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NO RECOMMENDED REPLACEMENT**  
contact our Technical Support Center at  
1-888-INTERSIL or www.intersil.com/tsc

**14-Channel Programmable I<sup>2</sup>C TFT-LCD Reference Voltage Generator with Integrated 4-Channel Static Gamma Buffers and Integrated V<sub>COM</sub> Calibrator**

The ISL24005 is a 14-Channel programmable reference voltage generator with four channels of static gamma buffers and a programmable V<sub>COM</sub> calibrator.

The ISL24005 is divided into two sets of seven generators: one is designed to cover the range from V<sub>REFL\_L</sub> to V<sub>REFL\_H</sub>, and the other is designed to cover the range from V<sub>REFU\_L</sub> to V<sub>REFU\_H</sub>.

The V<sub>COM</sub> calibrator is the sink-current output that attaches to an external voltage divider. The desired V<sub>COM</sub> setting can be adjusted by the I<sup>2</sup>C interface.

ISL24005 is available in the 32 Ld Thin QFN package and is specified for operation over the -40°C to +85°C temperature range.

**Ordering Information**

PART NUMBER (Note)	PART MARKING	PACKAGE (Pb-Free)	PKG. DWG. #
ISL24005IRTZ*	ISL240 05IRTZ	32 Ld TQFN	L32.5x5C

\*Add "-T13" suffix for tape and reel. Please refer to TB347 for details on reel specifications.

NOTE: These Intersil Pb-free plastic packaged products employ special Pb-free material sets, molding compounds/die attach materials, and 100% matte tin plate plus anneal (e3 termination finish, which is RoHS compliant and compatible with both SnPb and Pb-free soldering operations). Intersil Pb-free products are MSL classified at Pb-free peak reflow temperatures that meet or exceed the Pb-free requirements of IPC/JEDEC J STD-020.

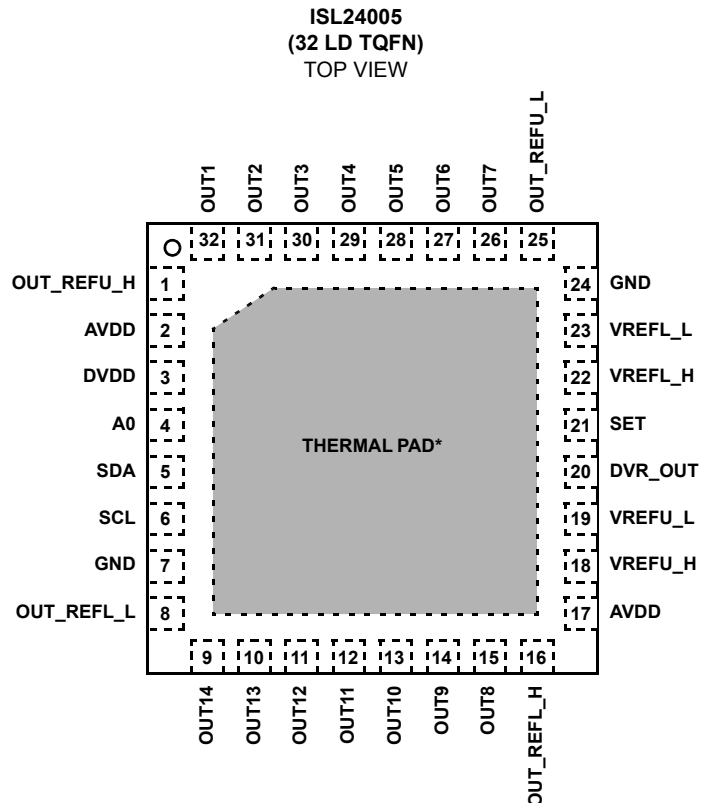
**Features**

- 14 Programmable Voltages
- Integrated Programmable V<sub>COM</sub> Calibrator
- 4-Channel Static Buffers
- 20mV Resolution (8-bits)
- Analog Supply: 4.5V to 19V @ 11mA (Unloaded)
- Digital Supply: 2.25V to 3.6V @ 0.7mA (Unloaded)
- I<sup>2</sup>C Interface
- Pb-Free (RoHS compliant)

**Applications**

- TFT-LCD Column Driver Reference Generator
- General-Purpose Reference Voltage Generators

**Pinout**



For additional products, see [www.intersil.com/en/products.html](http://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](http://www.intersil.com/en/support/qualandreliability.html)

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*Intersil products are sold by description only. Intersil Corporation reserves the right to make changes in circuit design, software and/or specifications at any time without notice. Accordingly, the reader is cautioned to verify that data sheets 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.*

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