

## Pulse Width Modulation (PWM) Controller – SR8136

Thursday, 22 March 2012

SR8136 is a high performance, low cost, highly integrated current mode PWM controller for offline flyback converter applications. The IC integrates Sirectsemi's Proprietary "Hybrid Frequency Jittering" for the oscillator to reduce conduction EMI emission of a power supply. When the output power demands decrease, the IC enters into Sirectsemi's Proprietary "Smooth Frequency Foldback" for high power conversion efficiency without audio noise generated. When the current set-point falls below a given value, e.g. the output power demand diminishes and the IC automatically enters into burst mode and provides excellent efficiency without audio noise.

The IC has built-in synchronized slope compensation to prevent sub-harmonic oscillation at high PWM duty output. A Proprietary "Constant Power Limiting" block is integrated to achieve constant output power limit over universal AC input range. The IC also has built-in soft start function to soften the stress on the MOSFET during power on period.

SR8136 integrates functions and protections of Under Voltage Lockout (UVLO), VCC Over Voltage Protection (OVP), Cycle-by-cycle Current Limiting (OCP), Over Load Protection (OLP), All Pins Floating Protection, RT Pin Short-to-GND Protection, Gate Clamping, VCC Clamping, Leading Edge Blanking (LEB).

SR8136 is available in SOT23-6, SOP-8 and DIP-8 packages.

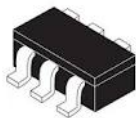


Fig. 1: SOT-23-6 Package.

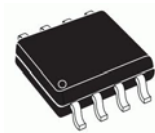


Fig. 2: SOP-8 Package.

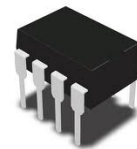


Fig. 3: DIP-8 Package.

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