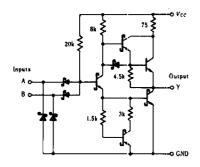
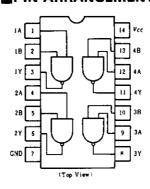
HD74LS00 •Quadruple 2-input Positive NAND Gates

■CIRCUIT SCHEMATIC(1/4)



PIN ARRANGEMENT



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

Item	Symbol	Test Condition	ns	min	typ*	max	Unit
Input voltage	VtH			2.0	-	-	v
	VIL			_		0.8	v
Output voltage	Von	$V_{CC} = 4.75 \text{V}, V_{IL} = 0.8 \text{V},$	$I_{OH} = -400 \mu A$	2.7	-	-	v
		12 4 FFT7 17 OT	IoL=8mA	_	-	0.5	, v
	Vol	$V_{CC}=4.75V, V_{IH}=2V$	IoL=4mA	- 7		0.4	
Input current	Тін	$V_{CC} = 5.25 \text{V}, V_I = 2.7 \text{V}$		_		20	μA
	IIL	$V_{CC} = 5.25 \text{V}, V_{I} = 0.4 \text{V}$			-	-0.4	mΑ
	- It	$V_{CC} = 5.25 \text{V}, V_I = 7 \text{V}$			_	0.1	mA
Short-circuit output current	los	$V_{CC}=5.25V$		- 20	-	- 100	mA
Supply current	Іссн	Vcc=5.25V		_	0.8	1.6	mA
	Iccı	Vcc=5.25V			2;4	4.4	mA
Input clamp voltage	VIK	$V_{CC} = 4.75 \text{V}, I_{IN} = -18 \text{m/s}$		_		-1.5	٧

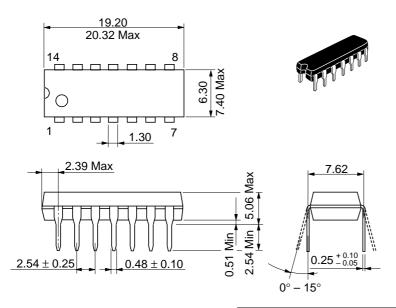
^{*} *V_{CC}*=5V, *Ta*=25°C

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

Item	Symbol	Test Conditions	mia	typ	max	Unit
Propagation delay time	tрын	C-15-F R-910		9	15	ns
rropagation delay time	t PHL	$C_L = 15 \mathrm{pF}, R_L = 2 \mathrm{k}\Omega$	_	10	15	ns

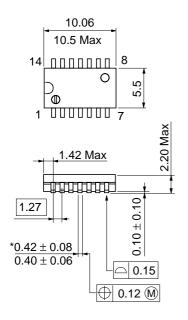
Note) Refer to Test Circuit and Waveform of the Common Item

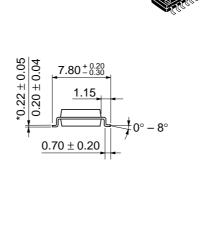
Unit: mm



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

Unit: mm

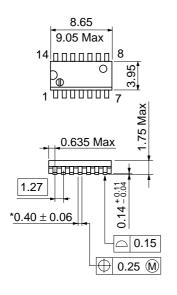


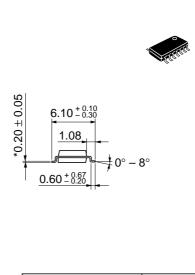


Hitachi Code	FP-14DA
JEDEC	
EIAJ	Conforms
Weight (reference value)	0.23 g

*Dimension including the plating thickness
Base material dimension

Unit: mm





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

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