

LM3409HVMY/NOPB

LED Driver 2000uA Supply Current 10-Pin HVSSOP EP T/R

Manufacturer: <u>Texas Instruments, Inc</u>

Package/Case: MSOP10

Product Type: Optoelectronics

RoHS: RoHS Compliant/Lead free RoHS

Lifecycle: Active



Images are for reference only

Inquiry

General Description

The LM3409, LM3409-Q1, LM3409HV, and LM3409HV-Q1 are P-channel MOSFET (PFET) controllers for step-down (buck) current regulators. They offer wide input voltage range, high-side differential current sense with low adjustable threshold voltage and fast output enable/disable function and a thermally enhanced 10-pin, HVSSOP package. These features combine to make the LM3409 family of devices ideal for use as constant current sources for driving LEDs where forward currents up to 5 A are easily achievable.

The LM3409 devices use constant off-time (COFT) control to regulate an accurate constant current without the need for external control loop compensation. Analog and PWM dimming are easy to implement and result in a highly linear dimming range with excellent achievable contrast ratios. Programmable UVLO, low-power shutdown, and thermal shutdown complete the feature set.

For all available packages, see the orderable addendum at the end of the data sheet.

Key Features

LM3409-Q1 and LM3409HV-Q1 are Automotive Grade Products: AEC-Q100 Grade 1 Qualified

2-, 1-A Peak MOSFET Gate Drive

V_{IN} Range: 6 V to 42 V (LM3409, LM3409-Q1)

V_{IN} Range: 6 V to 75 V (LM3409HV, LM3409HV-Q1)

Differential, High-Side Current Sense

Cycle-by-Cycle Current Limit

No Control Loop Compensation Required

10,000:1 PWM Dimming Range

250:1 Analog Dimming Range

Supports All-Ceramic Output Capacitors and Capacitor-less Outputs

Low-Power Shutdown and Thermal Shutdown

Thermally Enhanced 10-Pin, HVSSOP Package



Recommended For You

LM2438T

Texas Instruments, Inc

TO-220-9

LM3429Q1MHX/NOPB

Texas Instruments, Inc

HTSSOP14

LM3409MY/NOPB

Texas Instruments, Inc

MSOP10

LM3509SD/NOPB

Texas Instruments, Inc

QFN

LM3406HVMHX/NOPB

Texas Instruments, Inc

TSSOP14

LM3409MYX/NOPB

Texas Instruments, Inc

MSOP10

LM3405AXMY/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

LM3410XMF/NOPB

Texas Instruments, Inc

SOT23-5

LM2437T

Texas Instruments, Inc

TO-220-9