

Product Overview

NC7NP34: TinyLogic ULP Triple Buffer

For complete documentation, see the data sheet.

The NC7NP34 is a triple buffer from Fairchild's Ultra Low Power (ULP) Series of TinyLogic®. Ideal for applications where battery life is critical, this product is designed for ultra low power consumption within the VCC operating range of 0.9V to 3.6V VCC. The internal circuit is composed of a minimum of inverter stages, including the output buffer, to enable ultra low static and dynamic power. The NC7NP34 is designed for optimized power and speed, and is fabricated with an advanced CMOS technology to achieve high speed, low noise operation while maintaining extremely low CMOS power dissipation.

Features

- Space saving US8 package
- Ultra small MicroPak™ Pb-Free package
- 0.9V to 3.6V VCC supply operation
- 3.6V overvoltage tolerant I/O's at VCC from 0.9V to 3.6V
- tPD 4.0 ns typ for 3.0V to 3.6V VCC 5.0 ns typ for 2.3V to 2.7V VCC 6.0 ns typ for 1.65V to 1.95V VCC 7.0 ns typ for 1.40V to 1.60V VCC 11.0 ns typ for 1.10V to 1.30V VCC 27.0 ns typ for 0.90V VCC
- Power-Off high impedance inputs and outputs
- Static Drive (IOH/IOL) ±2.6 mA @ 3.00V VCC ±2.1 mA @ 2.30V VCC ±1.5 mA @ 1.65V VCC ±1.0 mA @ 1.40V VCC ±0.5 mA @ 1.10V VCC ±20 µA @ 0.9V VCC
- Low noise switching using design techniques of Quiet Series™ noise/EMI reduction circuitry
- Ultra low dynamic power

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
NC7NP34K8X	Pb-free	Active	Buffer	3	0.9	3.6	5	2.6	US8
	Halide free								
NC7NP34L8X	Pb-free	Active	Buffer	3	0.9	3.6	5	2.6	UQFN-8
	Halide free								

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

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