

HD74AC367/HD74ACT367

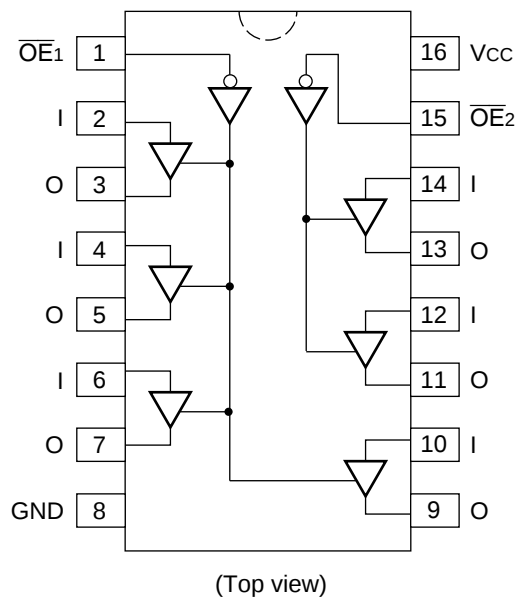
Hex Buffer/Driver with 3-State Output

HITACHI

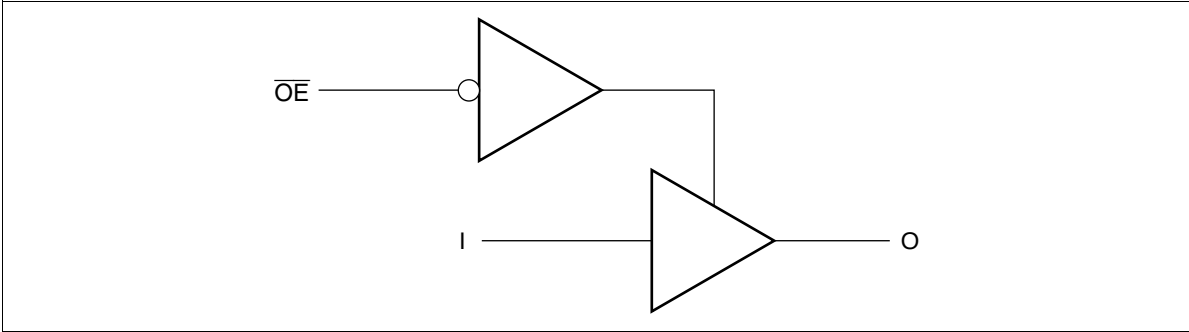
Features

- 3-State Outputs Drive Bus Lines or Buffer Memory Address Registers
- Outputs Source/Sink 24 mA
- HD74ACT367 has TTL-Compatible Inputs

Pin Arrangement



Logic Symbol



Pin Names

$\overline{OE}_1, \overline{OE}_2$	3-State Output: Enable Input (Active Low)
I	Inputs
O	Outputs

Truth Table

Inputs		Output
$\overline{OE}$	I	O
L	L	L
L	H	H
H	X	Z

- H : High Voltage Level
- L : Low Voltage Level
- X : Immaterial
- Z : High Impedance

DC Characteristics (unless otherwise specified)

Item	Symbol	Max	Unit	Condition
Maximum quiescent supply current	I_{CC}	80	μA	$V_{IN} = V_{CC}$ or ground, $V_{CC} = 5.5 V$, $T_a = \text{Worst case}$
Maximum quiescent supply current	I_{CC}	8.0	μA	$V_{IN} = V_{CC}$ or ground, $V_{CC} = 5.5 V$, $T_a = 25^{\circ}C$
Maximum $I_{CC}/\text{input (HD74ACT366)}$	I_{CCT}	1.5	mA	$V_{IN} = V_{CC} - 2.1 V$, $V_{CC} = 5.5 V$, $T_a = \text{Worst case}$

AC Characteristics: HD74AC367

Item	Symbol	$V_{CC} (V)^{*1}$	Ta = +25°C C _L = 50 pF			Ta = -40°C to +85°C C _L = 50 pF		Unit
			Min	Typ	Max	Min	Max	
Propagation delay	t_{PLH}	3.3	1.0	7.0	9.0	1.0	10.0	ns
		5.0	1.0	5.0	7.0	1.0	7.5	
Propagation delay	t_{PHL}	3.3	1.0	7.0	9.0	1.0	10.0	ns
		5.0	1.0	5.0	7.0	1.0	7.5	
Enable time	t_{PZH}	3.3	1.0	9.0	12.5	1.0	13.0	ns
		5.0	1.0	7.0	9.0	1.0	9.5	
Enable time	t_{PZL}	3.3	1.0	10.0	12.5	1.0	13.5	ns
		5.0	1.0	8.0	10.0	1.0	10.5	
Disable time	t_{PHZ}	3.3	1.0	9.5	12.0	1.0	12.5	ns
		5.0	1.0	7.5	10.0	1.0	10.5	
Disable time	t_{PLZ}	3.3	1.0	9.0	12.5	1.0	13.5	ns
		5.0	1.0	7.0	10.0	1.0	10.5	

Note: 1. Voltage Range 3.3 is 3.3 V $\pm$ 0.3 V
Voltage Range 5.0 is 5.0 V $\pm$ 0.5 V

