

## NC7SV126

# TinyLogic ULP-A Buffer with 3-STATE Output

## Product Overview

For complete documentation, see the data sheet.

The NC7SV126 is a single buffer with 3-STATE output from ON Semiconductor's Ultra-Low Power-A (ULP-A) Series of TinyLogic®. ULP-A is ideal for applications that require extreme high speed, high drive, and low power. This product is designed for a wide low-voltage operating range (0.9V to 3.6V VCC) and applications that require more drive and speed than the TinyLogic ULP series, but still offer best in class low power operation. The NC7SV126 is uniquely designed for optimized power and speed, and is fabricated with an advanced CMOS technology to achieve high-speed operation while maintaining low CMOS power dissipation.

## Features

- 0.9V to 3.6V VCC Supply Operation
- 3.6V Over-Voltage Tolerant I/O's at VCC from 0.9V to 3.6V
- Extremely High Speed tPD
- 1.0ns: Typical for 2.7V to 3.6V VCC
- 1.8ns: Typical for 2.3V to 2.7V VCC
- 3.0ns: Typical for 1.65V to 1.95V VCC
- 3.5ns: Typical for 1.4V to 1.6V VCC
- 6.0ns: Typical for 1.1V to 1.3V VCC
- 13.0ns: Typical for 0.9V VCC
- Power-Off High-Impedance Inputs and Outputs

For more features, see the data sheet

## 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
NC7SV126P5X	0.0627		Active	1	3-State	0.9	3.6	1	24	SC-88A-5 / SC-70-5