

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

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