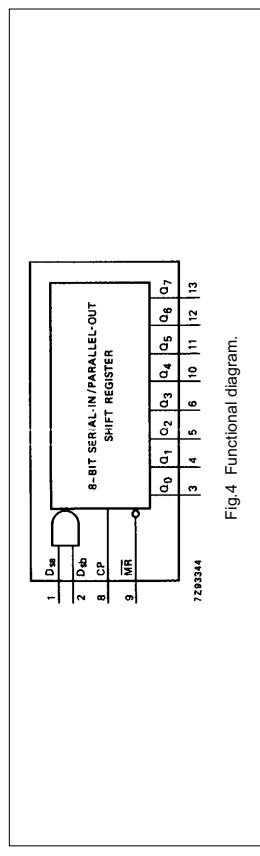


8-bit serial-in/parallel-out shift register 74HC/HCT164



APPLICATIONS

- Serial data transfer

FUNCTION TABLE

OPERATING MODES	INPUTS			OUTPUTS		
	\overline{MR}	CP	D_{sa}	D_{sb}	Q_0	$Q_1 - Q_7$
reset (clear)	L	X	X	X	L	L - L
shift	H	H	h	h	L	q ₀ - q ₆
	H	H	h	h	L	q ₀ - q ₆
	H	H	h	h	H	q ₀ - q ₆

Note

1. H = HIGH voltage level
- h = HIGH voltage level one set-up time prior to the LOW-to-HIGH clock transition
- L = LOW voltage level
- l = LOW voltage level one set-up time prior to the LOW-to-HIGH clock transition
- q = lower case letters indicate the state of the referenced input one set-up time prior to the LOW-to-HIGH clock transition
- ↑ = LOW-to-HIGH clock transition

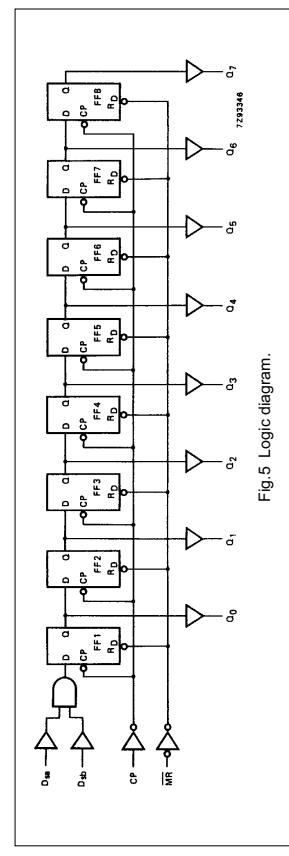


Fig.5 Logic diagram.

DATA SHEET

8-bit serial-in/parallel-out shift register

74HC/HCT164



PIN DESCRIPTION

PIN NO.	SYMBOL	NAME AND FUNCTION
1, 2		data inputs
3, 4, 5, 6, 10, 11, 12, 13		outputs
7	GND	ground (0 V)
8	CP	clock input (LOW-to-HIGH, edge-triggered)
9	MR	master reset input (active LOW)
14	V _{CC}	positive supply voltage

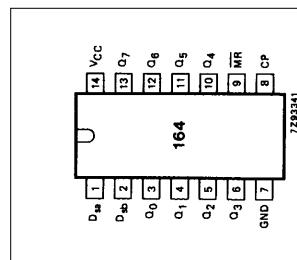


Fig.1 Pin configuration.

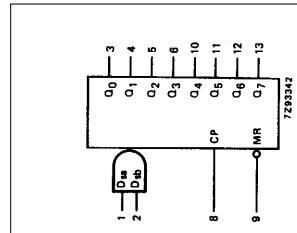


Fig.2 Logic symbol.

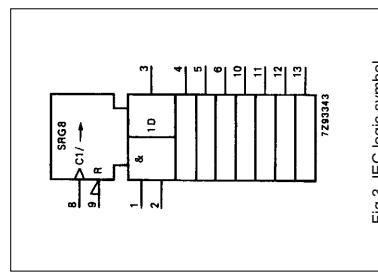


Fig.3 IEC logic symbol.

74HC/HCT164

8-bit serial-in/parallel-out shift register

December 1990

Product specification
File under Integrated Circuits, IC06

Philips
Semiconductors

