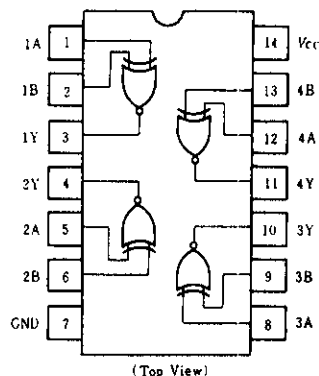


HD74LS266

● Quadruple 2-input Exclusive-NOR Gates
(with open collector outputs)

PIN ARRANGEMENT



FUNCTION TABLE

Inputs		Output
A	B	Y
L	L	H
L	H	L
H	L	L
H	H	H

H; high level, L; low level

RECOMMENDED OPERATING CONDITIONS

Item	Symbol	min	typ	max	Unit
High level output voltage	V_{OH}	—	—	5.5	V
Low level output current	I_{OL}	—	—	8	mA

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

Item	Symbol	Test Conditions	min	typ*	max	Unit
Input voltage	V_{IH}		2.0	—	—	V
	V_{IL}		—	—	0.8	
Output current	I_{OH}	$V_{CC}=4.75\text{V}$, $V_{IH}=2\text{V}$, $V_{IL}=0.8\text{V}$, $V_{OH}=5.5\text{V}$	—	—	100	μA
Output voltage	V_{OL}	$V_{CC}=4.75\text{V}$, $V_{IH}=2\text{V}$, $V_{IL}=0.8\text{V}$	$I_{OL}=4\text{mA}$	—	0.4	V
			$I_{OL}=8\text{mA}$	—	0.5	
Input current	I_{IH}	$V_{CC}=5.25\text{V}$, $V_i=2.7\text{V}$	—	—	40	μA
	I_{IL}	$V_{CC}=5.25\text{V}$, $V_i=0.4\text{V}$	—	—	-0.8	mA
	I_i	$V_{CC}=5.25\text{V}$, $V_i=7\text{V}$	—	—	0.2	mA
Supply current	I_{CC}^{**}	$V_{CC}=5.25\text{V}$	—	8	13	mA
Input clamp voltage	V_{IK}	$V_{CC}=4.75\text{V}$, $I_{IK}=-18\text{mA}$	—	—	-1.5	V

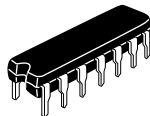
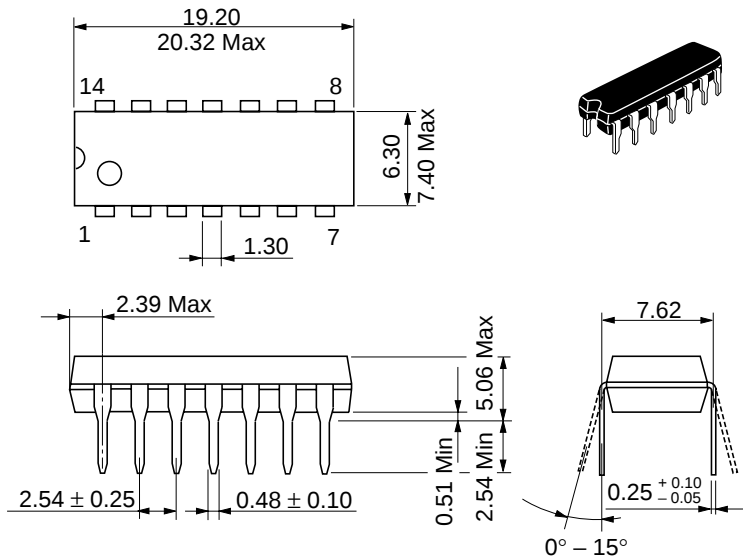
* $V_{CC}=5\text{V}$, $T_a=25^\circ\text{C}$

** I_{CC} is measured with one input of each gate at 4.5V, the other inputs grounded, and the outputs open.

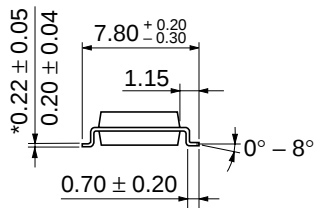
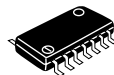
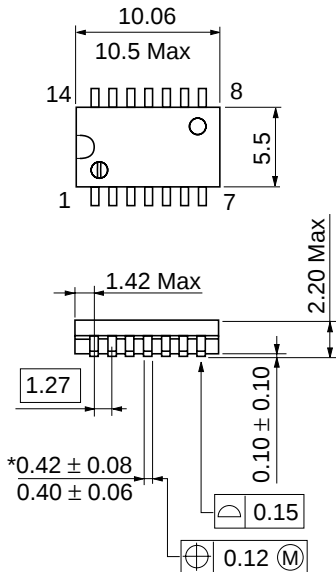
SWITCHING CHARACTERISTICS ($V_{CC}=5\text{V}$, $T_a=25^\circ\text{C}$)

Item	Symbol	Inputs	Test Conditions	min	typ	max	Unit
Propagation delay time	t_{PLH}	A or B	$C_L=15\text{pF}$ $R_L=2\text{k}\Omega$	—	18	30	ns
	t_{PHL}			—	18	30	
	t_{PLH}	A or B		—	18	30	
	t_{PHL}			—	18	30	

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

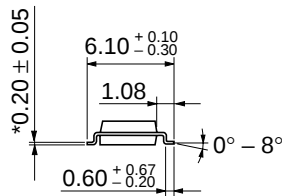
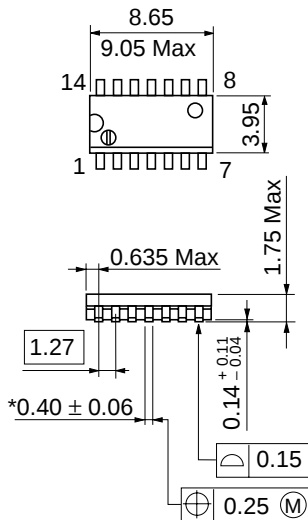


Hitachi Code	DP-14
JEDEC	Conforms
EIAJ	Conforms
Weight (reference value)	0.97 g



*Dimension including the plating thickness
Base material dimension

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



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

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