

EL1537A

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

DATASHEET

sit www.intersil.com/products/EL1537A

FN6134 Rev 1.00 April 19, 2007

Dual Channel Central Office ADSL2+ Line Driver

The EL1537A is a very low power dual channel differentiated amplifier designed for central office line driving for DMT ADSL solutions. The EL1537A has a higher output swing specification for driving 30Ω loads as compared to the EL1537. This device features a high drive capability of 400mA while consuming only 7.5mA of supply current per amplifier from $\pm 12 V$ supplies. This driver achieves a typical distortion of less than -75dBc, at 1MHz into a 50Ω load. The EL1537A is available in the thermally-enhanced 28 Ld HTSSOP package. This device is specified for operation over the full -40°C to +85°C temperature range.

The EL1537A has two control pins, C_0 and C_1 , per channel. With the selection of C_0 and C_1 , the device can be set into full-Is power, 3/4-Is power, 1/2-Is power, and power-down disable modes. The EL1537A maintains excellent distortion and load driving capabilities even in the lowest power settings. The EL1537A has extended bandwidth and improved THD and slew rate for ADSL2+ and VDSL applications.

Ordering Information

PART NUMBER (Note)	PART MARKING	PACKAGE (Pb-free)	TAPE & REEL	PKG. DWG.#
EL1537AIREZ	1537AIREZ	28 Ld HTSSOP	-	MDP0048
EL1537AIREZ-T7	1537AIREZ	28 Ld HTSSOP	7"	MDP0048
EL1537AIREZ-T13	1537AIREZ	28 Ld HTSSOP	13"	MDP0048

NOTE: Intersil Pb-free plus anneal products employ special Pb-free material sets; molding compounds/die attach materials and 100% matte tin plate termination finish, which are 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

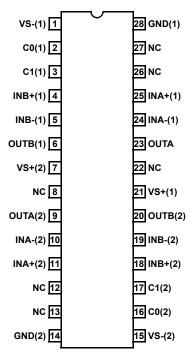
- Drives 400mA at 16V_{P-P} on ±12V supplies
- 44.4V_{P-P} differential output drive into 100Ω
- $40V_{P-P}$ minimum differential output drive into 60Ω
- -75dBc typical driver output distortion driving 50Ω at 1MHz and 1/2-Is bias current
- Low quiescent current of 3.9mA per amplifier in 1/2-I_S mode
- 50MHz BW at A_V = 10
- · Power-down disable mode
- Pin-to-pin replacement for EL1527
- · Pb-free plus anneal available (RoHS compliant)

Applications

- · ADSL, ADSL2, ADSL2+ line drivers
- · G.SHDSL, HDSL2 line drivers
- · VDSL line drivers
- · Video distribution amplifiers
- · Video twisted-pair line drivers

Pinout

EL1537A (28 LD HTSSOP) TOP VIEW



© Copyright Intersil Americas LLC 2005-2007. 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

