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TPS54140 42V Input, 3.3V Output, 1.5A Evaluation Module

(ACTIVE) TPS54140EVM-429

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Description

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The TPS54140EVM-429 evaluation module is designed to demonstrate the small printed-circuit-board areas that may be achieved when designing with the TPS54140 regulator. The TPS54140 dc/dc converter is designed to provide up to a 1.5 A output from an input voltage source of 3.5 V to 42 V. Rated input voltage and output current range for the evaluation module are given in Table 1. The switching frequency is externally set at a nominal 500 kHz. The high-side MOSFET is incorporated inside the TPS54140 package along with the gate drive circuitry. The low drain-to-source on resistance of the MOSFET allows the TPS54140 to achieve high efficiencies and helps keep the junction temperature low at high output currents. The compensation components are external to the integrated circuit (IC), and an external divider allows for an adjustable output voltage. Additionally, the TPS54140 provides adjustable slow start and undervoltage lockout inputs. The absolute maximum input voltage is 42 V for the TPS54140EVM-429.

What's Included

- SLVU285, TPS54140EVM-429 1.5 A, SWIFT Regulator Evaluation Module
- SLVS889, TPS54140 1.5-A, 42-V Step-Down DC-DC Converter With Eco-mode™ (Rev. C)

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Part Number	Buy from Texas Instruments or Third Party	Buy from Authorized Distributor	Status	Vout (V)	Iout (Max) (A)	Vin (Min) (V)	Vin (Max) (V)	Lead-Free	RoHS	REACH	WEEE	HI-V (>50VRMS/75 VDC)	CE	CE-EMC	CE-RTTE/LVD	FCC	Batteries	Enclosure	Ext Power Supply
TPS54140EVM-429: 1.5A, 25V to 42V Input SWIFT(tm) Converter Evaluation Module	\$25.00(USD) In Stock Typically Ships in 1 to 3 Business Days Buy from TI Use Online	Pricing may vary. Buy from distributor	ACTIVE	3.3	1.5	25	42	Yes	Yes	Yes	NA	NA	NA	NA	NA	NA	No	No	No

Contact a Distributor

i TI's Standard Terms and Conditions for Evaluation Modules apply.

Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
TPS54140EVM-429 1.5 A, SWIFT Regulator Evaluation Module		PDF	880	19 Mar 2008	197

Related Products

Development Tools (1)

Name	Part Number	Tool Type
SwitcherPro(TM) Switching Power Supply Design Tool	SWITCHERPRO	Circuit Design & Simulation

TI Devices (2)

Part Number	Name	Product Family
TPS54140	3.5V to 42V Input, 1.5A Step-Down Converter with Eco-Mode	Converter (Integrated Switch)
TPS54140A	3.5V to 42V Input, 1.5A Step-Down Converter with Eco-Mode	Converter (Integrated Switch)

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SimpleLink™ Wi-Fi CC3100 and CC3200 Project 0 Series - 5 Part Series Learn about using Software Tools for SimpleLink™ Wi-Fi CC3100 Boosterpack and CC3200 Launchpad	On-Line Training	On Demand
TI-RTOS Update Learn about the latest TI-RTOS features and more in-depth understanding of this TI software tool.	On-Line Training	On Demand
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