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XRP7657

2A, 25V Non Synchronous PWM Step Down Regulator

Features

- 2A Constant Output Current
- 4.75V to 25V Wide Input Voltage
- PVVM Voltage Mode Control
 - O 420kHz Constant Operations
 - O Up to 94% Efficiency
- Adjustable Output Voltage
 - O 0.8V to 21V Range
 - O 2% Accuracy
- Soft-Start and Enable Function
- . Built-in Thermal, Over Current and Output Short Circuit Protection
- · RoHS Compliant, "Green"/Halogen Free 8-Pin SOIC Package

Applications

- Distributed Power Architectures
- · Point of Load Converters
- · Audio-Video Equipments
- · Medical & Industrial Equipments

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lout(mA)	2000
Vin MIN. (V)	4.75
Vin MAX. (V)	25
IQ (μA)	1300
Freq (kHz)	420
Efficiency(%)	94

▶ Documents



Block Diagram

Datasheets

Datasheet

Version 2.0.0

February 2011 323.61 KB

Manuals

Evaluation Board Manual

Version 1.0.0

September 2009

492.07 KB

Description

The XRP7657 is a non synchronous voltage mode PVMM step down (buck) regulator capable of a constant output current up to 2Amps. A wide 4.75V to 25V input voltage range allows for single supply operations from industry standard 5V, 12V and 24V power rails.

With a 420kHz constant operating frequency and integrated high side switch, the XRP7657 reduces the overall component count and solution footprint. In addition to a 2% output setpoint accuracy, this device provides high efficiency, low ripple and excellent line and load regulation. An enable function and soft start feature allow for controlled power up sequencing implementation. Built-in over current, output short-circuit and over temperature protection insure safe operations under abnormal operating conditions.

The XRP7657 is offered in a RoHS compliant, "green"/halogen free 8-pin SOIC package.

Part Number	Pkg Code	RoHS	Min Temp. (°C)	Max Temp. (°C)	Status	Buy Now	Order Samples
XRP7657EDTR-F	NSOIC8		-40	85	Active		(A)
XRP7657EVB	<u>Board</u>	7	-40	85	Active		Q

Related News

• 10/12/2009 - Exar Expands its PowerBloxTM Line of High Voltage, High Current Step Down Converters

Part Status Legend

Active - the part is released for sale, standard product.

EOL (End of Life) - the part is no longer being manufactured, there may or may not be inventory still in stock.

CF (Contact Factory) - the part is still active but customers should check with the factory for availability. Longer lead-times may apply.

PRE (Pre-introduction) - the part has not been introduced or the part number is an early version available for sample only.

OBS (Obsolete) - the part is no longer being manufactured and may not be ordered.

NRND (Not Recommended for New Designs) - the part is not recommended for new designs.