

Features

- 12MHz -3dB bandwidth
- Supply voltage = 4.5V to 16.5V
- Low supply current (per buffer) = 600µA
- High slew rate = 15V/µs
- Rail-to-rail input/output swing
- Ultra-small packages

Applications

- TFT-LCD drive circuits
- Electronics notebooks
- Electronic games
- Touch-screen displays
- Personal communication devices
- Personal digital assistants (PDA)
- Portable instrumentation
- Sampling ADC amplifiers
- Wireless LANs
- Office automation
- Active filters
- ADC/DAC buffers

Ordering Information

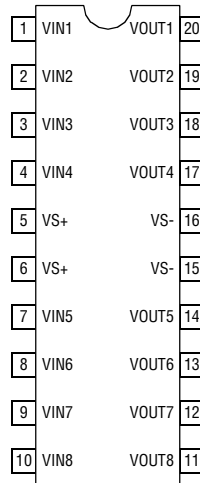
Part No	Package	Tape & Reel	Outline #
EL5123CY	10-Pin MSOP	-	MDP0043
EL5123CY-T7	10-Pin MSOP	7"	MDP0043
EL5123CY-T13	10-Pin MSOP	13"	MDP0043
EL5223CL	24-Pin LPP	-	MDP0046
EL5223CL-T7	24-Pin LPP	7"	MDP0046
EL5223CL-T13	24-Pin LPP	13"	MDP0046
EL5223CR	20-Pin TSSOP	-	MDP0044
EL5223CR-T7	20-Pin TSSOP	7"	MDP0044
EL5223CR-T13	20-Pin TSSOP	13"	MDP0044
EL5323CL	24-Pin LPP	-	MDP0046
EL5323CL-T7	24-Pin LPP	7"	MDP0046
EL5323CL-T13	24-Pin LPP	13"	MDP0046
EL5323CR	24-Pin TSSOP	-	MDP0044
EL5323CR-T7	24-Pin TSSOP	7"	MDP0044
EL5323CR-T13	24-Pin TSSOP	13"	MDP0044
EL5423CL	32-Pin LPP	-	MDP0046
EL5423CL-T7	32-Pin LPP	7"	MDP0046
EL5423CL-T13	32-Pin LPP	13"	MDP0046
EL5423CR	28-Pin TSSOP	-	MDP0044
EL5423CR-T7	28-Pin TSSOP	7"	MDP0044
EL5423CR-T13	28-Pin TSSOP	13"	MDP0044

General Description

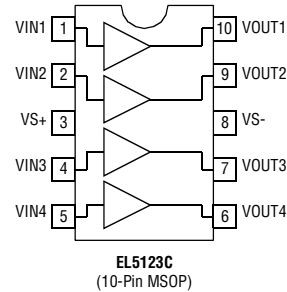
The EL5123C, EL5223C, EL5323C, and EL5423C are low power, high voltage rail-to-rail input/output buffers designed primarily for use in reference voltage buffering applications for TFT_LCDs. They are available in quad (EL5123C), octal (EL5223C), 10-channel (EL5323C), and 12-channel (EL5423C) topologies. All buffers feature a -3dB bandwidth of 12MHz and operate from just 600µA per buffer. This family also features fast slewing and settling times, as well as a continuous output drive capability of 30mA (sink and source).

The quad channel EL5123C is available in the 10-pin MSOP package. The 8-channel EL5223C is available in both the 20-pin TSSOP and 24-pin LPP packages, the 10-channel EL5323C in the 24-pin TSSOP and 24-pin LPP packages, and the 12-channel EL5423C in the 28-pin TSSOP and 32-pin LPP packages. All buffers are specified for operation over the full -40°C to +85°C temperature range.

Connection Diagrams



EL5223C
(20-Pin TSSOP Top View)



EL5123C
(10-Pin MSOP)

Connection Diagrams are continued on page 5

Note: All information contained in this data sheet has been carefully checked and is believed to be accurate as of the date of publication; however, this data sheet cannot be a "controlled document". Current revisions, if any, to these specifications are maintained at the factory and are available upon your request. We recommend checking the revision level before finalization of your design documentation.

EL5123C, EL5223C, EL5323C, EL5423C**12MHz 4, 8, 10 & 12 Channel Rail-to-Rail Input-Output Buffers****General Disclaimer**

Specifications contained in this data sheet are in effect as of the publication date shown. Elantec, Inc. reserves the right to make changes in the circuitry or specifications contained herein at any time without notice. Elantec, Inc. assumes no responsibility for the use of any circuits described herein and makes no representations that they are free from patent infringement.

élantec

HIGH PERFORMANCE ANALOG INTEGRATED CIRCUITS

Elantec Semiconductor, Inc.

675 Trade Zone Blvd.
Milpitas, CA 95035
Telephone: (408) 945-1323
(888) ELANTEC
Fax: (408) 945-9305
European Office: +44-118-977-6020
Japan Technical Center: +81-45-682-5820

WARNING - Life Support Policy

Elantec, Inc. products are not authorized for and should not be used within Life Support Systems without the specific written consent of Elantec, Inc. Life Support systems are equipment intended to support or sustain life and whose failure to perform when properly used in accordance with instructions provided can be reasonably expected to result in significant personal injury or death. Users contemplating application of Elantec, Inc. Products in Life Support Systems are requested to contact Elantec, Inc. factory headquarters to establish suitable terms & conditions for these applications. Elantec, Inc.'s warranty is limited to replacement of defective components and does not cover injury to persons or property or other consequential damages.