 uses Predictive Off-time (PRO) control, which is a combination of peak current-mode control and a predictive off-timer. This method of control eases the design of loop compensation while providing inherent input voltage feed-forward compensation.

The LM3429 includes a high-voltage startup regulator that operates over a wide input range of 4.5 V to 75 V. The internal PWM controller is designed for adjustable switching frequencies of up to 2 MHz, thus enabling compact solutions. Additional features include analog dimming, PWM dimming, overvoltage protection, undervoltage lock-out, cycle-by-cycle current limit, and thermal shutdown.

Key Features

LM3429-Q1 is AEC-Q100 Grade 1 Qualified for Automotive Applications

V_{IN} Range From 4.5 V to 75 V

Adjustable Current Sense Voltage

High-Side Current Sensing

2- Ω , 1-A Peak MosFET Gate Driver

Input Undervoltage Protection

Overvoltage Protection

PWM Dimming

Analog Dimming

Cycle-by-Cycle Current Limit

Programmable Switching Frequency

Low Profile 14-lead HTSSOP Package

Thermal Shutdown

Recommended For You

LM2438T

Texas Instruments, Inc

TO-220-9

LMB409HVMY/NOPB

Texas Instruments, Inc

MSOP10

LMB429Q1MHX/NOPB

Texas Instruments, Inc

HTSSOP14

LMB409MY/NOPB

Texas Instruments, Inc

MSOP10

LMB509SD/NOPB

Texas Instruments, Inc

QFN

LMB406HVMHX/NOPB

Texas Instruments, Inc

TSSOP14

LMB409MYX/NOPB

Texas Instruments, Inc

MSOP10

LMB405AXMY/NOPB

Texas Instruments, Inc

HVSSOP8

LM2406T

Texas Instruments, Inc

ZIP11

LM2415T

Texas Instruments, Inc

ZIP11

LM2469TA

Texas Instruments, Inc

TO-220-9

LM2468TA

Texas Instruments, Inc

TO-220

LM2467TA

Texas Instruments, Inc

TO-220-9

LM2407T

Texas Instruments, Inc

ZIP11

LMB410XMF/NOPB

Texas Instruments, Inc

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