

HD74LS266

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

REJ03D0472-0200 Rev.2.00 Feb.18.2005

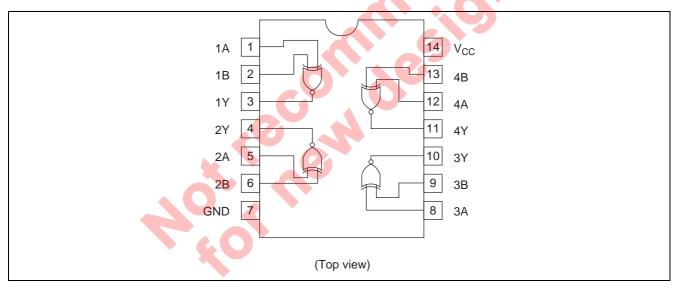
Features

• Ordering Information

Part Name	Package Type	Package Code (Previous Code)	Package Abbreviation	Taping Abbreviation (Quantity)
HD74LS266P	DILP-14 pin	PRDP0014AB-B (DP-14AV)	Р	_
HD74LS266FPEL	SOP-14 pin (JEITA)	PRSP0014DF-B (FP-14DAV)	FP	EL (2,000 pcs/reel)

Note: Please consult the sales office for the above package availability.

Pin Arrangement



Function Table

Inp	Output	
Α	В	Y
L	L	Н
L	Н	L
Н	L	L
Н	Н	Н

H; high level, L; low level

Absolute Maximum Ratings

Item	Symbol	Ratings	Unit	
Supply voltage	V _{CC}	7	V	
Input voltage	V _{IN}	7	V	
Power dissipation	P _T	400	mW	
Storage temperature	Tstg	-65 to +150	°C	

Note: Voltage value, unless otherwise noted, are with respect to network ground terminal.

Recommended Operating Conditions

Item	Symbol	Min	Тур	Max	Unit
Supply voltage	V _{CC}	4.75	5.00	5.25	V
Output voltage	V _{OH}	_	_	5.5	V
Output current	I _{OL}	_	_	8	mA
Operating temperature	Topr	-20	25	75	°C

Electrical Characteristics

 $(Ta = -20 \text{ to } +75 \text{ }^{\circ}\text{C})$

Item	Symbol	min.	typ.*	max.	Unit	Condition
Input voltage	V_{IH}	2.0			V	
input voltage	V _{IL}	_	_	0.8	V	
Output current	I _{OH}		_	100	μΑ	$V_{CC} = 4.75 \text{ V}, V_{IH} = 2 \text{ V}, V_{IL} = 0.8 \text{ V},$ $V_{OH} = 5.5 \text{ V}$
Output voltage	V _{OL}		ĺ	0.4	V	$I_{OL} = 4 \text{ mA}$ $V_{CC} = 4.75 \text{ V}, V_{IH} = 2 \text{ V},$
Output voltage	V OL			0.5		$I_{OL} = 8 \text{ mA}$ $V_{IL} = 0.8 \text{ V}$
	I _{IH}	1		40	μΑ	$V_{CC} = 5.25 \text{ V}, V_{I} = 2.7 \text{ V}$
Input current	Ι _Ι L	_	1	-0.8	mA	$V_{CC} = 5.25 \text{ V}, V_{I} = 0.4 \text{ V}$
	l _l			0.2	mA	$V_{CC} = 5.25 \text{ V}, V_I = 7 \text{ V}$
Supply current	I _{CC} **		8	13	mA	V _{CC} = 5.25 V
Input clamp voltage	V_{IK}	_		-1.5	V	$V_{CC} = 4.75 \text{ V}, I_{IN} = -18 \text{ mA}$

Notes: $^*V_{CC} = 5 \text{ V}$, Ta = 25°C

Switching Characteristics

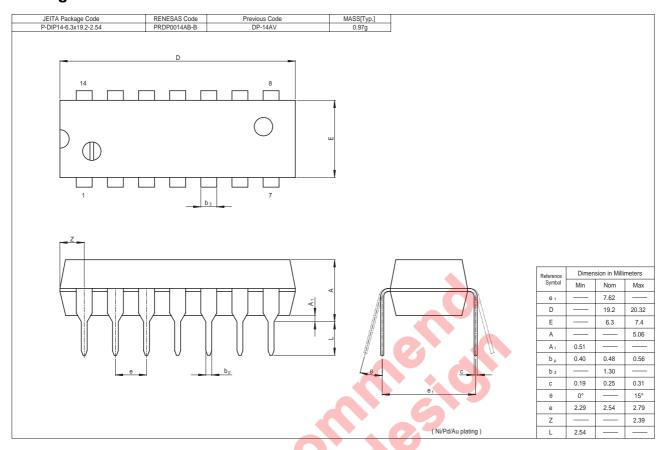
 $(V_{CC} = 5 \text{ V}, \text{ Ta} = 25^{\circ}\text{C})$

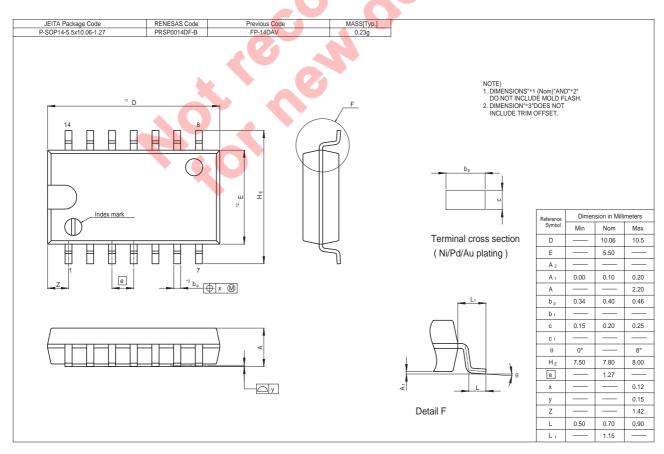
Item	Symbol	Inputs	min.	typ.	max.	Unit	Condition
Propagation delay time	t _{PLH}	A or B	_	18	30	ns	$C_L = 15 \text{ pF}, R_L = 2 \text{ k}\Omega$
	t _{PHL}		_	18	30		
	t _{PLH}	A or B	_	18	30		
	t _{PHL}		_	18	30		

Note: Refer to Test Circuit and Waveform of the Common Item "TTL Common Matter (Document No.: REJ27D0005-0100)".

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

Package Dimensions





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