

## Step-Up / Flyback switching regulator IC with Over Current Protection

### ■GENERAL DESCRIPTION

The **NJU7610** is a low voltage operation high-speed switching regulator control IC for step-up and flyback converter, with a pulse-by-pulse over-current protection. The pulse-by-pulse over-current protection circuit can limit the over current in switching operation. It incorporates a totem pole output, which can drive an external MOS-FET easily. It also has a soft-start function and dead time control and their times are all adjustable with external parts.

The NJU7610 is available in 8-lead DMP and MSOP (TVSP) packages.

### ■PACKAGE OUTLINE

### ■FEATURES

- PWM switching control
- Pulse-by-pulse over current protection
- Operating Voltage 2.2V to 8V
- Wide Oscillator Range 300kHz to 1MHz
- Maximum Duty Cycle 90% typ.
- Quiescent Current 800 $\mu$ A typ.
- Soft-Start Function Internal : 16ms typ. or adjustable
- Dead Time Control
- C-MOS Technology
- Package Outline NJU7610M : DMP8  
NJU7610RB1 : MSOP8 (TVSP8)\*

\*MEET JEDEC MO-187-DA/ THIN TYPE

### ■PRODUCT VARIATION

### ■PIN CONFIGURATION

#### PIN FUNCTION

1. V<sup>+</sup>
2. FB
3. IN