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PSOP-8 Evaluation board

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Key Document

 [AN-1585 LM3402 and LM3404 High Power PSOP-8 Evaluation Board \(Rev. C\)](#) (PDF 179 KB)
01 May 2013 322 views [Read Abstract](#)

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Description

The LM3402/02HV and LM3404/04HV are buck regulator derived controlled current sources designed to drive a series string of high power, high brightness LEDs (HBLEDs) such as the Luxeon™ K2 Emitter at forward currents of up to 0.5A (LM3402/02HV) or 1.0A (LM3404/04HV). This evaluation board demonstrates the enhanced thermal performance of the PSOP-8 package option of any of those four ICs. The LM3404HV was chosen for the example circuit because the combination of high output current, high input voltage, and high duty cycle create the greatest demand for low junction-to-ambient thermal resistance (Θ_{JA}). Note that the LM3404/04HV in SO-8 can also be used with this evaluation board, with reduced thermal performance.

Features

- Integrated 1.0A MOSFET
- V_{IN} Range 6V to 42V (LM3404)
- V_{IN} Range 6V to 75V (LM3404HV)
- 1.2A Output Current Over Temperature
- Cycle-by-Cycle Current Limit
- No Control Loop Compensation Required
- Separate PWM Dimming and Low Power Shutdown
- Supports All-Ceramic Output Capacitors and Capacitor-Less Outputs
- Thermal Shutdown Protection
- SO-8 Package, PSOP-8 Package

Applications:

- LED Driver
- Constant Current Source
- Automotive Lighting
- General Illumination
- Industrial Lighting

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Part Number	Buy from Texas Instruments or Third Party	Buy from Authorized Distributor	Status
LM3404MREVAL: LM3402 LM3404 High Power PSOP-8 Evaluation board	<p>(USD)</p> <p>In Stock</p> <p>Typically Ships in 1 to 3 Business Days</p> <p>In Stock</p> <p>Typically Ships in 1 to 3 Business Days</p> <p>Buy from TI</p>	<p>Pricing may vary.</p> <p>Buy from distributor</p>	ACTIVE

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Technical Documents

User guides (2)

Title	Abstract	Type	Size (KB)	Date	Views	TI Recommends
AN-1585 LM3402 and LM3404 High Power PSOP-8 Evaluation Board (Rev. C)	Read Abstract	PDF	179	01 May 2013	322	✓
LM3404 Driving a Seoul Semi Zpower P4 1A LED User Guide		PDF	476	27 Jan 2012	151	

Related Products

Software (1)

 [LM3404 Driving a Seoul Semi Zpower P4 1A LED CAD File](#)
(ZIP, 212KB) 86 views, 27 Jan 2012

TI Devices (4)

Part Number	Name	Product Family
LM3402	0.5A Constant Current Buck Regulator for High Power LED Drivers	LED Driver
LM3402HV	0.5A Constant Current Buck Regulator for High Power LED Drivers	LED Driver
LM3404	1.0A Constant Current Buck Regulator for High Power LED Drivers	LED Driver
LM3404HV	1.0A Constant Current Buck Regulator for High Power LED Drivers	LED Driver

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