

## NC7S14

# TinyLogic HS Inverter with Schmitt Trigger Input

## Product Overview

For complete documentation, see the data sheet.

The NC7S14 is a single high performance CMOS Inverter with Schmitt Trigger input. The circuit design provides hysteresis between the positive-going and negative going input thresholds thereby improving noise margins. Advanced Silicon Gate CMOS fabrication assures high speed and low power circuit operation over a broad VCC range. ESD protection diodes inherently guard both input and output with respect to the VCC and GND rails.

## Features

- Space saving SOT23 or SC70 5-lead package
- Ultra small MicroPak™ leadless package
- Schmitt input hysteresis: > 1V typ
- High speed: t<sub>PD</sub> 4.5 ns typ
- Low quiescent power: I<sub>CC</sub> < 1 μA
- Balanced output drive: 2 mA IOL, -2 mA IOH
- Broad VCC operating range: 2V - 6V
- Balanced propagation delays
- Specified for 3V operation

## Applications

- This product is general usage and suitable for many different applications.

## Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Channels	Output	V <sub>CC</sub> Min (V)	V <sub>CC</sub> Max (V)	t <sub>pd</sub> Max (ns)	I <sub>O</sub> Max (mA)	Package Type
NC7S14L6X-L22175	0.0931		NEW	1	CMOS	2	6	4.5	2.6	SIP-6
NC7S14M5X-L22090	0.0684		Active	1	CMOS	2	6	4.5	2.6	SOT-23-5
NC7S14P5X-L22057	0.0567		Active	1	CMOS	2	6	4.5	2.6	SC-88A-5 / SC-70-5