

Know How Guide PAM2401

1.0MHZ STEP-UP DC-DC CONVERTER



Features	Benefits		
True Output Disconnect	To avoid leakage power on output		
Programmable Over Current Protection	To prevent the damage from the high curre		
Power Good Indicator	Support system power sequence		
Pulse Sipping Mode at Light Load Operation	Increasing efficiency at light load		
Fixed Frequency Operation Up to 1MHz	Reduce external components sizes		
Integrated OVP/OTP	To make sure a stable output voltage, Vo is over 5.7V or once junction temperature exceeds 160°C (Typ.), PAM2401 will turn-off output.		

PAM2401

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Functional Description

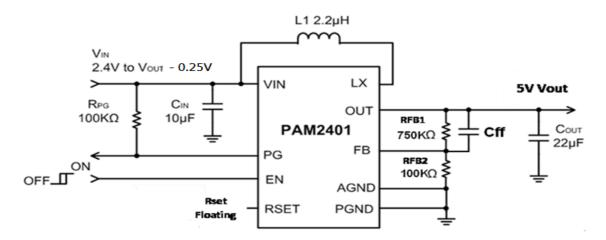
The PAM2401 is a high efficiency, current mode, fixed frequency, step-up DC-DC converter with true output disconnect and in-rush current limiting. The device includes one 0.10© N-channel MOSFET switch and one 0.15© P-channel synchronous rectifier. This product has the ability to simply program the output voltage from 2.5V to 5V.The switching frequency is 1.0MHz, programmable current limit set by an external resistor from 1.0A to 3.0A with internal soft-start.

The PAM2401 automatically enters into PSM to improve the efficiency which maximizes battery life in portable applications.

Quiescent current is only 150µA during Pulse Skip Mode operation, maximizing battery life in portable applications. Other features include: <1µA shutdown, anti-ringing control, Hiccup mode at short protection, over voltage protection and over temperature protection.

The PAM2401 is available in MSOP-8 and U-DFN3030-12 packages

Application Information



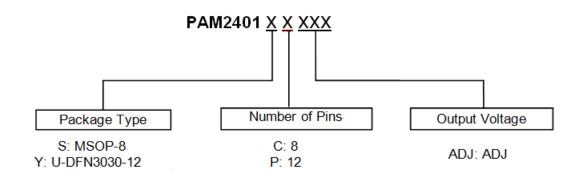
Opportunity qualification

- 1. Step up converter requirement
- 2. Low Voltage input and Vout under 5.5V
- 3. High current application and care board space

PAM2401 1.0MHZ STEP-UP DC-DC CONVERTER

Pricing and Ordering Information

Device	Package	Price @ 5k	Reel size	Quantity
PAM2401SCADJ	MSOP-8	0.3	13"	2,500
PAM2401YPADJ	U-DFN3030- 12	0.33	13	3,000



Support Datasheet – Located on Diodes Web – Samples – available through Samples@diodes.com