MN8636A

LCD Dot-Matrix Segment Driver with 240 Outputs

■ Overview

The MN8636A is a 240-output segment driver for dot-matrix color LCD panels. It latches the 8-bit parallel display data from the LCD controller and generates the necessary LCD drive signals.

Used in combination with the MN8637 common driver, it helps create an LCD module with low power consumption.

An LCD drive voltage compensation function yields a high-quality LCD module with low crosstalk levels.

■ Features

- Maximum LCD drive voltage of 6 V
- LCD drive outputs: 240
- LCD drive voltage compensation function that yields a high-quality LCD module with low crosstalk levels
- Four LCD drive voltage input pins: VHC, VH, VL, and VLC
- Built-in level shift function that permits interfacing with LCD controllers of power supply voltages between 3.0 and 5.5 V
- Bidirectional shift register that permits selection of data transfer direction for output pins, thus simplifying mounting on large panels
- Multilevel cascade connection support for driving high-precision LCD panels
- 8-bit parallel data interface that supports transfers at a speed one-eighth that of serial interface for lower power consumption
- Power down function for shutting down all but one driver in a multilevel cascade connection and thus reducing the LCD module's power consumption
- Operating voltage 3.0 to 5.5 V (Input)

■ Applications

- Dot-matrix LCD panels

■ Block Diagram