

ISL24017

High Voltage 5-Channel Voltage Level Translator and 2 RRIO Amplifiers

FN6693
Rev 1.00
October 8, 2009

The ISL24017 is a high performance level translator. It consists of 5-Channel inputs and 10-Channel complementary level translated outputs, and 2 general purpose amplifiers. The level translator $OUTx$ and \overline{OUTx} complementary outputs are controlled by V_{INx} logic input signals. Their output high and low voltage levels are set by REFH and REFL inputs respectively. The level shifter is designed to deliver large peak current into highly capacitive loads. The additional dual general purpose amplifiers can be used to create V_{REFH} and V_{REFL} voltages.

The ISL24017 is available in a 32 Ld Thermal Enhanced TQFN package. It is specified for operation over the -40°C to $+85^{\circ}\text{C}$ industrial temperature range.

Ordering Information

PART NUMBER (Note)	PART MARKING	TEMP. RANGE ($^{\circ}\text{C}$)	PACKAGE (Pb-free)	PKG. DWG. #
ISL24017IRTZ*	ISL240 17IRTZ	-40 to +85	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.

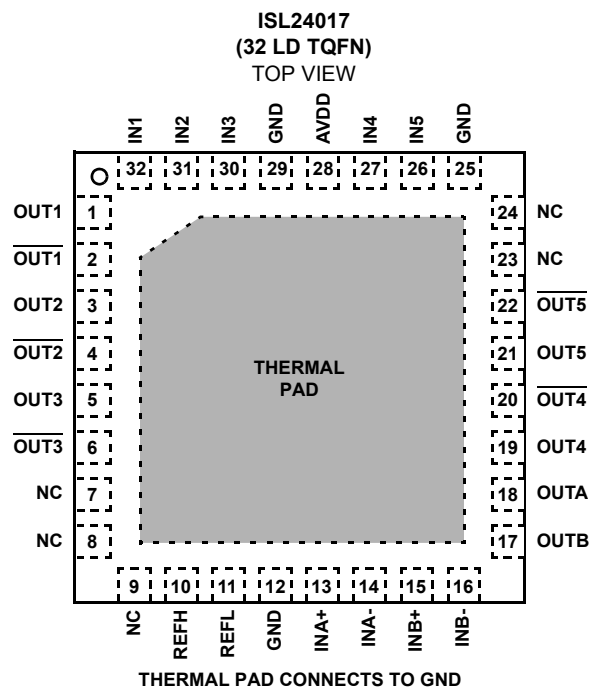
Features

- 18V Output Range
- Rail-to-Rail Output Voltage Range
- 200mA Peak Output Current per Channel
- 45 V/ μs Level Translator Slew Rate
- Dual Rail-to-Rail Input and Output Amplifiers
- 32 Ld TQFN Package
- Pb-Free (RoHS Compliant)

Applications

- TFT-LCD Panels
- Logic Level Translator

Pinout



**© Copyright Intersil Americas LLC 2008-2009. 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