



# Switching Regulator Controller for LCD Bias

## Features

- 2.5 to 15 V supply voltage operating range.
- Low current consumption: 6 mA in operation, 1 $\mu$ A or less in stand-by .
- 20 kHz to 1 MHz operation frequency range.
- Provides a fixed output current with minimal supply voltage fluctuations by using an external resistor to set the output current.
- Totem-pole output.
- Built-in soft start circuit.
- Built-in timer-latch short circuit detection and protection circuit (SCP).

## General Description

The AT1380A is a single-channel PWM control IC for DC/DC conversion with soft start function and short circuit detection. Adjustable soft start is programmed with an external capacitor on SCP pin. The AT1380A is ideal for up, down and fly-back conversion.

## Applications

- LCD Displays
- PDAs
- Digital Still Cameras

## Ordering Information

| Part number  | Package       | Marking                                  | REMARK          |
|--------------|---------------|--|-----------------|
| AT1380AS     | SOP8          | AT1380AS                                 |                 |
| AT1380AS_GRE | SOP8, Green   | AT1380AS, Date Code with one bottom line |                 |
| AT1380AP     | TSSOP8        | AT1380AP                                 | <b>OBSOLETE</b> |
| AT1380AP_GRE | TSSOP8, Green | AT1380AP, Date Code with one bottom line | <b>OBSOLETE</b> |

## Pin configuration

