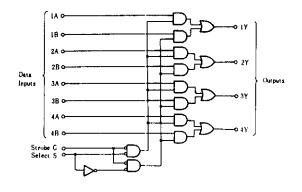
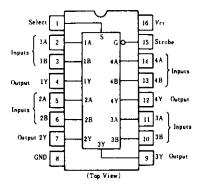
This data selector/multiplexer contains inverters and drivers to supply full on-chip data selection to the four output gates. A separate strobe input is provided. A 4-bit word is selected from one of two sources and is routed to the four outputs. Then, outputs present true data to minimize propagation delay time.

BLOCK DIAGRAM



PIN ARRANGEMENT



FUNCTION TABLE

	Output			
Strobe	Select	A	В	Y
н	×	×	×	L
L	L	L	×	L
L	L	Н	×	н
L	Н	×	L	L
L	Н	×	Н	н

H; high level, L; low level, X; irrelevant

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

Item		Symbol	Test Condition	min	typ*	max	Uni	
Input voltage		Vin			2.0			V
		VIL			-	- 1	0.8	v
Output voltage		Voн	$V_{CC} = 4.75V, V_{IH} = 2V, V_{IL} = 0.8V, I_{OH} = -400\mu A$		2.7	-		v
	-			IoL=4mA	-	_	0.4	v
		VOL	V_{OL} $V_{CC} = 4.75 \text{V}, V_{IH} = 2 \text{V}, V_{IL} = 0.8 \text{V}$	IoL=8mA	-	_	0.5	v
S Input current S A	S , G	T	$V_{cc} = 5.25 \text{V}, V_t = 2.7 \text{V}$		-	-	40	
	<u>S, G</u> A, B	Іін			-	-	20	μA
	S,G		$V_{cc} = 5.25 V, V_i = 0.4 V$		-	-	-0.8	
	A, B	IIL			-		-0.4	mА
	S,G	t.			-	-	0.2	
	A, B	I t	$V_{cc} = 5.25 \text{V}, V_{l} = 7 \text{V}$	-	0.1	mA		
Short-circuit output current. Ios		Ios	$V_{cc} = 5.25 V$		- 20		100	mA
Supply current++		Icc	Vcc=5.25V		-	9.7	16	mA
Input clamp voltage		Vix	$V_{\rm CC} = 4.75 V$, $I_{\rm IN} = -18 {\rm mA}$		-		-1.5	v

* V_{CC}=5V, Ta=25°C

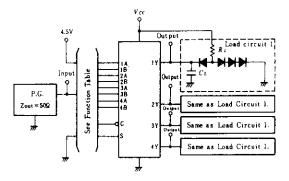
** I_{CC} is measured with all outputs open and all inputs at 4.5V.

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

Item	Symbol	Inputs	Output	Test Conditions	min	typ	max	Unit
Propagation delay time	tрi,н	D	~	$ \begin{array}{c} - & 9 \\ - & 9 \\ - & 9 \\ - & 13 \\ - & 14 \\ \hline Y \\ \end{array} $ $ \begin{array}{c} - & 14 \\ - & 15 \\ - & 18 \\ \end{array} $	-	9	14	ns
	tphi.	Data	I			9	14	ns
	tp1,H	0. 1	v		-	13	20	ns
	tehi.	Strobe	I		14	21	ns	
	tPLH	6 J	v			15	23	ns
	tPHL	Select	1		-	18	27	ns

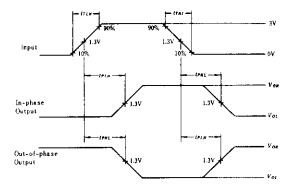
TESTING METHOD

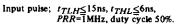
1) Test Circuit

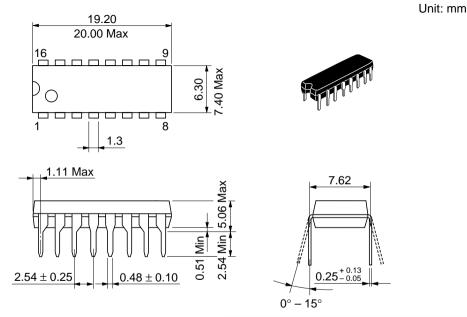


- Notes) 1. C_L includes probe and jig capacitance. 2. All diodes are 1S2074 (H).

Waveform

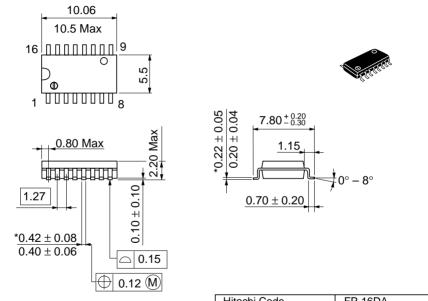






Hitachi Code	DP-16
JEDEC	Conforms
EIAJ	Conforms
Weight (reference value)	1.07 g

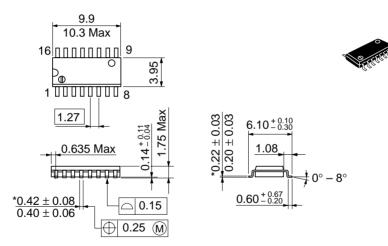
Unit: mm



*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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