

NC7S14 TinyLogic® HS Inverter with Schmitt Trigger Input

General Description

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 V_{CC} range. ESD protection diodes inherently guard both input and output with respect to the V_{CC} 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_{PD} 4.5 ns typ
- Low quiescent power: $I_{CC} < 1 \mu A$
- Balanced output drive: 2 mA I_{OL} , -2 mA I_{OH}
- Broad V_{CC} operating range: 2V – 6V
- Balanced propagation delays
- Specified for 3V operation

Ordering Code:

Order Number	Package Number	Package Top Mark	Package Description	Supplied As
NC7S14M5X	MA05B	7S14	5-Lead SOT23, JEDEC MO-178, 1.6mm	3k Units on Tape and Reel
NC7S14P5X	MAA05A	S14	5-Lead SC70, EIAJ SC-88a, 1.25mm Wide	3k Units on Tape and Reel
NC7S14L6X	MAC06A	UU	6-Lead MicroPak, 1.0mm Wide	5k Units on Tape and Reel

Logic Symbol



Pin Descriptions

Pin Names	Description
A	Input
Y	Output
NC	No Connect

Function Table

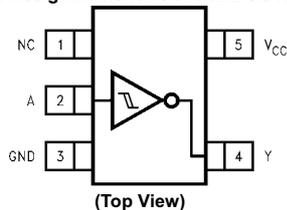
$$Y = \bar{A}$$

Input	Output
A	Y
L	H
H	L

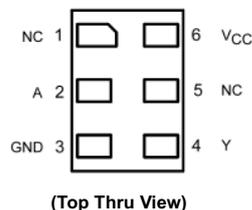
H = HIGH Logic Level
L = LOW Logic Level

Connection Diagrams

Pin Assignments for SC70 and SOT23



Pad Assignments for MicroPak



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