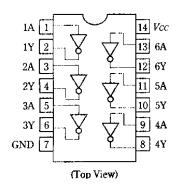
■ PIN ARRANGEMENT



M ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Ratings	Unit
Supply voltage	Vcc	7.0	v
Input voltage	Vin	7.0	V
Output voltage	Vout	30	v
Operating temperature range	Topr	-20 ~ +75	°C
Storage temperature range	Tstg	65 ~ +150	°C

■ RECOMMENDED OPERATING CONDITIONS

Item	Symbol	min	typ	max	Unit
Supply voltage	Vcc	4.75	5.00	5.25	v
High level output voltage	Von	_	-	30	v
Low level output current	IOL	-	-	48	mA
Operating temperature range	Topr	-20	25	75	°C

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

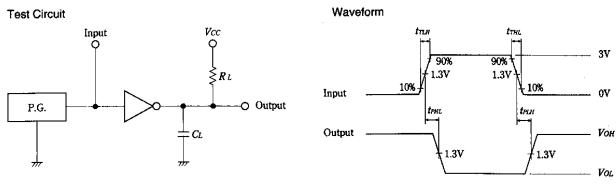
Item	Symbol		Test Conditions		min	typ*	max	Unit
	VIH				2.0	_	_	V
Input voltage	VIL					_	0.8	V
	T/	I/ 1 7637	77 OT7	<i>IoL</i> = 24mA		-	0.4	V
Output voltage	Vol	Vcc = 4.75V,	<i>Viн</i> ≠ 2V	IoL = 48mA			0.5	V
	Іін	$V_{CC} = 5.25V$	$V_{I} = 2.7V$			_	20	μA
Input current	IIL	Vcc = 5.25V,	$V_I = 0.4V$			-	-0.4	mA
	II	Vcc = 5.25V,	V1 = 7V		_		0.1	mA
Output current	Іон	$V_{CC} = 4.75V$,	VIL = 0.8V,	<i>VoH</i> = 30V	-		250	μA
	Іссн	Vcc = 5.25V			T -	23	48	mA
Supply current	ICCL	Vcc = 5.25V			_	21	51	mA
Input clamp voltage	Vik	$V_{CC} = 4.75 \text{V},$	IIN = -18mA			-	-1.5	V

^{*}Vcc = 5V, Ta = 25°C

■ SWITCHING CHARACTERISTICS (Vcc = 5V, Ta = 25°C)

Item	Symbol	Test Conditions	min	typ	max	Unit
	tplh	C. 15-E Dr 1100	-	10	15	ns
Propagation delay time	tehl.	$CL = 15 \text{pF}, RL = 110\Omega$	_	15	23	ns

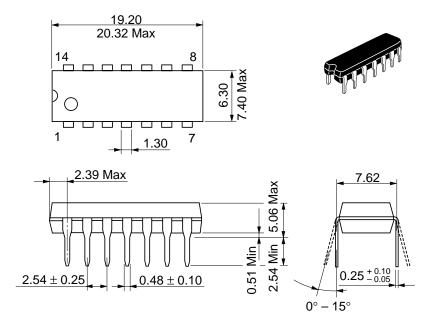
■ TESTING METHOD



Notes) 1. Input pulse: PRR = 1MHz, duty cycle 50%, Zout = 50Ω, trlH≤15ns. trHL≤6ns

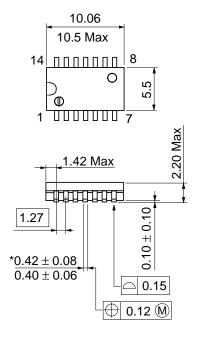
- 2. CL includes probe and jig capacitance.
- 3. All diodes are 1S2074(H)

Unit: mm

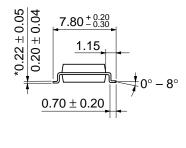


Hitachi Code	DP-14
JEDEC	Conforms
EIAJ	Conforms
Weight (reference value)	0.97 g

Unit: mm

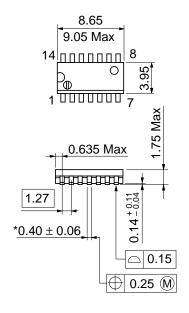


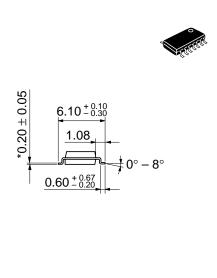




Hitachi Code	FP-14DA
JEDEC	_
EIAJ	Conforms
Weight (reference value)	0.23 g

Unit: mm





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 NorthAmerica : http://eniconductor.hitachi.com/

Europe : http://www.hitachi-eu.com/hel/ecg
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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 Stra§e 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

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

Tel: <852> (2) 735 9218 Fax: <852> (2) 730 0281 Telex: 40815 HITEC HX

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