

(ACTIVE) PMP10397

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This design uses low cost primary side regulation (PSR) IC UCC28722 with a bipolar transistor for ultra-wide input range applications (85VAC to 528VAC). Two outputs with separated grounds, 5V/0.3A and 16.5V/0.1A are generated.

- Ultra-wide AC input range: 85VAC-528VAC
- Dual Output with separated grounds, 5V/0.3A and 16.5V/0.1A
- 3W Maximum output power rating at efficiency of 63.6% at 85VAC, 61.7% at 528VAC
- Low cost, 800V bipolar transistor as primary switch for Flyback converter
- Total 18% output cross-regulation on 5V rail, from no load to full-load
- Total 13% output cross-regulation on 15V rail, from no load to full-load



85VAC to 528VAC 3W BJT Flyback for Motor Drive - top view

Fully assembled board (shown above) developed for testing and performance validation only, not available for sale.

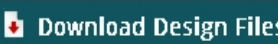
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	PMP10397
V _{in} (Min) (V)	85
V _{in} (Max) (V)	528
V _{out} (Nom) (V)	5
I _{out} (Max) (A)	.3
Output Power	1.5
Isolated/Non-Isolated	Isolated
Input Type	AC
Topology	Flyback- Quasi Resonant

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Part Number	Name	Product Family	Sample & Buy	Design Kits & Evaluation Modules
UCC28722	Low Cost CVCC Flyback Controller with Primary-Side Regulation for Bipolar Power Device	AC/DC and Isolated DC/DC Power Supply	Sample & Buy	View Design Kits & Evaluation Modules

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
PMP10397 Test Results		PDF	839	25 Sep 2014	22

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PMP10397 Gerber		ZIP	184	25 Sep 2014	5
PMP10397 PCB		PDF	200	25 Sep 2014	7
PMP10397 Assembly Drawing		PDF	61	25 Sep 2014	5
PMP10397 BOM		PDF	114	25 Sep 2014	14
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