

EL5123C, EL5223C, EL5323C, EL5423C - Product Brief 12MHz 4-, 8-, 10- & 12-Channel Rail-to-Rail Input-Output Buffers

Features

- 12MHz -3dB bandwidth
- Supply voltage = 4.5V to 16.5V
- Low supply current (per buffer) = 600µA
- High slew rate = $15V/\mu s$
- 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

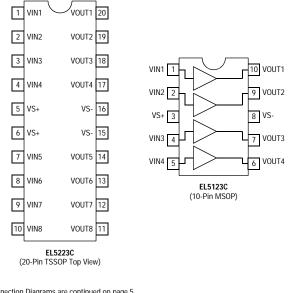
Part No	Package	Tape & Reel	Outline #
EL5123CY	10-Pin MSOP		MDP0043
EL5223CL	24-Pin LPP		MDP0046
EL5223CR	20-Pin TSSOP		MDP0044
EL5323CL	24-Pin LPP		MDP0046
EL5323CR	24-Pin TSSOP		MDP0044
EL5423CL	32-Pin LPP		MDP0046
EL5423CL	28-Pin TSSOP		MDP0044

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



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.

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General Disclaimer

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