Voltage Mode Active Clamp Controller

(ACTIVE) LM5027MH-EVAL

National Products from Texas Instruments

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Key Document

- AN-1976 LM5027 Evaluation Board (Rev. B) (PDF 975 KB)
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Description

The LM5027 evaluation board is designed to provide the design engineer with a fully functional power converter based on the Active Clamp Forward topology to evaluate the LM5027 controller. The evaluation board is provided in an industry standard quarter-brick footprint.

The printed circuit board consists of 6 layers of 2 ounce copper on FR4 material with a total thickness of 0.050 inches.

The unit is designed for continuous operation at rated load at <40°C and a minimum airflow of 200 CFM.

Features

- Input Operating Range: 36 to 78V (100V peak)
- Output Voltage: 3.3V
- Output Current: 0 to 30A
- Measured Efficiency: 90.5% @ 30A, 92.5% @ 15A
- Frequency of Operation: 250 kHz
- Board Size: 2.3 X 1.45 x 0.5 inches
- Load Regulation: 1%
- Line Regulation: 0.1%
- Line UVLO, Hiccup Current Limit

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Part Number	Buy from Texas Instruments	Buy from Authorized Distributor	Status	Lead-Free	RoHS
LM5027MH-EVAL/NOPB: Voltage Mode Active Clamp Controller	$149.00(US$) In Stock Ships in 24 to 48 hours Buy from TI	Pricing may vary. Buy from distributor	ACTIVE	Yes	Yes

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Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views	TI Recommends
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Part Number	Name	Product Family
LM5027	Voltage Mode Active Clamp Controller	AC/DC and Isolated DC/DC Power Supply

Videos

LM5023 Quasi-resonant operation demo

Terry demonstrates the quasi-resonant mode operation of the LM5023 flyback controller which reduces switching losses and improves active efficiency.

Posted: 19-Mar-2013
Duration: 4:22
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Tags: quasi-resonant controller, pwm controller, ultra-low standby power, lm5023

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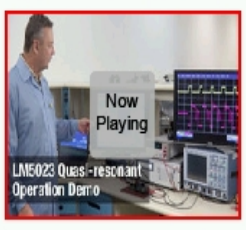

LM5023 Quasi-resonant operation demo

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