

MN83874

Liquid Crystal Display Panel Source-Driver

■ Overview

The MN83874 converts digital display data from a personal computer or engineering workstation into analog signal voltages for driving thin-film transistor color LCD panels.

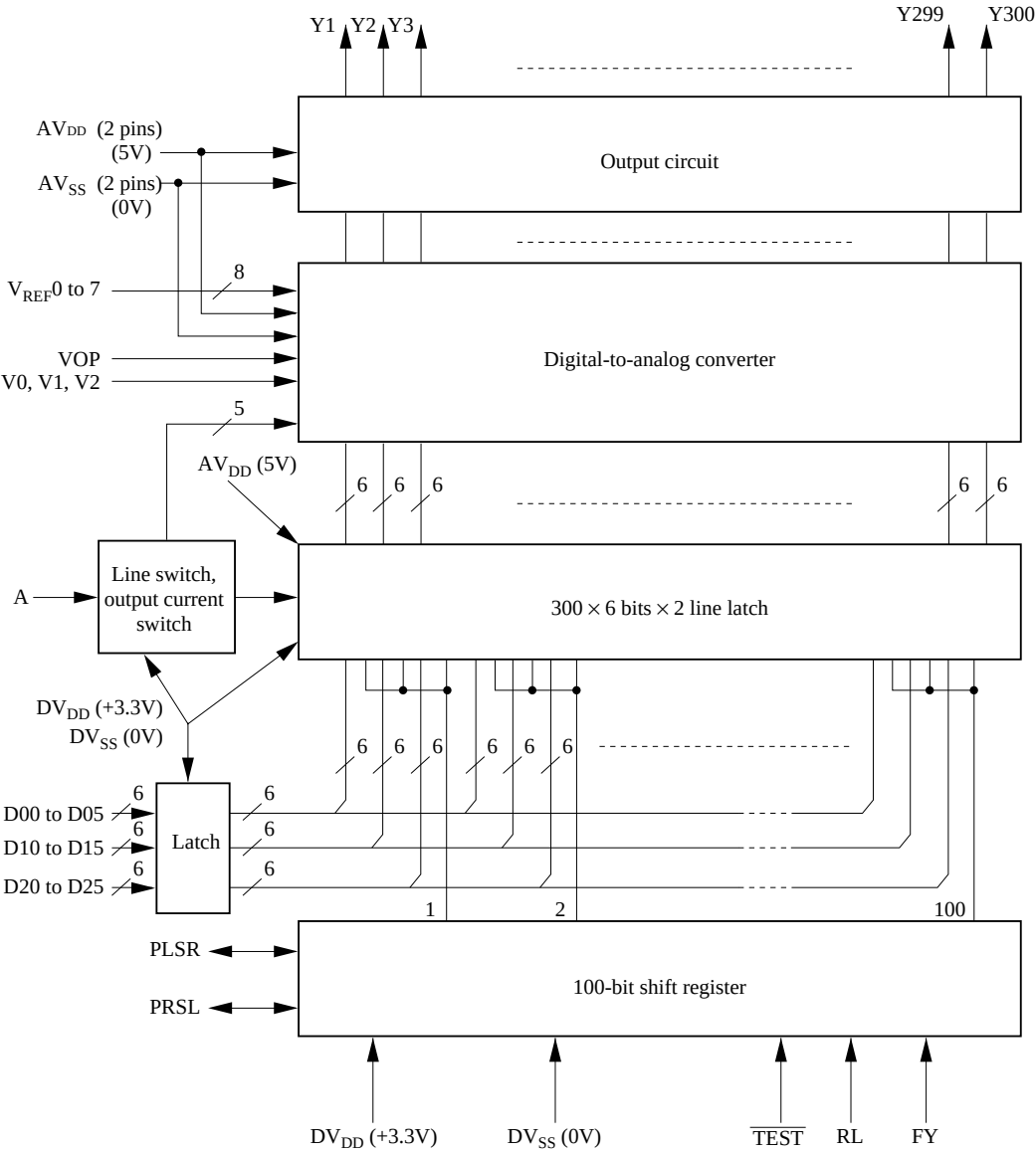
■ Features

- Driver capable of displaying 260,000 colors with built-in D/A converter with 6-bit digital inputs
- Maximum operating frequency of 45 MHz
- 300 drive outputs
- Seven-segment gamma correction
- Data settings of 01 and 3E in addition to 00, 07, 0F, 1F, 2F, 38 and 3F for output voltage inflection points
- No need for an external multilevel gradation voltage generator circuit
- Drive system that does not require precharging
- Supports serial cascade connections
- Automatic clock suspension after reading in specified data volume
- Choice of shift register shift directions
- RGB voltage shifts supported
- 3.3 volt power supply for logic and 5 volt power supply for analog circuits

■ Applications

- Personal computers and workstations

■ Block Diagram



■ MN83874 Application circuit example

