

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 OUT_x and $\overline{OUT}_x$ 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.

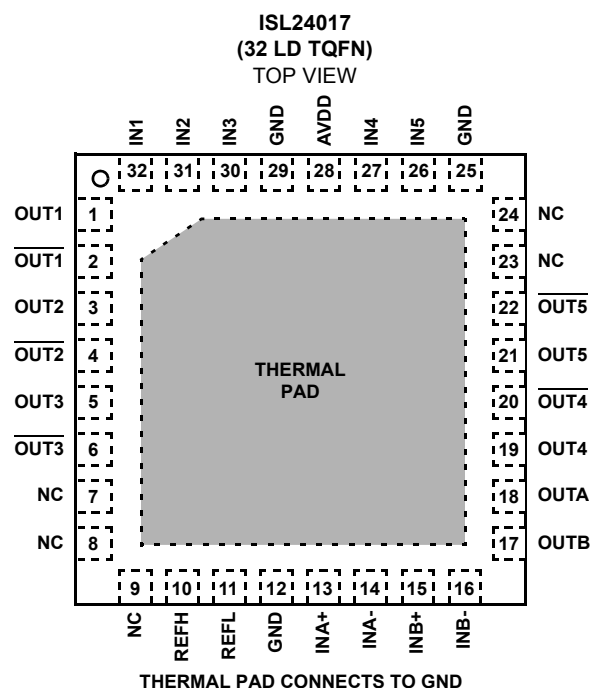
Features

- 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



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