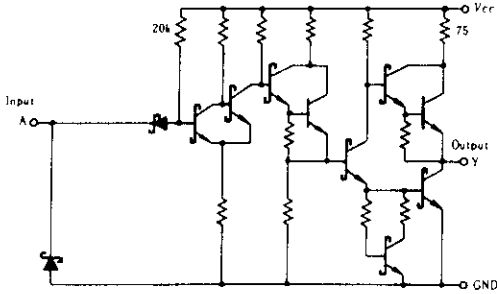
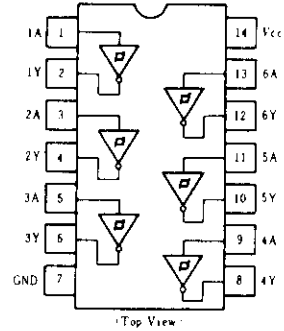


■ CIRCUIT SCHEMATIC (1/6)



■ PIN ARRANGEMENT



■ ELECTRICAL CHARACTERISTICS (Ta = -20 ~ +75°C)

Item	Symbol	Test Conditions	min	typ*	max	Unit	
Input threshold voltage	V_{T^+}	$V_{CC}=5V$	1.4	1.6	1.9	V	
	V_{T^-}	$V_{CC}=5V$	0.5	0.7	1.0	V	
Hysteresis	$V_{T^+} - V_{T^-}$	$V_{CC}=5V$	0.4	0.9	—	V	
Output voltage	V_{OH}	$V_{CC}=4.75V, V_I=0.5V, I_{OH}=-400\mu A$	2.7	—	—	V	
	V_{OL}	$V_{CC}=4.75V, V_I=1.9V$	$I_{OL}=8mA$	—	—	0.50	V
			$I_{OL}=4mA$	—	—	0.40	
Input threshold current	I_{T^+}	$V_{CC}=5V, V_I=V_{T^+}$	—	-0.14	—	mA	
	I_{T^-}	$V_{CC}=5V, V_I=V_{T^-}$	—	-0.18	—	mA	
Input current	I_{IH}	$V_{CC}=5.25V, V_I=2.7V$	—	—	20	μA	
	I_{IL}	$V_{CC}=5.25V, V_I=0.4V$	—	—	-0.4	mA	
	I_I	$V_{CC}=5.25V, V_I=7V$	—	—	0.1	mA	
Short-circuit output current	I_{OS}	$V_{CC}=5.25V$	-20	—	-100	mA	
Supply current	I_{CCN}	$V_{CC}=5.25V$	—	8.6	16	mA	
	I_{CCI}	$V_{CC}=5.25V$	—	12	21	mA	
Input clamp voltage	V_{IK}	$V_{CC}=4.75V, I_{IN}=-18mA$	—	—	-1.5	V	

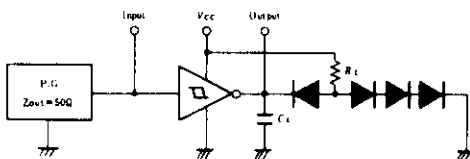
* $V_{CC}=5V, T_a=25^\circ C$

■ SWITCHING CHARACTERISTICS ($V_{CC}=5V, T_a=25^\circ C$)

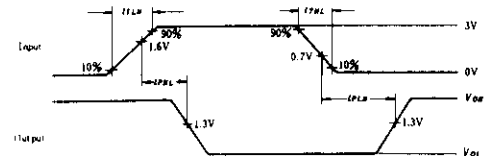
Item	Symbol	Test Conditions	min	typ	max	Unit
Propagation delay time	t_{PLH}	$C_L=15pF, R_L=2k\Omega$	—	15	22	ns
	t_{PHL}		—	15	22	ns

■ TESTING METHOD

1. Test Circuit



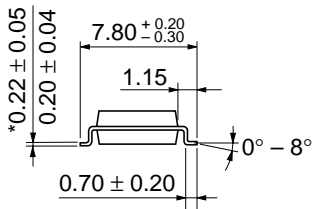
Waveform



- Notes) 1. Input pulse; $t_{TLH} \leq 15ns, t_{THL} \leq 6ns, PRR=1MHz, \text{duty cycle}=50\%$
 2. C_L includes probe and jig capacitance.
 3. All diodes are 1S2074



Hitachi Code	DP-14
JEDEC	Conforms
EIAJ	Conforms
Weight (reference value)	0.97 g



Hitachi Code	FP-14DA
JEDEC	—
EIAJ	Conforms
Weight (reference value)	0.23 g

*Dimension including the plating thickness
Base material dimension



Hitachi Code	FP-14DN
JEDEC	Conforms
EIAJ	Conforms
Weight (reference value)	0.13 g

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HITACHI

Hitachi, Ltd.

Semiconductor & Integrated Circuits.
Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan
Tel: Tokyo (03) 3270-2111 Fax: (03) 3270-5109

URL North America : <http://semiconductor.hitachi.com/>
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For further information write to:

Hitachi Semiconductor
(America) Inc.
179 East Tasman Drive,
San Jose, CA 95134
Tel: <1> (408) 433-1990
Fax: <1> (408) 433-0223

Hitachi Europe GmbH
Electronic components Group
Dornacher Straße 3
D-85622 Feldkirchen, Munich
Germany
Tel: <49> (89) 9 9180-0
Fax: <49> (89) 9 29 30 00

Hitachi Europe Ltd.
Electronic Components Group.
Whitebrook Park
Lower Cookham Road
Maidenhead
Berkshire SL6 8YA, United Kingdom
Tel: <44> (1628) 585000
Fax: <44> (1628) 778322

Hitachi Asia Pte. Ltd.
16 Collyer Quay #20-00
Hitachi Tower
Singapore 049318
Tel: 535-2100
Fax: 535-1533

Hitachi Asia Ltd.
Taipei Branch Office
3F, Hung Kuo Building, No.167,
Tun-Hwa North Road, Taipei (105)
Tel: <886> (2) 2718-3666
Fax: <886> (2) 2718-8180

Hitachi Asia (Hong Kong) Ltd.
Group III (Electronic Components)
7/F., North Tower, World Finance Centre,
Harbour City, Canton Road, Tsim Sha Tsui,
Kowloon, Hong Kong
Tel: <852> (2) 735 9218
Fax: <852> (2) 730 0281
Telex: 40815 HITEC HX

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