



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%	Iout=10~60mA

- Package: SOP24, SSOP24

■ APPLICATIONS

- LED Displays
- LED Signboards
- Display Back-lighting

