

Product Overview

NC7SZ386: TinyLogic UHS 3-Input Exclusive-OR Gate

For complete documentation, see the data sheet.

The NC7SZ386 is a single 3-Input Exclusive-OR Gate from Fairchild's Ultra High Speed 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 V_{CC} operating range. The device is specified to operate over the 1.65V to 5.5V V_{CC} range. The inputs and output are high impedance when V_{CC} is 0V. Inputs tolerate voltages up to 7V independent of V_{CC} operating voltage.

Features

- Space saving SC70 6-lead package
- Ultra small MicroPak™ leadless package
- Ultra High Speed; t_{PD} 2.9 ns typ into 50 pF at 5V V_{CC}
- High Output Drive; ± 24 mA at 3V V_{CC}
- Broad V_{CC} Operating Range; 1.65V to 5.5V
- Power down high impedance inputs/output
- Overvoltage tolerant inputs facilitate 5V to 3V translation
- Patented noise/EMI reduction circuitry implemented

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
NC7SZ386L6X	Pb-free	Active	XOR	1	1.65	5.5	4.8	32	SIP-6
	Halide free								
NC7SZ386P6X	Pb-free	Active	XOR	1	1.65	5.5	4.8	32	SC-88-6 / SC-70-6 / SOT-363-6
	Halide free								

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