HD74HC366

Hex Bus Drivers (with 3-state outputs)

ITAC

Features

High Speed Operation: t_{nd} (A to Y) = 9 ns typ ($C_L = 50 \text{ pF}$)

High Output Current: Fanout of 15 LSTTL Loads

Wide Operating Voltage: $V_{CC} = 2$ to 6 V

Low Input Current: 1 µA max

Low Quiescent Supply Current: I_{CC} (static) = 4 μ A max (Ta = 25°C)

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Function Table

Function T	Table		
Inputs			Output
G ₁	$\overline{G_2}$	A COM	Y WWW.100X.CO
H 100	COM-X	X, COM.	Z WWW.100V.CC
X 10	COMH	W.XW.ZOM	Z
LWW 1	OOX. ONE.TW	HIOO TOO	1.1. r M. 100 3
LWW	1001:CO LITT	WW. F 100 X	VI.I.A. H M. 221 700 x.

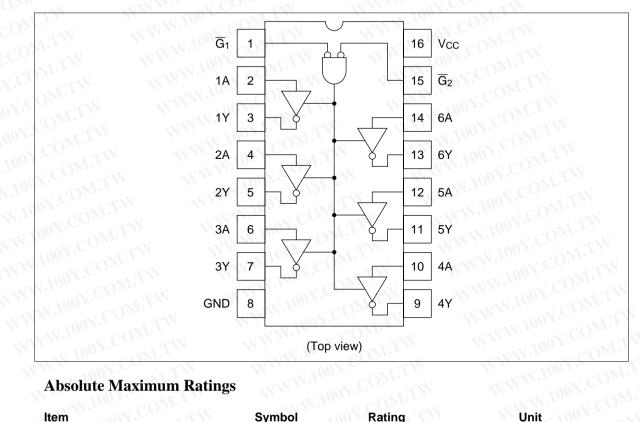
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WWW.100Y.COM.T Off (high-impedance) state of a 3-state output. WWW.100Y.COM.TW 7 WWW.100Y.COM.



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Pin Arrangement



Absolute Maximum Ratings

Absolute Maximum Ratings					
Item COMMON TO THE REPORT OF THE PARTY OF TH	Symbol	Rating	Unit		
Supply voltage range	V _{cc}	-0.5 to +7.0	V 100Y.		
Input voltage	V _{IN}	-0.5 to V_{cc} + 0.5	V 1007.0		
Output voltage	V _{out}	-0.5 to V_{cc} + 0.5	VNW 100Y.C		
DC current drain per pin	I _{OUT}	±35	mA		
DC current drain per V _{cc} , GND	I _{CC} , I _{GND}	±75	mA		
DC input diode current	I _{IK}	\±20	mA		
DC output diode current	I _{ok}	±20	mA		
Power dissipation per package	P_{T}	500	mW		
Storage temperature	Tstg	-65 to +150	°C		

