

## ISL24016

High Voltage 7-Channel Voltage Level Translator and 2 RRIO Amplifiers

FN6540  
Rev 1.00  
October 8, 2009

The ISL24016 is a high performance level translator. It consists of 7-Channel inputs and 14-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 ISL24016 is available in a 32 Ld Thermal Enhanced TQFN package. It is specified for operation over the  $-40^{\circ}\text{C}$  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. #
ISL24016IRTZ*	ISL240 16IRTZ	-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.

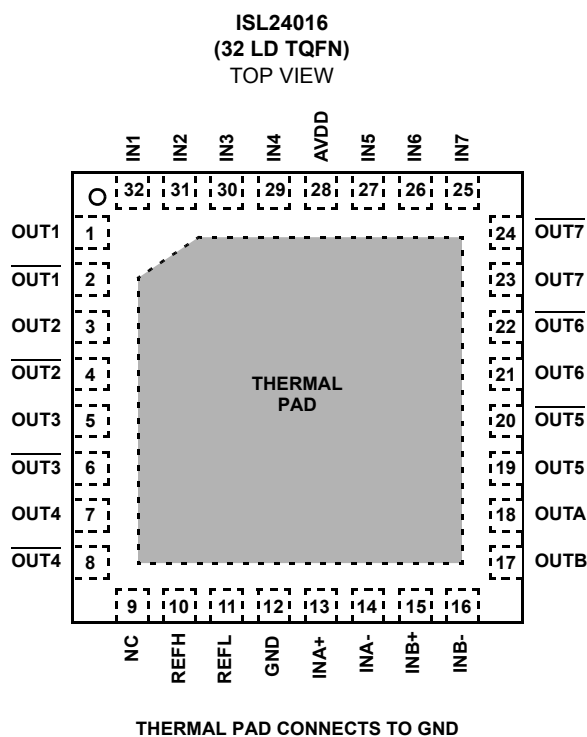
### Features

- 18V Output Range
- Rail-to-Rail Output Voltage Range
- 200mA Peak Output Current per Channel
- 45 V/ $\mu\text{s}$  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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