

ISL24813

Programmable 18-Channel x 2 Bank, 10-Bit TFT-LCD V_{REF} Generator with Buffered V_{COM} Calibrator

FN6615
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The ISL24813 is an I^2C programmable 18-channel, 10-bit reference voltage generator with a digitally controlled V_{COM} calibrator and op amp. Two selectable banks of 18 channels allow fast hardware or software switching between two different gamma curves. The ISL24813 is configured and controlled via a standard I^2C interface.

ISL24813 is available in a 32 Ld TQFN package and is specified for operation across the $-40^{\circ}C$ to $+85^{\circ}C$ temperature range.

Features

- 18 I^2C programmable 10-bit DACs
- Integrated programmable V_{COM} calibrator
- One V_{COM} op amp
- Two banks of volatile memory for DACs
- 5V to 18V analog supply range
- 2.5V to 3.3V digital supply range
- 20mA analog supply current (unloaded)
- 700 μ A digital supply current
- I^2C serial interface
- Pb-free (RoHS compliant)

Applications

- TFT-LCD column driver reference generator
- General-purpose reference voltage generators

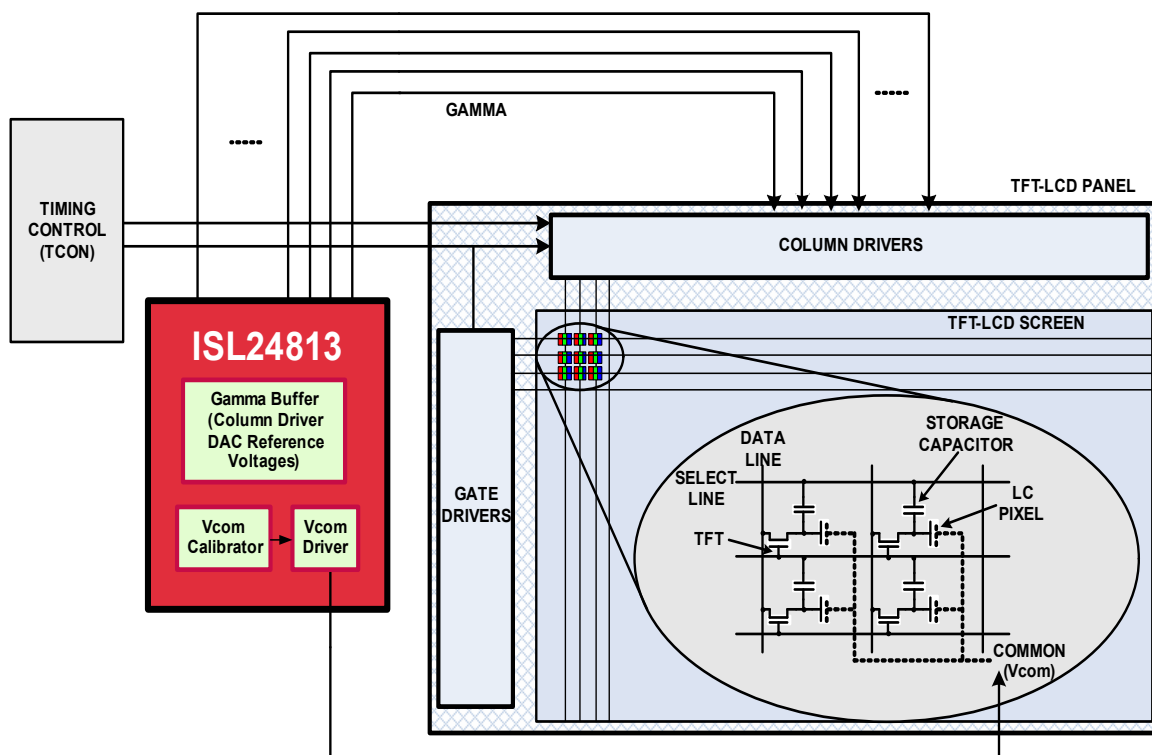


FIGURE 1. TYPICAL APPLICATION CIRCUIT

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