

ISL24822

Programmable 14-Channel x 2 Bank, 10-bit TFT-LCD V_{REF} Generator with Buffered V_{COM} Calibrator

FN6664
Rev 2.00
November 6, 2014

The ISL24822 is a programmable 14-Channel, 10-bit reference voltage generator with a digitally-controlled V_{COM} Calibrator and op amp. Two selectable banks of 14 channels allow fast hardware or software switching between 2 different gamma curves. The ISL24822 is configured and controlled via a standard I²C Interface.

The ISL24822 is available in a 32 Ld TQFN package and is specified for operation over the -40°C to +85°C temperature range.

Applications

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

Features

- 14 I²C-programmable 10-bit DACs
- Integrated programmable V_{COM} calibrator
- V_{COM} op amp
- 2 Banks of volatile memory for DACs
- 4.5V to 19V analog supply range
- 2.25V to 3.6V digital supply range
- 20mA analog supply current (unloaded)
- 700µA digital supply current
- I²C serial interface
- Pb-free (RoHS compliant)

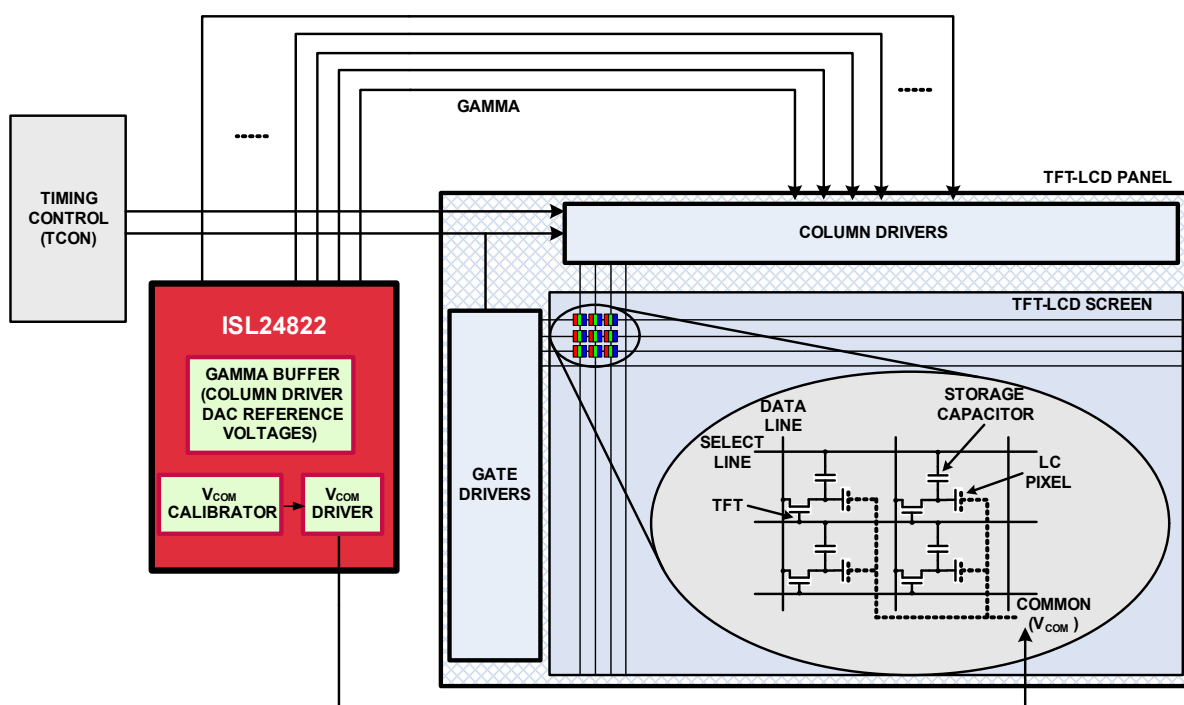


FIGURE 1. TYPICAL APPLICATION: TFT-LCD REFERENCE VOLTAGE GENERATOR

© Copyright Intersil Americas LLC 2008-2014. All Rights Reserved.
All trademarks and registered trademarks are the property of their respective owners.

For additional products, see www.intersil.com/en/products.html

Intersil products are manufactured, assembled and tested utilizing ISO9001 quality systems as noted in the quality certifications found at www.intersil.com/en/support/qualandreliability.html

Intersil products are sold by description only. Intersil may modify the circuit design and/or specifications of products at any time without notice, provided that such modification does not, in Intersil's sole judgment, affect the form, fit or function of the product. Accordingly, the reader is cautioned to verify that datasheets are current before placing orders. Information furnished by Intersil is believed to be accurate and reliable. However, no responsibility is assumed by Intersil or its subsidiaries for its use; nor for any infringements of patents or other rights of third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of Intersil or its subsidiaries.

For information regarding Intersil Corporation and its products, see www.intersil.com