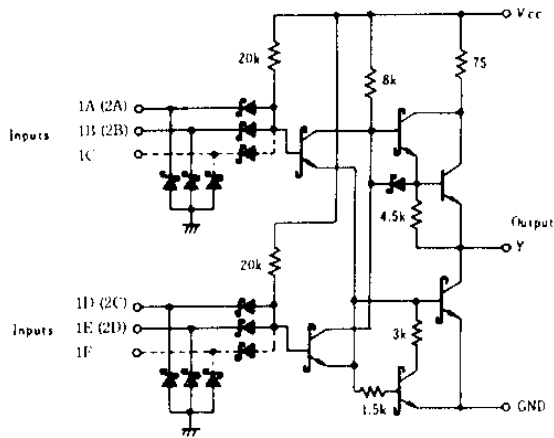
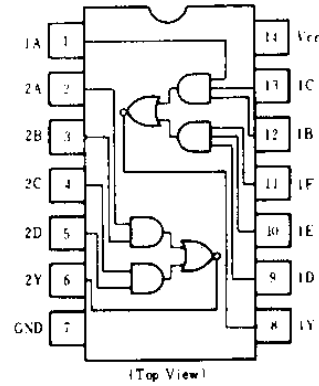


## ■ CIRCUIT SCHEMATIC (1/2)



## ■ PIN ARRANGEMENT



## ■ ELECTRICAL CHARACTERISTICS (Ta = -20 ~ +75°C)

Item	Symbol	Test Conditions	min	typ*	max	Unit	
Input voltage	$V_{IH}$		2.0	—	—	V	
	$V_{IL}$		—	—	0.8	V	
Output voltage	$V_{OH}$	$V_{CC} = 4.75V, V_{IL} = 0.8V, I_{OH} = -400\mu A$	2.7	—	—	V	
	$V_{OL}$	$V_{CC} = 4.75V, V_{IH} = 2V$	$I_{OL} = 8mA$	—	—	0.5	V
			$I_{OL} = 4mA$	—	—	0.4	
Input current	$I_{IH}$	$V_{CC} = 5.25V, V_I = 2.7V$	—	—	20	$\mu A$	
	$I_{IL}$	$V_{CC} = 5.25V, V_I = 0.4V$	—	—	-0.4	mA	
	$I_I$	$V_{CC} = 5.25V, V_I = 7V$	—	—	0.2	mA	
Short-circuit output current	$I_{OS}$	$V_{CC} = 5.25V$	-20	—	-100	mA	
Supply current	$I_{CCH}$	$V_{CC} = 5.25V$	—	0.8	1.6	mA	
	$I_{CCL}$		—	1.4	2.8		
Input clamp voltage	$V_{IK}$	$V_{CC} = 4.75V, I_{IS} = -18mA$	—	—	-1.5	V	

