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■BLOCK DIAGRAM(½)

A; • Ø Y; A; • Ø Y; A; • Ø Y; C; • Ø Ø

IFUNCTION TABLE

Inp	Output	
Ğ	A	Y
Н	×	Z
L	Н	Н
L	L	L

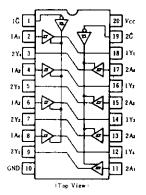
Note) H; high level,

L; low level,

X; irrelevant

Z; off (high-impedance) state of a 3-state output

PIN ARRANGEMENT



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

	ltem	Symbol	Test Conditions		min	typ*	max	Unit	
Input voltage		Vin			2.0			v	
		VIL						0.8	V
Hysteresi	5	$V_T^+ - V_T^-$	$V_{CC} = 4.75 \text{V}$			0.2	0.4		V
Output voltage		Voн	$V_{CC} = 4.75 \text{V}, V_{IR} = 2 \text{V}$	$V_{IL} = 0.8 \text{V}, I_{OH} = -3 \text{tm A}$		2.4			V
				$V_{IL} = 0.5 \text{V}, I_{OH} = -15 \text{mA}$		2.0			
		Vol	$V_{CC} = 4.75 \text{V}, V_{IH} = 2 \text{V},$ $I_{OL} = 12 \text{mA}$ $V_{IL} = 0.8 \text{V}$ $I_{OL} = 24 \text{mA}$		_		0.4		
					IoL = 24mA	_		0.5	V
Output current		Іогн	$V_{CC} = 5.25 \text{V}, V_{IH} = 2 \text{V}, V_{O} = 2.7 \text{V}$ $V_{IL} = 0.8 \text{V} V_{O} = 0.4 \text{V}$		- !		20	μΑ	
		lozu				-	- 20		
Input current		Īгн	$V_{CC} = 5.25 \text{V}, V_I = 2.7 \text{V}$				20	μΑ	
		111.	$V_{CC} = 5.25 \text{V}, V_{I} = 0.4 \text{V}$				-0.2	mΑ	
		- Iı	$V_{CC} = 5.25V, V_I = 7V$				0.1	m A	
Short-cire	uit output current	it output current Ios Vcc=5.25V			40		- 225	mА	
Supply current	Output "H"		$V_{\rm CC} = 5.25 \text{V}$		-	13	23	mA	
	Output "L"	<i>Icc</i>				27	46		
	All outputs disabled					32	54		
Input clamp voltage		Vik	$V_{CC} = 4.75 \text{V}, I_{IN} = -18 \text{mA}$					-1.5	V

[•] V_{CC}=5V, Ta=25°C

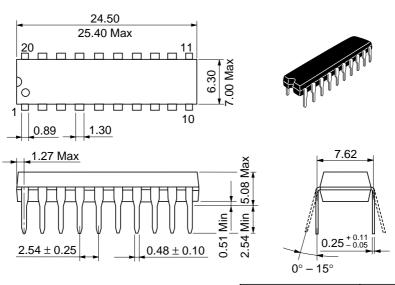
ISWITCHING CHARACTERISTICS ($V_{CC} = 5V$, $T_a = 25^{\circ}C$)

Item	Symbol	Test Conditions	min	typ	max	Unit
Propagation delay time	tpl#		-	12	18	ns
	tral	$C_L=45 \mathrm{pF}, R_L=667 \ \Omega$	-	12	18	
Output enable time	tzL			20	30	ns
	tzn			15	23	ns
Output disable time	t L Z	$C_L = 5 \text{pF}, R_L = 667 \Omega$		15	2 5	ns
	tHZ			10	18	ns

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

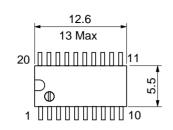
^{**} ICC is measured with all outputs open.

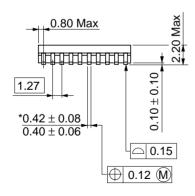
Unit: mm

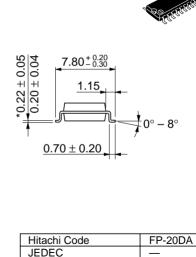


Hitachi Code	DP-20N
JEDEC	_
EIAJ	Conforms
Weight (reference value)	1.26 g

Unit: mm







Weight (reference value)

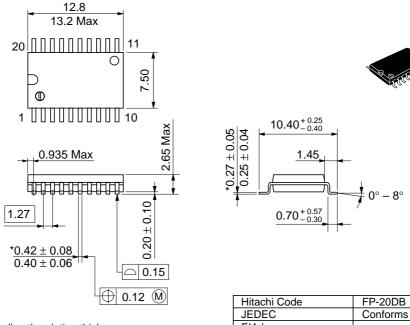
Conforms

0.31 g

EIAJ

*Dimension including the plating thickness
Base material dimension

Unit: mm



*Dimension including the plating thickness

Base material dimension

*EIAJ

Weight (reference value) 0.52 g

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