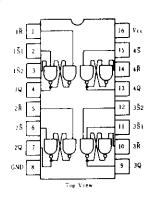
■ BLOCK DIAGRAM(¾)

\$10000 Q

■ PIN ARRANGEMENT



FUNCTION TABLE

Inp	Outputs		
Š••	R	Q	
Н	Н	Q ₀	
L	H	Н	
Н	1.	L	
L	L	H*	

Notes) 1. H; high level, L; low level

- Q₀; The level of Q before the indidicated input conditions were established.
- *; This output level is psodo stable; that is, it may not persist when \$\overline{S}\$ and \$\overline{R}\$ inputs return to their inactive (high) level.
- 4. **; For latches with double \$\overline{S}\$ inputs: H; both \$\overline{S}\$ inputs high, L; one or both \$\overline{S}\$ inputs low.

ELECTRICAL CHARACTERISTICS ($Ta = -20 \sim +75\%$)

Item	Symbol	Test Conditions		min	typ*	max	Unit
	V_{IH}			2.0	_	_	V
Input voltage	V_{II}		•	· -	_	0.8	V
	$V_{\scriptscriptstyle GH}$	$V_{ij} = 4.75 \text{V}, \ V_{iH} = 2 \text{V}, \ V_{iL} = 0.8 \text{V}, \ I_{OH} = -400 \mu\text{A}$				_	v
Output voltage		$V_{cc} = 4.75 \text{V}, V_{th} = 2 \text{V}, V_{tt} = 0.8 \text{V}$	Iot = 4 mA	_	_	0.4	V
	V_{iij}	$v_R = 4.75$ $v_R = 2$ $v_R = 0.8$ $v_R = 0.8$	$I_{0i} = 8 \mathrm{mA}$	_	_	0.5	
	In	$V_{ij} = 5.25 \text{ V}, V_i = 2.7 \text{ V}$		_		20	μA
Input current	In	$V_{CC} = 5.25 \text{ V}, V_{I} = 0.4 \text{ V}$			_	-0.6	mA
	I_{l}	$V_{\rm CC} = 5.25 \mathrm{V}, \ V_{\rm f} = 7 \mathrm{V}$		_		0.1	mA
Short-circuit output current	Ios	$V_{\rm CC} = 5.25 \mathrm{V}$		-20		-100	mΑ
Supply current**	1cc	$V_{\rm ev} = 5.25 \mathrm{V}$		· —	3.8	7	mΑ
Input clamp voltage	V _{IA}	$V_{\rm CC} = 4.75 \text{V}, I_{\rm IN} = -18 \text{mA}$		-	_	. 1.5	V

^{*} VCC=5V. Ta=25°C

SWITCHING CHARACTERISTICS ($V_{cc} = 5V$, $T_a = 25$ °C)

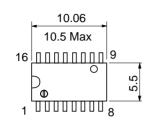
Item	Symbol	Inputs	Output	Test Conditions	min	typ	max	Unit
Propagation delay time	ŧ ₽LH	ē		$C_L = 15 \mathrm{pF},$ $R_L = 2 \mathrm{k}\Omega$		12	22	ns
	t PHI.		Q			13	21	ns
	t PHL	R				15	27	ns

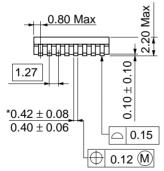
Note) Refer to Test Circuit and Waveform of the Common Item

^{**} I_{CC} is measured with all R inputs grounded, all S inputs at 4.5V, and all outputs open.

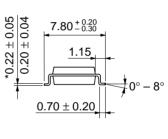
Unit: mm 19.20 20.00 Max 16 7.40 Max 6.30 1.3 1.11 Max 7.62 5.06 Max 2.54 Min 0.51 Min $0.25^{+0.13}_{-0.05}$ 0.48 ± 0.10 2.54 ± 0.25 $0^{\circ} - 15^{\circ}$ Hitachi Code DP-16 **JEDEC** Conforms EIAJ Conforms Weight (reference value) 1.07 g

Unit: mm





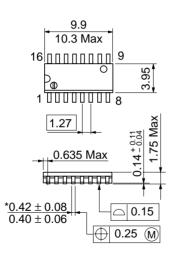


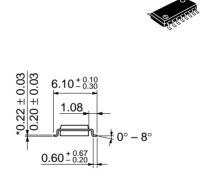


Hitachi Code	FP-16DA
JEDEC	
EIAJ	Conforms
Weight (reference value)	0.24 a

*Dimension including the plating thickness
Base material dimension

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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