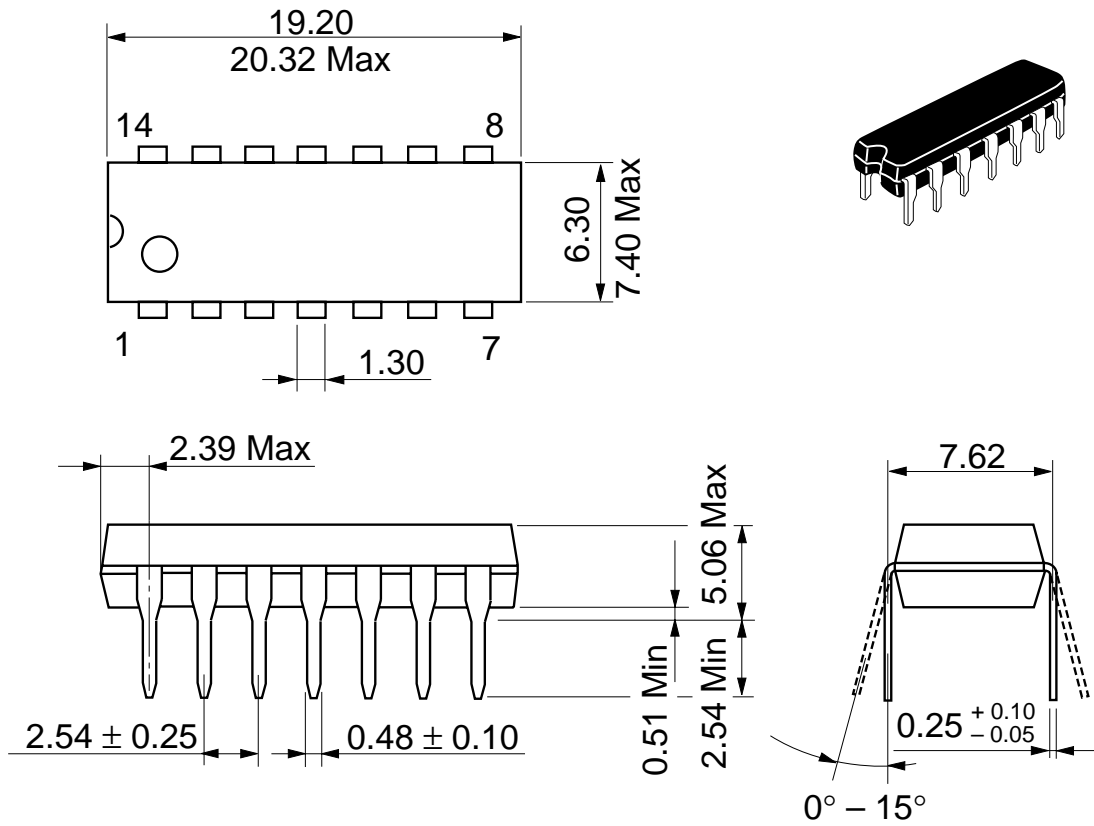
\*  $V_{CC} = 5V, T_a = 25^\circ C$

## ■ SWITCHING CHARACTERISTICS (Vcc = 5V, Ta = 25°C)

Item	Symbol	Test Conditions	min	typ	max	Unit
Propagation delay time	$t_{PLH}$	$C_L = 15pF, R_L = 2k\Omega$	—	12	20	ns
	$t_{PHL}$		—	12.5	20	

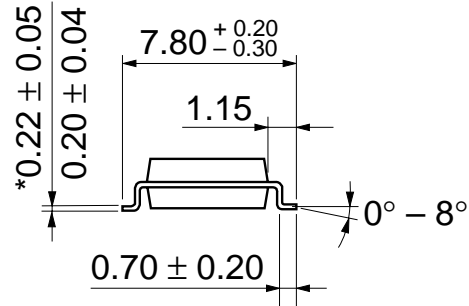
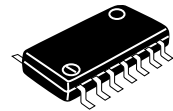
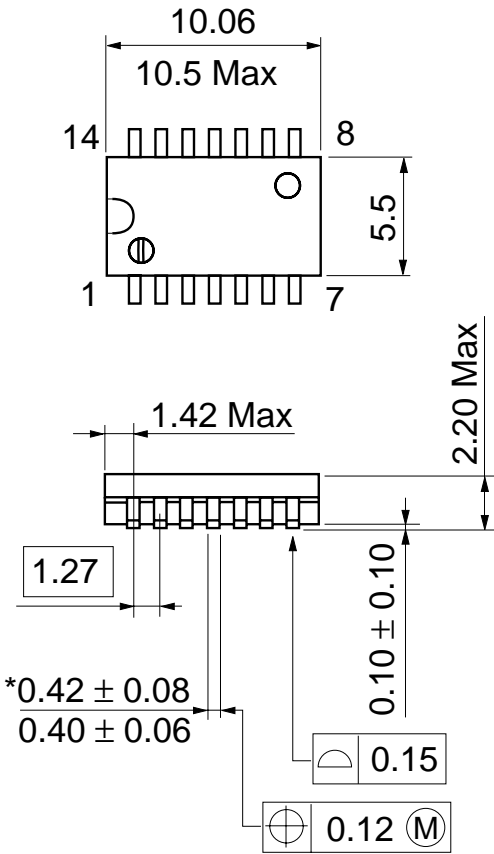
Note) Refer to Test Circuit and Waveform of the Common Item

Unit: mm



Hitachi Code	DP-14
JEDEC	Conforms
EIAJ	Conforms
Weight (reference value)	0.97 g

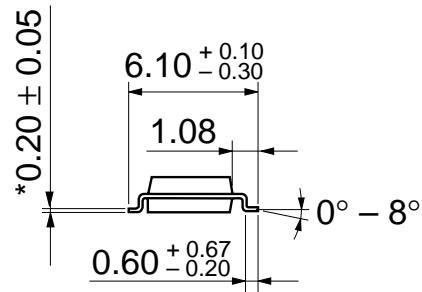
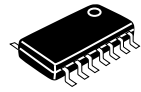
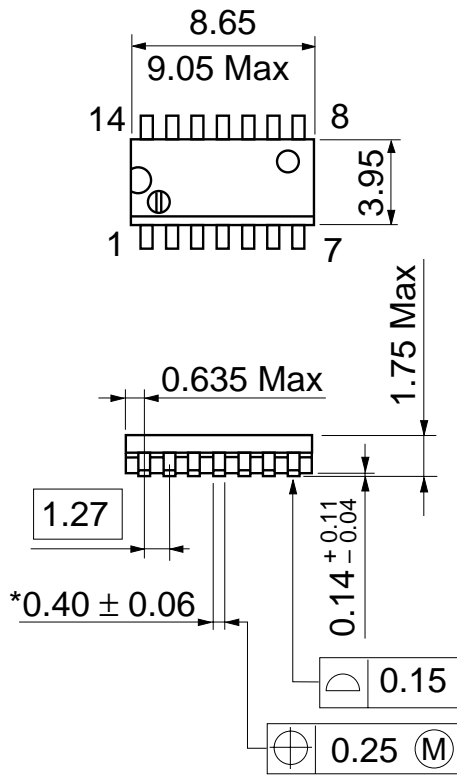
Unit: mm



\*Dimension including the plating thickness  
Base material dimension

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

Unit: mm



Hitachi Code	FP-14DN
JEDEC	Conforms
EIAJ	Conforms
Weight (reference value)	0.13 g

\*Pd plating

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