

## High Performance PWM Flyback Controller

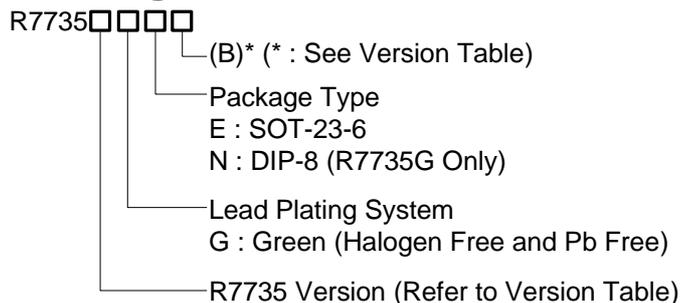
### General Description

R7735 series is the successor of R7732/3 and fully compatible with most of SOT-23-6 / DIP-8 product so far in the market. It has enhanced mode PWM controller and owns excellent green power performance, especially under light load and no load conditions. It focuses on "easy to design" in different applications and it will save both design effort and external components.

Besides the general features shown in the Features section, R7735 covers wide protection options, such as internal Over Load Protection (OLP) and Over Voltage Protection (OVP) to eliminate the external protection circuits. Moreover, it also features Secondary Rectifier Short Protection (SRSP) and CS pin open protection. This protection will make the PSU design for reliability and safety easier.

R7735 is designed for power supply such as NB adaptor which is a very cost effective and compact design. The precise external OVP and Over Temperature Protection (OTP) can be implemented by very simple circuit. The start-up resistors can also be replaced by bleeding resistors to save power loss and component count.

### Ordering Information



Note :

Richtek products are :

- ▶ RoHS compliant and compatible with the current requirements of IPC/JEDEC J-STD-020.
- ▶ Suitable for use in SnPb or Pb-free soldering processes.

### Features

- No Load Input Power Under 100mW
- Accurate Over Load Protection
- UVLO 9V/14V
- Current Mode Control
- Slope Compensation
- Internal Leading Edge Blanking
- Excellent Green Power Performance
- Cycle-by-Cycle Current Limit
- Internal Over Voltage Protection
- Secondary Rectifier Short Protection
- Opto-Coupler Short Protection
- Feedback Open-Loop Protection
- CS Pin Open Protection
- Jittering Frequency
- PRO Pin for External Arbitrary OVP/OTP
- Soft Driving for EMI Noise
- High Noise Immunity
- RoHS Compliant and Halogen Free

### Applications

- Switching AC/DC Adaptor
- DVD Open Frame Power Supply
- Set-Top Box (STB)
- ATX Standby Power
- TV/Monitor Standby Power
- PC Peripherals
- NB Adaptor

### Marking Information

For marking information, contact our sales representative directly or through a Richtek distributor located in your area.

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