TRANSFER CHARACTERISTIC WAVEFORMS

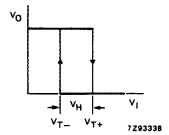

Fig.6 Transfer characteristic.

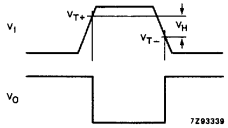

Fig.7 Waveforms showing the definition of V_T+, V_T- and V_H; where V_T+ and V_T- are between limits of 20% and 70%.

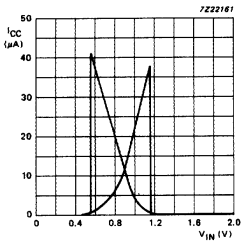

Fig.8 Typical HC transfer characteristics; V_{CC} = 2 V.

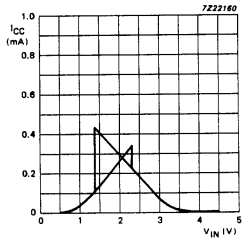

Fig.9 Typical HC transfer characteristics; V_{CC} = 4.5 V.

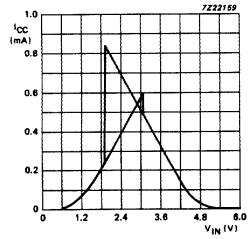

Fig.10 Typical HC transfer characteristics; V_{CC} = 6 V.

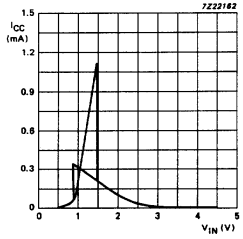

Fig.11 Typical HCT transfer characteristics; V_{CC} = 4.5 V.

DATA SHEET

For a complete data sheet, please also download:

- The IC06 74HC/HCT/HCU/HCMOS Logic Family Specifications
- The IC06 74HC/HCT/HCU/HCMOS Logic Package Information
- The IC06 74HC/HCT/HCU/HCMOS Logic Package Outlines

74HC/HCT14
Hex inverting Schmitt trigger

Product specification
File under Integrated Circuits, IC06

September 1993

Philips
Semiconductors

PHILIPS

PIN DESCRIPTION

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

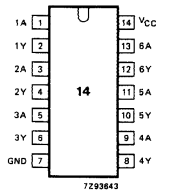

Fig.1 Pin configuration.

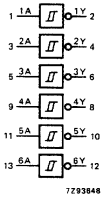

Fig.2 Logic symbol.

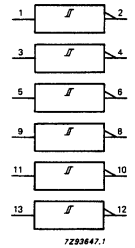

Fig.3 IEC logic symbol.

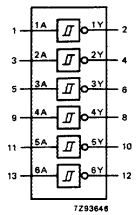

Fig.4 Functional diagram.

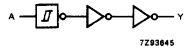

Fig.5 Logic diagram (one Schmitt trigger).

FUNCTION TABLE

INPUT	OUTPUT
nA	nY
L	H
H	L

Notes

1. H = HIGH voltage level
   L = LOW voltage level

APPLICATIONS

- Wave and pulse shapers
- Astable multivibrators
- Monostable multivibrators