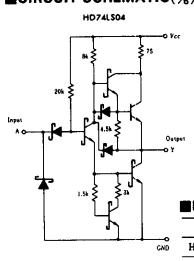
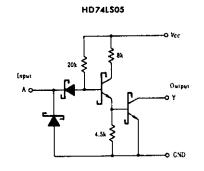
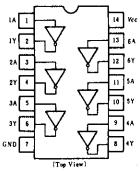
■CIRCUIT SCHEMATIC(1/6)

■PIN ARRANGEMENT







■HD74LS05 RECOMMENDED OPERATING CONDITIONS

Item	Symbol	min	typ	max	Unit
High level output voltage	Voн	_	_	5.5	v
Low level output current	I OL	_	-	8	mA

ELECTRICAL CHARACTERISTICS ($Ta = -20 \sim +75$ °C)

		Test Conditions		HD74LS04			HD74LS05			Unit
Item	Symbol			min	typ*	max	min	typ*	max	זנמט
	ViH			2.0		_	2.0	_	-	V
Input voltage	VIL			T -	_	0.8	1	_	0.8	V
L. 100 (10) (10) (10) (10) (10) (10)	Voн	$V_{CC} = 4.75 \text{V}, V_{IL} = 0.8 \text{V}, I_{OH} = -400 \mu\text{A}$		2.7	<u> </u>	_		-		V
Output voltage	Vol	$V_{CC}=4.75\text{V}, V_{IH}=2\text{V}$	IoL = 8mA	-	_	0.5	_	_	0.5	v
			IoL=4mA	-	-	0.4	_	_	0.4	
Output current	Іон	$V_{CC} = 4.75V, V_{IL} = 0.8V, V_{OH} = 5.5V$			-		_		100	μA
	Ith	$V_{CC} = 5.25 \text{V}, V_I = 2.7 \text{V}$		_	_	20	_	-	20	μΑ
Input current	ItL	Vcc=5.25V, V1=0.4V		-		-0.4	_	<u> </u>	-0.4	m A
- Iı		Vcc=5.25V, V1=7V		1 -	-	0.1	-	_	0.1	m A
Short-circuit output current	los	Vcc=5.25V		-20	_	- 100	_	_		mA
Supply current	Іссн	Vcc=5.25V		T - "	1.2	2.4	_	1.2	2.4	m.A
	Iccı			_	3.6	6.6		3.6	6.6	
Input clamp voltage	Vik	Vcc=4.75V, I _{IN} =-18mA			_	-1.5	_	_	-1.5	`

^{*} VCC=5V, Ta=25°C

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

Item	S	The Control	HD74LS04			HD74LS05			Unit
	Symbol	Test Conditions	min	typ	max	min	typ	max	Unit
	tpl:H	C 15-E - D 01-0		9	15	_	17	32	
Propagation delay time	tphl .	$C_L = 15 \mathrm{pF}, R_L = 2 \mathrm{k} \Omega$	-	10	15	_	15	28	ns

Note) Refer to Test Circuit and Waveform of the Common Item

Unit: mm



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

Unit: mm

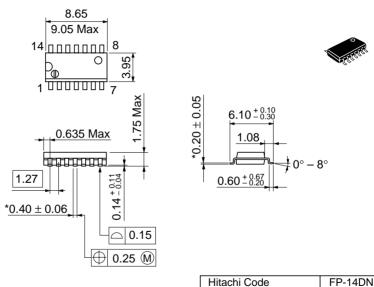


Weight (reference value)

0.23 g

*Dimension including the plating thickness
Base material dimension

Unit: mm



*Pd plating

JEDEC Conforms

EIAJ Conforms

Weight (reference value) 0.13 g

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