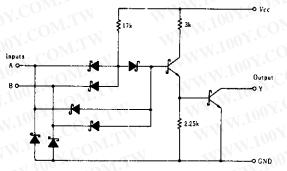
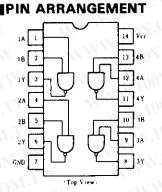
# HD74LS38 •Quadruple 2-input Positive NAND Buffers (with Open Collector Outputs)

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#### RECOMMENDED OPERATING CONDITIONS

Item	Symbol	min	typ	max	Unit
High level output voltage	Voi.	NNT A	-	5.5	v
Low level output current	Io1.	-	N.10	24	mA

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

Item	Symbol	Test Conditions		min	typ*	max	Unit
· · · · · · · · · · · · · · · · · · ·	VIH	N WWW. MY.CC		2.0	- 1	At N	v
Input voltage	VIL			<u> 7 M F</u>	N -	0.8	v
Output voltage	COM.	$V_{OL}$ $V_{CC} = 4.75V, V_{IH} = 2V$	IoL=24mA	041.1		0.5	v
	VOL		<i>Iot.</i> =12mA	Mos		0.4	
Output current	Іон	$V_{CC} = 4.75V, V_I = 0.8V, V_{OH} = 5.5V$			TN	250	μA
WWW.	Ін	$V_{cc} = 5.25 \text{V},  V_l = 2.7 \text{V}$	NN.	I.C.D.	VTr.	20 🚽	μA
Input current	In	$V_{cc} = 5.25 \text{V},  V_i = 0.4 \text{V}$	WW.Io.	10 <sup>5</sup> V	<u></u>	-0.4	mA
	I	$V_{CC} = 5.25 \text{V},  V_l = 7 \text{V}$	W.10		W <sub>T</sub>	0.1	mA
	Іссн	$V_{cc} = 5.25 V$		101- · · ·	0.9	2.0	mA
Supply current	Icci	$V_{cc} = 5.25 V$	NW.	. 17-1.C	6	12	mA
Input clamp voltage	Vik	$V_{cc} = 4.75$ V, $I_{IN} = -18$ mA			202	-1.5	v

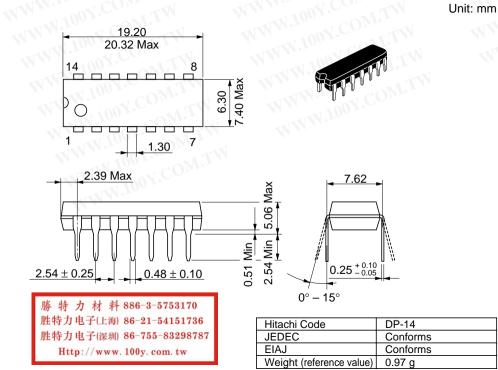
\* V*ĊC*=5V, Ta=25°C

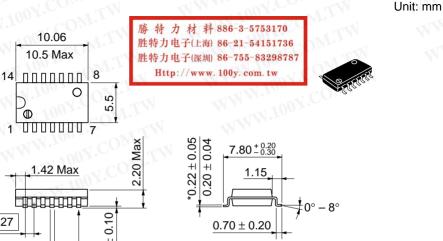
### 勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-54151736 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

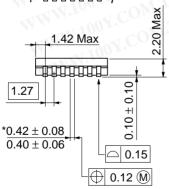
#### **ESWITCHING CHARACTERISTICS** (Vcc = 5V, $Ta = 25^{\circ}C$ )

Item	Symbol	Test Conditions	min	typ	max	Unit
Propagation delay time	$t_{PLH}$ $C_1 = 45 - F_2 - F$	$C_L = 45 \mathrm{pF},  R_L = 667  \Omega$		20	32	ns
r topagation delay thine	<b>t</b> PHL	+	-	18	28	ns

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

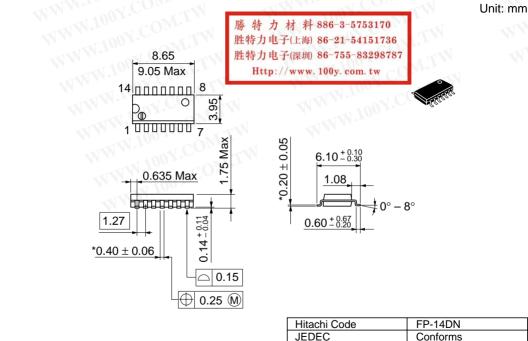






\*Dimension including the plating thickness Base material dimension

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



EIAJ

Weight (reference value)

Conforms

0.13 g

\*Pd plating

### 勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-54151736 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

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