



LC2312

REV1.0-Revised DEC 2007

20V,2A Step Down Converter

DESCRIPTION

The LC2312 is a monolithic step-down DC to DC converter. The LC2312 works from a 4.75V to 20V input voltage range, and offers up to 2A of continuous output current in a compact SOIC 8 package.

The LC2312 operates in voltage mode. Lower quiescent current and wider operating input-voltage range are implemented by Belling's high-voltage BiCMOS-based technology. Alternative PWM/PFM control technique significantly improves the efficiency for both light load and heavy load.

The LC2312 also integrates soft-start, over load protection and under voltage lockout protection etc., which minimized external components and converter size.

FEATURES

- Built-in 90mΩ P-Channel MOSFET
- Wide 4.75~20V Input Voltage Range
- Adaptive PWM/PFM Operation Mode
- Up to 95% Efficiency
- Built-in Soft-Start Function
- Fault Protection (Auto Recovery Mode)
- <1μA Shutdown Current and 350μA Quiescent Current
- Low Temperature-Drift Coefficient of Bandgap Voltage
- Demo Board Available

APPLICATIONS

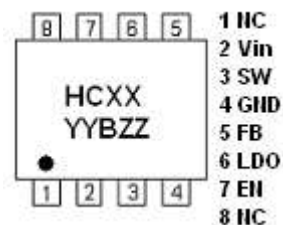
- Power Source for Battery-Powered Equipments.
- Distribute DC to DC Power Supply
- Pre-Regulator for Linear Regulator

ORDERING INFORMATION

LC2312 [1](#) [2](#) [3](#)

Code	Description
1	Temperature&Rohs: C:-40~85°C ,Pb Free Rohs Std.
2	Package type: D8:SOP8
3	Packing type: TR:Tape&Reel (Standard)

PIN CONFIGURATION



TYPICAL APPLICATION

