SEPIC LED Driver Evaluation Board for Automotive Applications

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Key Document

- LM3421 SEPIC LED Driver Evaluation Board for Automotive Applications (Rev. B) (PDF 15779 KB)
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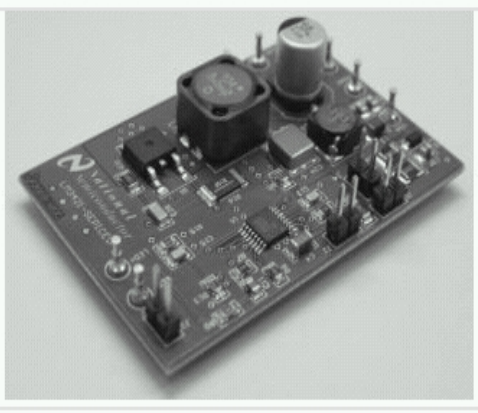

Description

This application note describes an evaluation board consisting of the LM3421 controller configured as a SEPIC constant current LED driver. It is capable of converting input voltages from 8V to 18V and illuminating up to six LEDs with approximately 350 mA of drive current.

Additional features include analog and pulse-width modulated (PWM) dimming, over-voltage protection, under-voltage lockout and cycle-by-cycle current limit. A bill of materials is included that describes the parts used in this evaluation board. A schematic and layout have also been included along with measured performance characteristics.

Features

- Designed to CISPR-25, Class 3 limits
- 0 to 10V analog dimming function
- PWM dimming function
- Input under-voltage protection
- Over-voltage protection
- Cycle-by-cycle current limit
- NoPB and RoHS compliant bill of materials

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Part Number	Buy from Texas Instruments or Third Party	Buy from Authorized Distributor	Status	Lead-Free	RoHS
LM3421-SEPICEV/NOPB: SEPIC LED Driver Evaluation Board for Automotive Applications	$149.00(USD) Out of stock Available for Backorders Buy from TI	Pricing may vary. Buy from distributor	ACTIVE	Yes	Yes

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Technical Documents

Application Notes (1)

Title	Abstract	Type	Size (KB)	Date	Views
AN-1982 Small, Wide Input Voltage Range LM2842 Keeps LEDs Cool (Rev. A)	Read Abstract	PDF	60	23 Apr 2013	597

User Guides (8)

Title	Abstract	Type	Size (KB)	Date	Views	TI Recommends
LM3421 SEPIC LED Driver Evaluation Board for Automotive Applications (Rev. B)	Read Abstract	PDF	15779	03 May 2013	286	✓
AN-2011 LM3423 Boost 2 Layer Evaluation Board (Rev. A)	Read Abstract	PDF	401	03 May 2013	166	
AN-2010 LM3423 Buck-Boost 2 Layer Evaluation Board (Rev. C)	Read Abstract	PDF	585	03 May 2013	180	
AN-1986 LM3429 Boost Evaluation Board (Rev. B)	Read Abstract	PDF	501	03 May 2013	355	
AN-1985 LM3429 Buck-Boost Evaluation Board (Rev. C)	Read Abstract	PDF	1412	03 May 2013	434	
AN-1969 LM3424 Boost Evaluation Board (Rev. A)	Read Abstract	PDF	581	03 May 2013	146	
AN-1967 LM3424 Buck-Boost Evaluation Board (Rev. A)	Read Abstract	PDF	573	03 May 2013	120	
AN-1907 LM3423 Buck-Boost Configuration Evaluation Board (Rev. A)	Read Abstract	PDF	670	01 May 2013	100	

Related Products

TI Devices (2)

Part Number	Name	Product Family
LM3421	N-Channel Controllers for Constant Current LED Drivers	LED Driver
LM3421-Q1	N-Channel Controllers for Constant Current LED Drivers	LED Driver

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