

## NC7ST32

# TinyLogic HST 2-Input OR Gate

## Product Overview

For complete documentation, see the data sheet.

The NC7ST32 is a single 2-Input high performance CMOS OR Gate, with TTL-compatible inputs. Advanced Silicon Gate CMOS fabrication assures high speed and low power circuit operation. ESD protection diodes inherently guard both inputs and output with respect to the VCC and GND rails. High gain circuitry offers high noise immunity and reduced sensitivity to input edge rate. The TTL-compatible inputs facilitate TTL to NMOS/CMOS interfacing. Device performance is similar to MM74HCT but with ½ the output current drive of HC/HCT.

## Features

- Space saving SOT23 or SC70 5-lead package
- Ultra small MicroPak™ leadless package
- High Speed;  $t_{PD} \approx 7$  ns typ,  $V_{CC} = 5V$ ,  $CL = 15$  pF
- Low Quiescent Power;  $I_{CC} \approx 1$   $\mu A$  typ,  $V_{CC} = 5.5V$
- Balanced Output Drive; 2 mA IOL, -2 mA IOH
- TTL-compatible inputs

## Applications

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

## Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Type	Channels	$V_{CC}$ Min (V)	$V_{CC}$ Max (V)	$t_{pd}$ Max (ns)	$I_o$ Max (mA)	Package Type
NC7ST32L6X	0.0928		Active	OR	1	4.5	5.5	6.1	2	SIP-6
NC7ST32M5X	0.0707		Active	OR	1	4.5	5.5	6.1	2	SC-74A
NC7ST32P5X	0.0516		Active	OR	1	4.5	5.5	6.1	2	SC-88A / SC-70-5