



CR6851

Novel Low Cost Green-Power PWM Controller With Freq. Jittering

Features

- Low Cost, Green-Power PSM & PWM
- Very Low Start-up Current (about 2 μ A)
- Low Operating Current (about 2mA)
- Current Mode Operation
- Under Voltage Lockout (UVLO)
- Built-in Synchronized Slope Compensation
- Programmable PWM Frequency
- Frequency Jitter Compensation
- High-Voltage CMOS Process with ESD
- Over voltage protection for VDD input
- Short circuit protection for DC-output
- Over Power protection for DC-output
- Built-in OTP sensor with hysteresis
- Under-voltage protection for DC-output
- Leading edge Blanking on Sense input
- Constant output power limiting for input
- Cycle-by-cycle current limiting
- Soft Clamped gate output voltage 17V
- SOT-23-6L & DIP-8 Pb-Free Packaging
- Compatible with SG6848 and LD7535

Applications

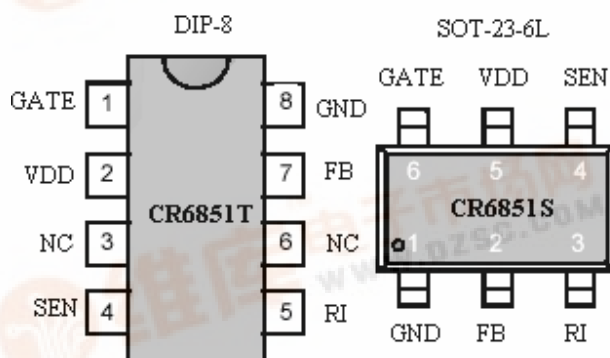
- Switching AC/DC Adaptor
- Open Frame Switching Power Supply

General Description

The CR6851 is a low cost, low startup current, current mode PWM controller with Green-Power power-saving operation. The integrated functions such as the leading-edge blanking of the current sensing, internal slope compensation and the small SOT-23-6L package provide the users a high efficiency, low external component counts, and low cost solution for AC/DC power applications. The

special Green-Power control is not only to achieve the low power consumption but also to offer a non-audible-noise operation when the CR6851 is operating under light load or no load condition. The CR6851 is designed for the low power adaptor or charger applications. The CR6851 is with both SOT-23-6L and DIP-8 package.

Pin Assignment



Pin Descriptions

Name	Description
GND	GND Pin
FB	Analog Input. Voltage feedback pin (same as the COMP pin in UC384X),
RI	This pin is to program the switching frequency. By connecting a resistor to ground to set the switching frequency.
SEN	Current sense pin, connect to sense the MOSFET current.
VDD	Supply voltage pin.
GATE	Gate drive output to drive the external MOSFET.

