ISL24017

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

FN6693
Rev 1.00
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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 use 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°C industrial temperature range.

Ordering Information

PART NUMBER (Note)	PART MARKING	TEMP. RANGE (°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

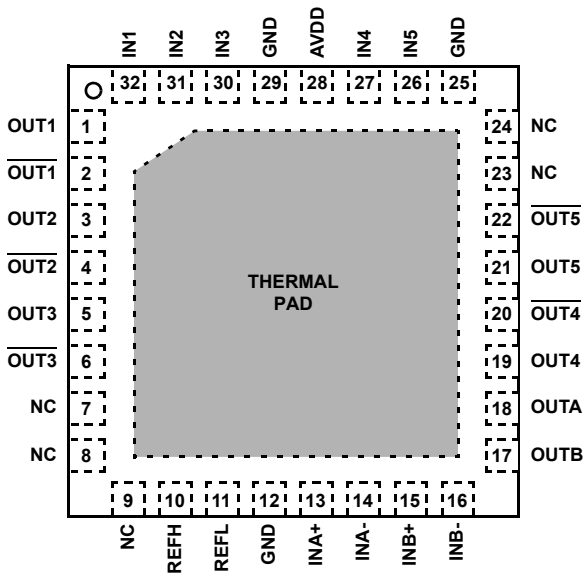
- 18V Output Range
- Rail-to-Rail Output Voltage Range
- 200mA Peak Output Current per Channel
- 45 V/µs Level Translator Slew Rate
- Dual Rail-to-Rail Input and Output Amplifiers
- 32 Ld TQFN Package
- Pb-Free (RoHS Compliant)

Applications

- TFT-LCD Panels
- Logic Level Translator

Pinout

ISL24017
(32 LD TQFN)
TOP VIEW



THERMAL PAD CONNECTS TO GND

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