

AA1726

Agamem Microelectronics Inc.

PRELIMINARY

16-bit Constant Current LED Driver

DESCRIPTION

The AA1726 is a low voltage; low current and constant-current drivers designed for LEDs and LED displays. The output current can be set using an external resistor. As a result, all outputs will have virtually the same current levels. This driver incorporates a 16-bit constant current output, a 16-bit shift register, a 16-bit latch and a gate circuit. The full-scale constant output current of each channel will range from 5mA up to 90mA.

FEATURES

- 16 constant current output channels
- · Adjustable output current through external resistor
- Serial data IN / parallel data OUT
- Maximum output terminal voltage: 20V
- Output current: 5-90 mA
- Max clock frequency 25 MHz
- · Built-in power on reset and thermal protection circuit
- Interlaced 30ns delay of output to lower bouncing noise
- I/O logic: Schmitt trigger input
- Constant-current accuracy (all outputs on)

between bits	between ICs	Condition
+/- 3%	+/- 6%	lout=10~60mA

• Package: SOP24, SSOP24

APPLICATIONS

- LED Displays
- LED Signboards
- Display Back-lighting

1

[©]Copyright Agamem Microelectronics Inc.

www.agamem.com.tw 2009/5/19

AGAMEM MICROELECTRONICS INCOPERATION RESERVES THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICETO ANY PRODUCTS HEREIN TO IMPROVE RELIABILITY, FUNCTION OR DESIGN. AGAMEM DOES NOT ASSUME ANY LIABIL ITY ARISING OUT OF THE APPLICATION OR USE OF ANY PRODUCTS OR CIRCUIT DESRIBED HEREIN; NEITHER DOES IT CONVEY ANY LICENSE UNDER ITS PATENT RIGHTS, NOR THE RIGHTS OF OTHERS.