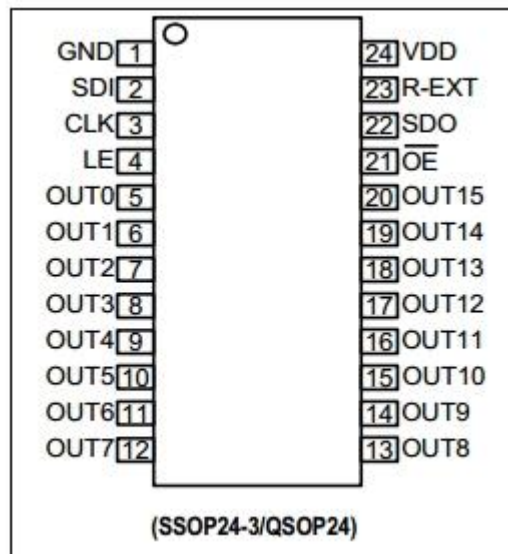


SM16026S



SM16026-LED display driver IC

Introduction:

SM16026 is a driver chip specially designed for LED display. It has built-in CMOS shift register and latch function, which can convert serial input data into parallel output data format.

SM16026 has a working voltage of 3.3V-5V, provides 16 current sources, and can provide a constant current of 2mA-36mA at each output port; and the difference in output current between a single IC is less than $\pm 3\%$; The difference is less than $\pm 6\%$; the channel output current does not follow the output terminal voltage (VDS)

And the change of current is less than 1% due to the influence of voltage and ambient temperature; the output current of each channel is adjusted by an external resistor.

The output voltage of SM16026 can reach 17V, so multiple LED lights can be connected in series at each output terminal. In addition, the clock frequency of SM16026 up to 25MHz can meet the system's requirements for large data transmission.

Chip characteristics

- 1) 16-channel constant current source output
- 2) Constant current range:
2—36mA@VDD=5.0V;
2—24mA@VDD=3.3V
- 3) High constant current accuracy:
On-chip maximum error: $<\pm 3\%$
Maximum error between slices: $<\pm 6\%$
- 4) Set the current output value through external resistance adjustment
- 5) Up to 25MHz clock frequency
- 6) Working voltage: 3.3V ~ 5.0V
- 7) Package: SSOP24-3, QSOP24, QFN24 (4 * 4)

Application area

- 1) Advertising screen
- 2) LED lighting