

NCP1271

Soft-Skip™ Mode Standby PWM Controller with Adjustable Skip Level and External Latch

The NCP1271 represents a new, pin to pin compatible, generation of the successful 7-pin current mode NCP12XX product series. The controller allows for excellent stand by power consumption by use of its adjustable Soft-Skip mode and integrated high voltage startup FET. This proprietary Soft-Skip also dramatically reduces the risk of acoustic noise. This allows the use of inexpensive transformers and capacitors in the clamping network. Internal frequency jittering, ramp compensation, timer-based fault detection and a latch input make this controller an excellent candidate for converters where ruggedness and component cost are the key constraints.

Features

- Fixed-Frequency Current-Mode Operation with Ramp Compensation and Skip Cycle in Standby Condition
- Timer-Based Fault Protection for Improved Overload Detection
- “Soft-Skip Mode” Technique for Optimal Noise Control in Standby
- Internal High-Voltage Startup Current Source for Lossless Startup
- $\pm 5\%$ Current Limit Accuracy over the Full Temperature Range
- Adjustable Skip Level
- Internal Latch for Easy Implementation of Overvoltage and Overtemperature Protection
- Frequency Jittering for Softened EMI Signature
- +500 mA/-800 mA Peak Current Drive Capability
- Sub-100 mW Standby Power can be Achieved
- Pin-to-Pin Compatible with the Existing NCP120X Series
- This is a Pb-Free Device

Typical Applications

- AC-DC Adapters for Notebooks, LCD Monitors
- Offline Battery Chargers
- Consumer Electronic Appliances STB, DVD, DVDR

*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.



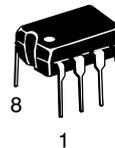
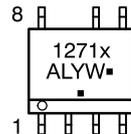
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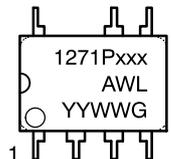
MARKING DIAGRAMS



SOIC-7
D SUFFIX
CASE 751U



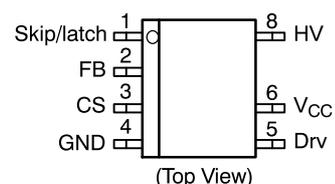
PDIP-7 VHVIC
P SUFFIX
CASE 626B



x = A or B
A= 65 kHz
B= 100 kHz
xxx = Device Code: 65, 100
A = Assembly Location
L, WL = Wafer Lot
Y, YY = Year
W, WW = Work Week
▪ or G = Pb-Free Package

(Note: Microdot may be in either location)

PIN CONNECTIONS



ORDERING INFORMATION

See detailed ordering and shipping information in the package dimensions section on page 19 of this data sheet.