

Product Overview

NC7S00: TinyLogic HS 2-Input NAND Gate

For complete documentation, see the data sheet.

The NC7S00 is a single 2-Input high performance CMOS NAND Gate. 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 inputs and output with respect to the V_{CC} and GND rails. Three stages of gain between inputs and output assures high noise immunity and reduced sensitivity to input edge rate.

Features

- Space saving SOT23 or SC70 5-lead package
- Ultra small MicroPak™ leadless package
- High speed: t_{PD} 3.5 ns typ
- Low Quiescent Power: I_{CC} < 1 μ 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

Applications

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

Part Electrical Specifications

Product	Compliance	Status	Type	Channels	V_{CC} Min (V)	V_{CC} Max (V)	t_{pd} Max (ns)	I_o Max (mA)	Package Type
NC7S00L6X	Pb-free	Active	NAND	1	2	6	3.5	2.6	SIP-6
	Halide free								
NC7S00M5X	Pb-free	Active	NAND	1	2	6	3.5	2.6	SOT-23-5
	Halide free								
NC7S00P5X	Pb-free	Active	NAND	1	2	6	3.5	2.6	SC-88A-5 / SC-70-5
	Halide free								

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