



## DESCRIPTION

The AA18380 is a single-channel PWM DC-DC regulator control IC that supports low-voltage operation. This IC features a low minimum operating voltage of 1.8 V and low current consumption, is optimal for use in high-efficiency power supplies for portable electronic equipment.

## FEATURES

- Wide operating supply voltage range: 1.8 V to 15 V
- Stable reference voltage circuit: 1.25V
- Low current consumption: Typically 5.5 mA in operation, 1  $\mu$ A or less in stand-by
- Wide PWM output frequency range: 10 KHz to 1 MHz
- Incorporates a soft start circuit and adjustable soft start time
- Timer latch short-circuit protection circuit (SCP)
- Low input voltage malfunction prevention circuit (U.V.L.O.)
- On/off control function
- Totem-pole type output by using an external resistor to set the output current

## APPLICATIONS

- LCD Displays
- PDAs
- Digital Still Cameras
- Hand-held and portable instruments

## BLOCK DIAGRAM

