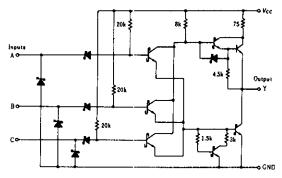
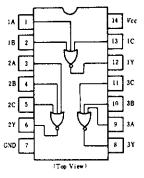
HD74LS27 • Triple 3-input Positive NOR Gates

■CIRCUIT SCHEMATIC(1/3)



PIN ARRANGEMENT



ELECTRICAL CHARACTERISTICS ($Ta = -20 \sim +75^{\circ}C$)

Item	Symbol	Test Condition	ans.	min	typ*	max	Unit
Input voltage	ViH			2.0			
	VIL			-	-	0.8	v
Output voltage	Von	$V_{CC} = 4.75$ V, $V_{IL} = 0.8$ V, $I_{OH} = -400 \mu$ A		2.7	_		
		<u>v _4 25 v v _0 v</u>	IoL = 4mA	-	_	0.4	v
	Vol	$V_{CC} = 4.75 V, V_{IH} = 2 V$	$I_{OL} = 8 \text{mA}$	<u> </u>	-	0.5	
Input current	Іін	$V_{CC} = 5.25 \text{V}, V_l = 2.7 \text{V}$		_	-	20	μA
	In.	$V_{CC} = 5.25 \text{V}, V_l = 0.4 \text{V}$		-	-	-0.4	mA
	- Iı	$V_{cc} = 5.25 V, V_l = 7 V$		-	_	0.1	mA
Short-circuit output current	los	<i>V_{cc}</i> = 5.25V		- 20	-	- 100	mA
Supply current	Іссн	Vcc=5.25V		-	2.0	4.0	mA
	Icc1.	Vcc=5.25V		-	3.4	6.8	mA
Input clamp voltage	Vik	$V_{CC} = 4.75$ V, $I_{LN} = -18$ m	A		_	-1.5	v

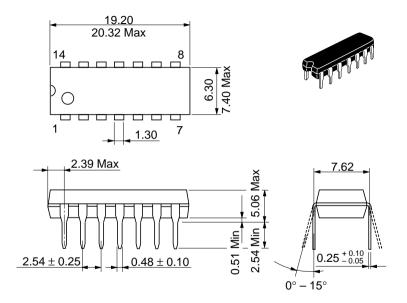
* V_{CC}=5V, Ta=25°C

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

Item	Symbol	Test Conditions	min	typ	max	Unit
Propagation delay time	tPLH	$C_L = 15 \mathrm{pF}, R_L = 2\mathrm{k}\Omega$		10	15	
Tropagation delay time	\$PHL	CL-ISPI, AL-ZKW	-	10	15	ns .

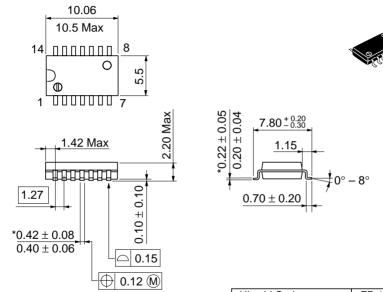
Note) Refer to Test Circuit and Waveform of the Common Item

Unit: mm



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

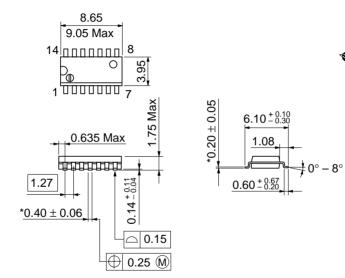
Unit: mm



*Dimension including the plating thickness Base material dimension

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

*Pd plating

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