

查询"74HC7266D.T"供应商
QUAD 2-INPUT EXCLUSIVE-NOR GATE

FEATURES

- Output capability: standard
- I_{CC} category: SSI

GENERAL DESCRIPTION

The 74HC7266 are high speed Si-gate CMOS devices and are pin compatible with low power Schottky TTL (LSSTTL). They are specified in compliance with JEDEC standard no. 7A.

The 74HC7266 provide the EXCLUSIVE-NOR function with active push-pull output.

SYMBOL	PARAMETER	CONDITIONS	TYPICAL	UNIT
			HC	
t _{PHL} / t _{PLH}	propagation delay nA, nB to nY	C _L = 15 pF V _{CC} = 5 V	11	ns
C _I	input capacitance		3.5	pF
C _{PD}	power dissipation capacitance per gate	note 1	17	pF

GND = 0 V; T_{amb} = 25 °C; t_r = t_f = 6 ns

Notes

1. C_{PD} is used to determine the dynamic power dissipation (P_D in μW):

$$P_D = C_{PD} \times V_{CC}^2 \times f_i + \sum (C_L \times V_{CC}^2 \times f_o) \text{ where:}$$

- f_i = input frequency in MHz
- f_o = output frequency in MHz
- Σ (C_L × V_{CC}² × f_o) = sum of outputs
- C_L = output load capacitance in pF
- V_{CC} = supply voltage in V

2. For HC the condition is V_I = GND to V_{CC}
For HCT the condition is V_I = GND to V_{CC} - 1.5 V

PACKAGE OUTLINES

- 14-lead DIL; plastic (SOT27).
- 14-lead mini-pack; plastic (SO14; SOT108A).

PIN DESCRIPTION

PIN NO.	SYMBOL	NAME AND FUNCTION
1, 5, 8, 12	1A to 4A	data inputs
2, 6, 9, 13	1B to 4B	data inputs
3, 4, 10, 11	1Y to 4Y	data outputs
7	GND	ground (0 V)
14	V _{CC}	positive supply voltage

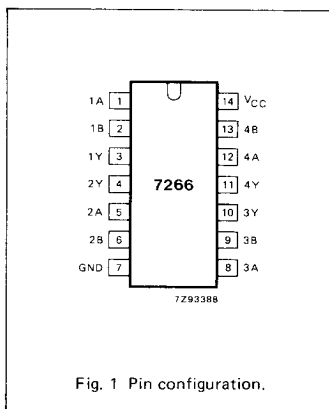


Fig. 1 Pin configuration.

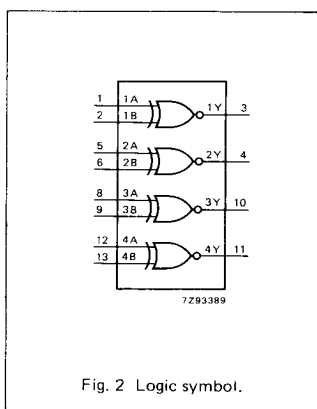


Fig. 2 Logic symbol.

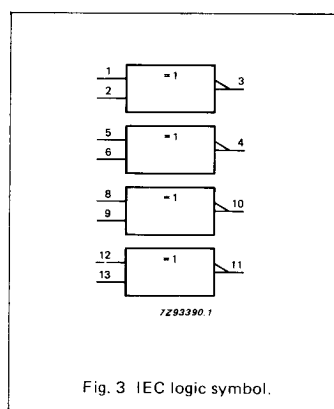
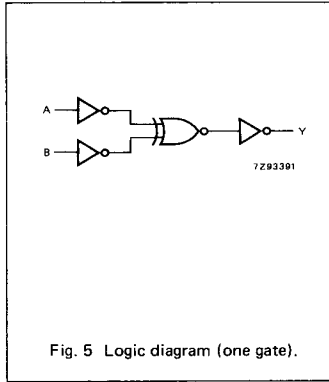
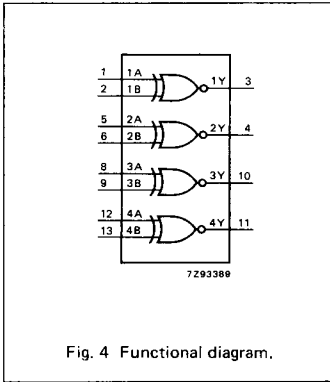


Fig. 3 IEC logic symbol.

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FUNCTION TABLE

INPUTS		OUTPUT
nA	nB	nY
L	L	H
L	H	L
H	L	L
H	H	H

H = HIGH voltage level
L = LOW voltage level

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DC CHARACTERISTICS FOR 74HC

For the DC characteristics see chapter "HCMOS family characteristics", section "Family specifications".

Output capability: standard

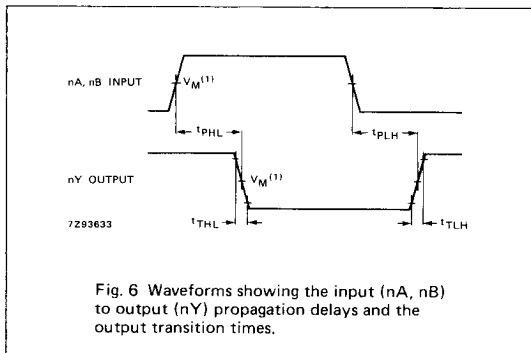
I_{CC} category: SSI

AC CHARACTERISTICS FOR 74HC

GND = 0 V; t_r = t_f = 6 ns; C_L = 50 pF

SYMBOL	PARAMETER	T _{amb} (°C)						UNIT	TEST CONDITIONS		
		74HC							V _{CC} V	WAVEFORMS	
		+25			-40 to +85		-40 to +125				
		min.	typ.	max.	min.	max.	min.				max.
t _{PHL} / t _{PLH}	propagation delay nA, nB to nY		39 14 11	115 23 20		145 29 25		175 35 30	ns	2.0 4.5 6.0	Fig. 6
t _{THL} / t _{TLH}	output transition time		19 7 6	75 15 13		95 19 16		110 22 19	ns	2.0 4.5 6.0	Fig. 6

AC WAVEFORMS



Note to AC waveforms

(1) HC : V_M = 50%; V_I = GND to V_{CC}.