

Step-Up/Flyback Switching Regulator IC with Power Saving PWM/PFM control

■GENERAL DESCRIPTION

The NJU7601 is a low voltage operation high-speed switching regulator control IC for step-up and fly-back converter, with PWM/PFM switching control. It can improve a switching efficiency on light load with automatically changing between PWM and PFM controls, and incorporates a totem pole output, which can drive an external MOS-FET easily. The NJU7601 also has a soft-start function, dead time control and timer latch for short circuit protection and their times are all adjustable with external parts. It is available in 8-lead DMP and MSOP (TVSP) packages. It is suitable for battery powered applications.

■PACKAGE OUTLINE

■FEATURES

- Automatic PWM/PFM Control
- Operating Voltage 2.2V to 8V
- Wide Oscillator Range 300kHz to 1MHz
- Maximum Duty Cycle 90% typ.
- Quiescent Current 800 μ A typ.
- Soft-Start Function Internal : 16ms typ. or adjustable
- Dead Time Control
- Timer Latch for Short Circuit Protection
- C-MOS Technology
- Package Outline NJU7600M : DMP8

NJU7600RB1 : MSOP8 (TVSP8)*

*MEET JEDEC MO-187-DA / THIN TYPE

■PRODUCT VARIATION

** Planning

■PIN CONFIGURATION

PIN FUNCTION

1. V⁺
2. FB
3. IN