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DC Characteristics

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Ta = -40 toTa = 25°C +85°C

			Ta = 25°C			Ta = -40 to +85°C				
tem	Symbol	V _{cc} (V)	Min	Тур	Max	Min	Max	Unit	Test Condition	ıs
nput voltage	V _{IH}	2.0	1.5	10.2	N	1.5	NW	٧	OV.COM.	W
		4.5	3.15	\overline{M}_{I}	- 1	3.15		NW.Y		
	N T	6.0	4.2	JAC.	E	4.2		WW	TOO Y COM	1.
	V _{IL}	2.0		<u>a</u>	0.5		0.5	٧	1.100 T. COM	(.) T
		4.5	07.	<u></u>	1.35	N	1.35	NY		
CONTY	W	6.0	001		1.8	77	1.8	MAN	W.100Y.C	W.TW
Output voltage	V _{OH}	2.0	1.9	2.0		1.9		٧	$Vin = V_{IH} \text{ or } V_{IL}$	$I_{OH} = -20 \mu A$
		4.5	4.4	4.5	O.	4.4	_	W		
		6.0	5.9	6.0	$\overline{\mathbf{C}_{\mathbf{O}_{D}}}$	5.9	1-	-		COMMITW
		4.5	4.18	5 -03	1 .C O	4.13	c W	_		$I_{OH} = -6 \text{ mA}$
		6.0	5.68	Tan	J.C	5.63		_		$I_{OH} = -7.8 \text{ mA}$
	V _{OL}	2.0	N N	0.0	0.1	OM	0.1	V	$Vin = V_{IH} \text{ or } V_{IL}$	$I_{OL} = 20 \mu A$
		4.5		0.0	0.1	707	0.1	<u>=</u> ≪1		
		6.0	MA	0.0	0.1		0.1	N		
		4.5	MA	-41	0.26	V.	0.33			$I_{OL} = 6 \text{ mA}$
		6.0	-W	M.	0.26	ON IC	0.33	TW		$I_{OL} = 7.8 \text{ mA}$
Off-state output current	l _{oz}	6.0	-7	AN Y	±0.5	OV.You	±5.0	μА	$Vin = V_{IH} \text{ or } V_{IL},$ $Vout = V_{CC} \text{ or } G$	
Input current	lin	6.0	_	11	±0.1	100 >	±1.0	μΑ	Vin = V _{cc} or GN	1D
Quiescent supply current	Icc	6.0	_	7	4.0	1.100	40	μА	Vin = V _{cc} or GN	ID, lout = 0 μA

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AC Characteristics ($C_r = 50 \text{ pF}$, Input $t_r = t_f = 6 \text{ ns}$)

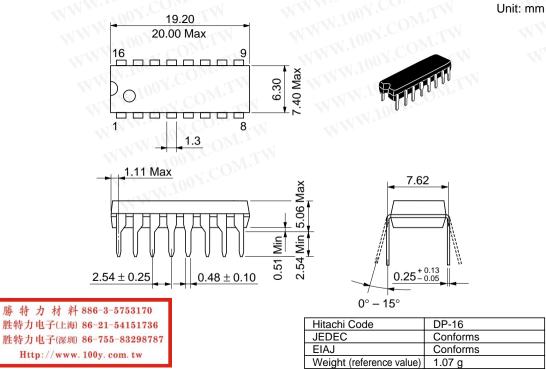
	Symbol	V _{cc} (V)	Ta = 25°C			+85°C		100	
Item			Min	Тур	Max	Min	Max	Unit	Test Conditions
Propagation delay	t _{PLH}	2.0	c o N	10 L	95	_	120	ns	
time	t _{PHL}	4.5	<u></u>	9	19	_	24		
		6.0	. .	A.	16	_	20	WW	
Output enable	t _{zH}	2.0	1.	o N	220		275	ns	1.100 r. COM: 1
time	t _{zL}	4.5	07.	13	44	N_	55		
		6.0	001	<u>. L</u>	37	77	47	MM	
Output disable	t _{HZ}	2.0	100	L	220	TW	275	ns	1 100Y.COM.TI
time	$t_{\scriptscriptstyle LZ}$	4.5	<u>-</u>	15	44	TIME	55	W	
		6.0	1.10	<u></u>	37	- T	47	-	
Output rise/fall	t _{TLH}	2.0	A_{I}	-01	60	Mr	75	ns	WWW. CON. COM
time	t _{THL}	4.5	4	4	12	OD_{I}	15	_	
		6.0	1	100	10	OM	13	_	
Input capacitance	Cin	_ //		5	10	7 01	10	pF	W.100 CO

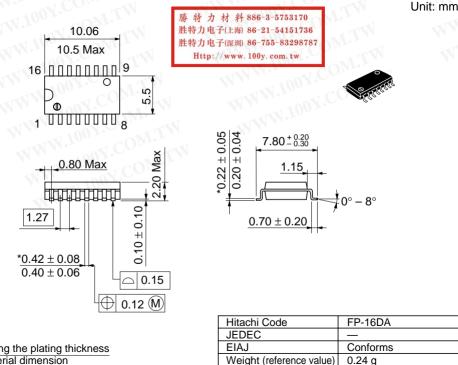
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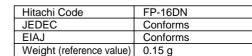




*Dimension including the plating thickness Base material dimension

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Dimension including the plating thickness
Base material dimension



Unit: mm

Cautions

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