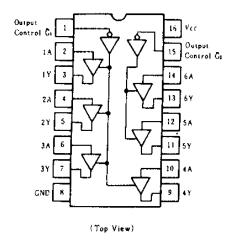
PIN ARRANGEMENT



MASSOLUTE MAXIMUM RATINGS

Item	Symbol	Ratings	Unit	
Supply voltage	Vcc	7.0	V	
Input voltage	V_{IS}	7.0	v	
Output voltage (off-state)	Vocessi	5.5	V	
Operating temperature range	T.,,	-20~+75	*C	
Storage temperature range	T.,,	-65~ +150	' C	

EFUNCTION TABLE

G	A	Y		
Н	X	Z		
L	L	L		
L	H	н		

Note) H; high level, L; low level, X; irrelevant Z; off (high-impedance) state of a 3-state output

TRECOMMENDED OPERATING CONDITIONS

Item	Symbol	min	typ	max	Unit
Output current	Гон	<u></u>	-	-2.6	mA
Output current	101			24	m.A

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

Item	Symbol	Test C	onditions		min	typ*	max	Unit
	VIH				2.0	_	_	V
Input voltage	$\overline{v_n}$				_		0.8	V
	V _{OH}	$V_{CC}=4.75V, V_{IH}=2V, 1$	$V_{IL} = 0.8 \text{V}$	I _{OH} = -2.6mA	2.4		_	V
Output voltage				IoL - 24mA			0.5	V
	Vol	$V_{CC} = 4.75 \text{V}, V_{IH} = 2 \text{V}, 1$	V1L-0.8V	IoL-12mA	_		0.4	
Output current Id		$V_{CC} = 5.25 \text{V}, V_{IH} = 2 \text{V}, V_{IL} = 0.8 \text{V}$ $V_{O} = 0.4 \text{V}$ $V_{O} = 0.4 \text{V}$				20	μΑ	
	Ioz			-		-20		
	I _{IH}	$V_{cc} = 5.25 \text{V}, V_{t} = 2.7 \text{V}$				20	μA	
Input current In.		$V_i = 0.5V, \overline{G} \text{ inputs } 2V$	_		20	μA		
	A inputs $V_{cc} = 5.25V$ $V_i = 0.4V_i$ \overline{G} inputs $0.4V$	inputs 0.4V	_		-0.4	mΑ		
			G inputs Vcc-5.25V, V,-0.4V				-0.4	mA
	I_{l}	$V_{cc} = 5.25 \text{V}, V_i = 7 \text{V}$					0.1	mА
Short-circuit output current	Ios	Vcc-5.25V		-40		-225	mA	
Supply current**	Icc	Vcc-5.25V				14	24	mΑ
Input clamp voltage	VIK	$V_{CC} = 4.75 \text{V}, I_{IN} = -18 \text{mA}$					-1.5	v

^{*} V_{CC}=5V, Ta=25°C

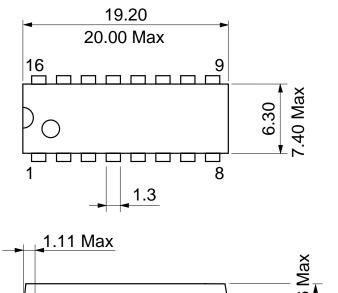
ESWITCHING CHARACTERISTICS (Vcc=5V, $Ta=25^{\circ}C$)

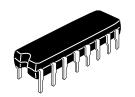
Item	Symbol	Test Conditions	min	typ	max	Unit
	t _{PLH}		_	10	16	
Propagation delay time	\$ PH L	0 15 D 0050		9	22	ns
	tzn	C_{\perp} -45pF, R_{\perp} -667 Ω	_	19	35	
Output enable time	enable time		-	24	40	ns
	t H Z	O F 17 D 6680			30	
Output disable time	tız	C_{L} -5pF, R_{L} -667 Ω	_		35	ns

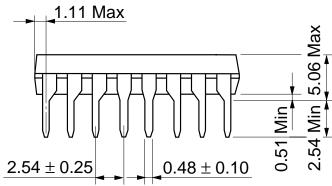
Note) Refer to Test Circuit and Waveform of the Common Item

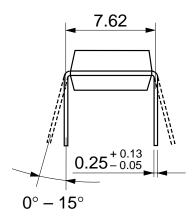
^{**} I_{CC} is measured with data inputs grounded and output control inputs at 4.5V.

Unit: mm



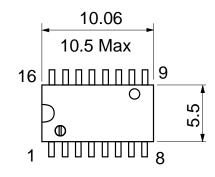


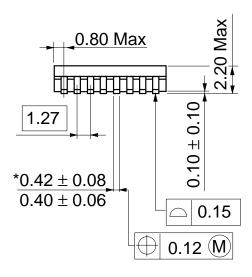




Hitachi Code	DP-16
JEDEC	Conforms
EIAJ	Conforms
Weight (reference value)	1.07 g

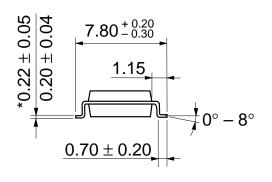
Unit: mm





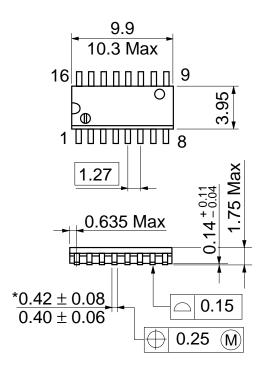
*Dimension including the plating thickness
Base material dimension



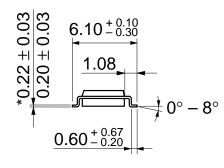


Hitachi Code	FP-16DA
JEDEC	
EIAJ	Conforms
Weight (reference value)	0.24 g

Unit: mm







*Dimension including the plating thickness
Base material dimension

Hitachi Code	FP-16DN
JEDEC	Conforms
EIAJ	Conforms
Weight (reference value)	0.15 g

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