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## Device Information

ISL24832 Print Page

17-Channel I<sup>2</sup>C Programmable TFT-LCD Reference Voltage Generator, with Dual Bank Outputs and Integrated **EEPROM** 

- Features Description Technical Documentation
- iSim Design Simulation Tools And Support
- Pricing / Samples
- Related Devices

#### **Datasheet**



#### ISL24832

Programmable Gamma Buffer Data Sheet Request Form

| # of Devices/ Channels    | 17               |
|---------------------------|------------------|
| $V_{S}(V)$                | 10.8 to 19       |
| Bus Interface Type        | I <sup>2</sup> C |
| Bus Interface Speed (MHz) | 400              |
| Rail-to-Rail              | Out              |
| I <sub>S</sub> (mA)       | 20               |

#### **Product Information**

#### **Key Features**

17-Channel Reference Voltage Outputs, I<sup>2</sup>C Programmable with 10-bit Resolution:

16-Channel Gamma References, with Buffered Dual Bank Outputs

1-Channel V<sub>COM</sub> Calibrator, with Amplifier Output

Low Power: Ideal for Tablet and Mobile TFT-LCD Applications, I<sub>AVDD</sub> = 5mA @ 15V

Two Banks of EEPROM: Re-writable >300 times

Fast Output Bank Switching Time: <1 µs Typical

10.8V to 19V Analog Operating Supply Range

2.25V to 3.6V Digital Operating Supply Range

Pb-free (RoHS Compliant)

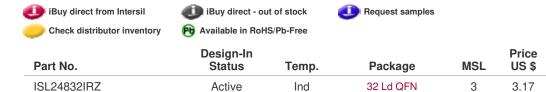
#### Description

The ISL24832 is a power optimized programmable reference voltage generator for TFT-LCDs.

Active

For more detailed device information, please request the device datasheet through the online request form: Programmable Gamma Buffer Data Sheet Request Form

## Pricing / Packaging / Samples / Ordering



Ind The price listed is the manufacturer's suggested retail price for quantities of 1K units. However, prices in today's market are fluid and may change without notice.

32 Ld QFN T+R

3

3.17

MSL = Moisture Sensitivity Level - per IPC/JEDEC J-STD-020

**SMD** = Standard Microcircuit Drawing

ISL24832IRZ-T13

## **Technical Documentation**

Datasheet(s):

**IN** Programmable Gamma Buffer Data Sheet Request Form

Technical Homepage:

Display Products

## **Tools And Support**

## iSim Design Simulation

No Models Available

## **Applications**

TFT-LCD Tablet PC, Monitors Mobile, 2D/3D TFT-LCD General-Purpose Reference Voltage Generator

| $\neg$ = | Related | Devices |
|----------|---------|---------|

Parametric Table

| Related Dev | vices Parametric Table  |
|-------------|---|
| EL5126      | 8-Channel TFT-LCD Reference Voltage Generator   |
| EL5225      | 10-Channel TFT-LCD Reference Voltage Generator  |
| EL5226      | 10- and 12-Channel TFT-LCD Reference Voltage Generator  |
| EL5325      | 12-Channel TFT-LCD Reference Voltage Generator  |
| EL5326      | 10- and 12-Channel TFT-LCD Reference Voltage Generator  |
| EL5525      | Not Recommended for New Designs, No Recommended Replacement. Contact our Technical Support Center at 1-888-INTERSIL or www.intersil.com/tsc 18-Channel TFT-LCD Reference Voltage Generator  |
| ISL24002    | 14-Channel Static TFT LCD Reference Voltage Generator with 1-Channel $V_{\text{COM}}$   |
| ISL24005    | 14-Channel Programmable I <sup>2</sup> C TFT-LCD Reference Voltage Generator with Integrated 4-Channel Static Gamma Drivers and Integrated Programmable Vcom Calibrator   |
| ISL24006    | 14-Channel Programmable Switchable I <sup>2</sup> C TFT-LCD Reference Voltage Generator with Integrated 4 -Channel Static Gamma Drivers   |
| ISL24007    | 14-Channel Programmable Switchable I <sup>2</sup> C TFT-LCD Reference Voltage Generator with Integrated 4 -Channel Static Gamma Drivers   |
| ISL24008    | 14-Channel Programmable SPI TFT-LCD Reference Voltage Generator with Integrated 4-Channel Static Gamma Drivers and Integrated Programmable Vcom Calibrator  |
| ISL24813    | 18-Channel Programmable I <sup>2</sup> C TFT-LCD Reference Voltage Generator with 1-Channel VCOM and Integrated Programmable VCOM Calibrator  |
| ISL24821    | 12-Channel Programmable Switchable $I^2$ C TFT-LCD Reference Voltage Generator with Integrated 1 -Channel Op Amp and $V_{\text{COM}}$ Calibrator  |
| ISL24822    | 14-Channel Programmable $I^2$ C TFT-LCD Reference Voltage Generator with 1-Channel $V_{COM}$ and Integrated Programmable $V_{COM}$ Calibrator   |
| ISL24833    | 18-Channel Programmable $I^2$ C TFT-LCD Reference Voltage Generator with $V_{COM}$ , Integrated $V_{COM}$ Calibrator and 2 Banks of Integrated EEPROM   |
| ISL24837    | 8-Channel Programmable I2C TFT-LCD Reference Voltage Generator with Band Gap Trimmed Reference, 4-Channel Programmable Amps with Negative Feedback Inputs, 1-Channel $V_{\text{COM}}$ Op Amp, Integ. $V_{\text{COM}}$ Calibrator and 2 Banks of Integ. EEPROM |
| ISL24837A   | Programmable TFT-LCD VREF Generator   |
|             |   |

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