



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





ISL24867

15-Channel I²C Programmable TFT-LCD Reference Voltage Generator with Dual- Bank, DVR V_{COM}, GND Outputs, EEPROM, and Ultra-low Power Operation

Key Features

- 15-Channel Reference Voltage Outputs, I²C Programmable
- 14-Channel Gamma References, 10-bit Resolution with Buffered Dual Bank Outputs
- 1-Channel VCOM Calibrator ("DVR"), 8-bit Current-Sink DAC
- High Output Current V_{COM} Amplifier
- Dual Bank Gamma Output, with Fast Output Bank Switching
- GND Outputs Function, with Logic Control
- Ultra-low Power Operation, Ideal for Tablet and Mobile TFT-LCD Applications: Quiescent Power 13mW @ 8V A_{VDD}
- EEPROM Endurance: 10,000 Write Cycles
- Read/Write Capable Over 2.25V to 3.6V DVDD Range
- 6.3V to 19V Analog Supply Operating Range
- 2.25V to 3.6V Digital Supply Operating Range
- 28 Ld 4x5mm Super Thin X2QFN Package
- Pb-free (RoHS Compliant)

Description

The ISL24867 is a programmable reference voltage generator for TFT-LCDs featuring ultra-low power operation. The ISL24867 contains an I²C programmable, 10-bit, 14-channel gamma reference voltage generator with buffered dual bank outputs, an 8-bit programmable DVR V_{COM} calibrator, high output current VCOM amplifier, and a GND outputs function with logic (EN) control. The integrated EEPROM, for storing all reference voltage data, features an endurance of 10,000 write cycles and is read/write capable over the digital supply voltage range. The dual bank outputs are capable of fast switching between different sets of voltage reference data. Bank switching is ideal to quickly change between gamma curves for 2D/3D TFT-LCD applications. The device's outputs are double buffered, which allows for updating data in one bank while data is simultaneously output from the other bank. Combining gamma and VCOM reference voltage generators, with low power operation, and EEPROM, the ISL24867 provides a complete reference voltage solution ideal for tablet, monitor, and mobile TFT-LCD applications. The ISL24867 is available in a Super Thin 28 Ld 4x5mm X2QFN thermally enhanced package. It is specified for operation over the -40°C to +85°C ambient temperature range.

Applications

Tablet, Notebook, Monitor TFT-LCD
 Mobile - 2D/3D TFT-LCD
 General-Purpose Reference Voltage Generator

PARAMETERS	ISL24867
# of Devices/ Channels	15
V _s Range (V)	6.3 to 19
Interface Type	I ² C
Bus Interface Speed	0.4 MHz
Rail-to-Rail	Out
I _s	1.2 mA