

Product Overview

NC7SZ14: TinyLogic UHS Inverter with Schmitt Trigger Input

For complete documentation, see the data sheet.

The NC7SZ14 is a single inverter with Schmitt trigger input from ON Semiconductor's Ultra-High Speed (UHS) series of TinyLogic®. The device is fabricated with advanced CMOS technology to achieve ultra-high speed with high output drive while maintaining low static power dissipation over a very broad VCC operating range. The device is specified to operate over the 1.65V to 5.5V VCC range. The inputs and outputs are high-impedance when VCC is 0V. Inputs tolerate voltages up to 6V independent of VCC operating voltage.

Features

- Ultra-High Speed: t_{PD} 3.7ns (Typical) into 50pF at 5V VCC
- High Output Drive: ±24mA at 3V VCC
- Broad VCC Operating Range: 1.65V to 5.5V
- Matches Performance of LCX when Operated at 3.3V VCC
- Power Down High Impedance Inputs/Outputs
- Over-Voltage Tolerance Inputs Facilitate 5V to 3V Translation
- Proprietary Noise/EMI Reduction Circuitry
- Ultra-Small MicroPak™ Packages
- Space-Saving SOT23 and SC70 Packages

Applications

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

Part Electrical Specifications										
Product	Pricing (\$/Unit)	Compliance	Status	Channels	Output	V _{CC} Min (V)	V _{CC} Max (V)	t _{pd} Max (ns)	I _O Max (mA)	Package Type
NC7SZ14FHX	0.228	Pb-free Halide free non AEC-Q and PPAP	Active	1	CMOS	1.65	5.5	3.7	32	UDFN-6
NC7SZ14L6X	0.1413	Pb-free Halide free non AEC-Q and PPAP	Active	1	CMOS	1.65	5.5	3.7	32	SIP-6
NC7SZ14M5X	0.0688	Pb-free Halide free non AEC-Q and PPAP	Active	1	CMOS	1.65	5.5	3.7	32	SC-74A
NC7SZ14P5X	0.0516	Pb-free Halide free non AEC-Q and PPAP	Active	1	CMOS	1.65	5.5	3.7	32	SC-88A / SC-70-5

For more information please contact your local sales support at www.onsemi.com.

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