

## High Performance PWM Controller

### General Description:

The XA5312 is a DC-DC converter with Current-Mode control and three optional operation PWM frequencies. Low 0.21V feedback voltage, Over Voltage Protection, Over Current Protection, Schottky diode open/short protection and inductor-short protection make XA5312 to be an ideal controller for LED backlight driver. Internal soft start function can avoid inrush current happened in the start-up period. Additional Over-Temperature-Protection and UVLO make system more reliable. CMOS process greatly reduces the operating current when comparing to similar products.

## Features

- Current mode control and fixed frequency peration
- 8V ~ 28V operation voltage (Note 1)
- Internal minimum off time
- Internal soft-start
- Over voltage protection, OVP
- Load short protection, LSP
- Schottky short protection, SSP
- Schottky open protection
- LED cathode short protection, LCSP
- Over temperature protection, OTP
- Inductor short protection
- Internal under voltage lock out, UVLO
- Totem pole output
- SOP-8 package

## Functional block diagram