AC Characteristics: HD74ACT367

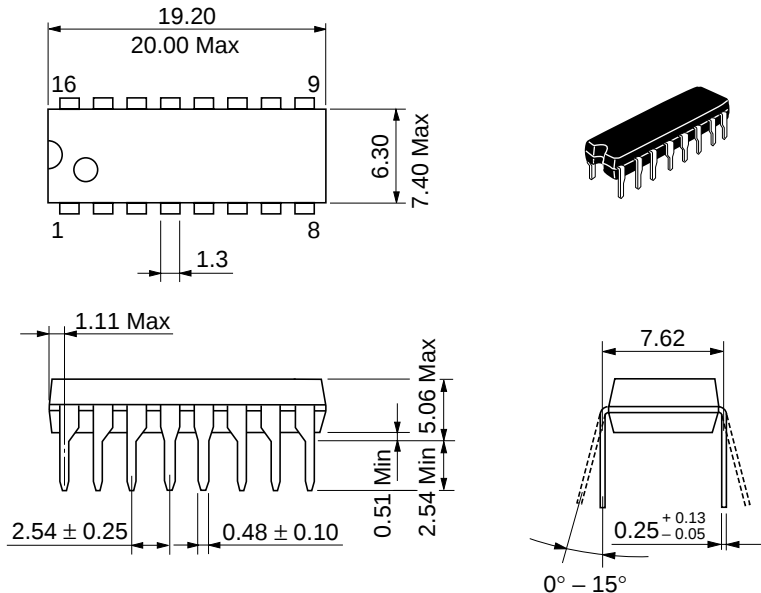
Item	Symbol	$V_{CC} (V)^{*1}$	Ta = +25°C C _L = 50 pF			Ta = -40°C to +85°C C _L = 50 pF		Unit
			Min	Typ	Max	Min	Max	
Propagation delay	t_{PLH}	5.0	1.0	6.5	9.0	1.0	10.0	ns
Propagation delay	t_{PHL}	5.0	1.0	6.5	9.0	1.0	10.0	ns
Enable time	t_{PZH}	5.0	1.0	8.0	10.5	1.0	11.0	ns
Enable time	t_{PZL}	5.0	1.0	9.5	12.0	1.0	13.0	ns
Disable time	t_{PHZ}	5.0	1.0	9.5	12.0	1.0	13.0	ns
Disable time	t_{PLZ}	5.0	1.0	8.0	10.5	1.0	11.5	ns

Note: 1. Voltage Range 5.0 is 5.0 V $\pm$ 0.5 V

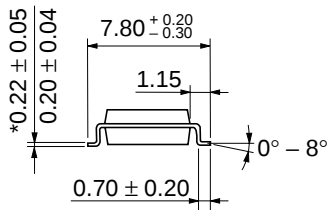
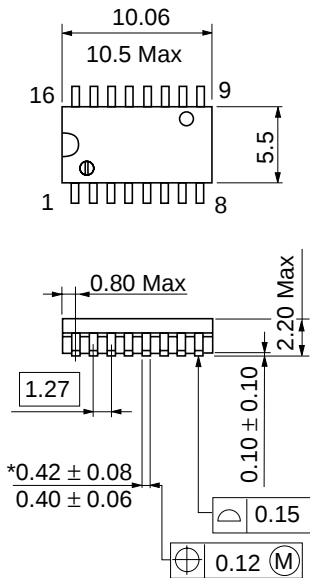
Capacitance

Item	Symbol	Typ	Unit	Condition
Input capacitance	C _{IN}	4.5	pF	V _{CC} = 5.5 V
Power dissipation capacitance	C _{PD}	45.0	pF	V _{CC} = 5.0 V

Unit: mm

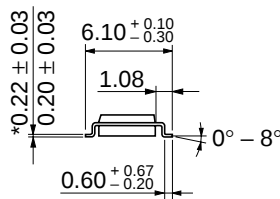
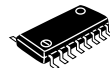


Hitachi Code	DP-16
JEDEC	Conforms
EIAJ	Conforms
Weight (reference value)	1.07 g



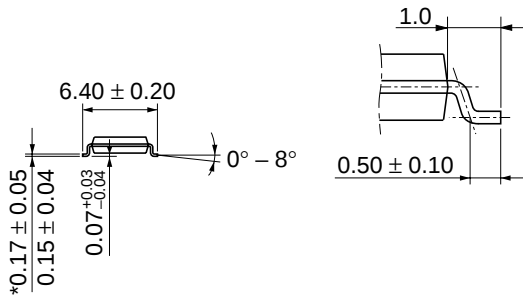
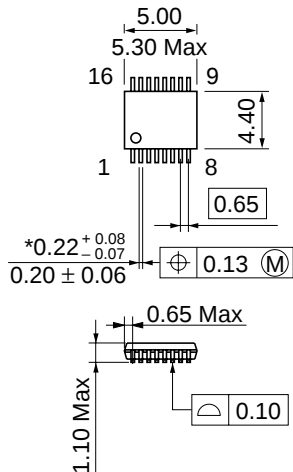
*Dimension including the plating thickness
Base material dimension

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



*Dimension including the plating thickness
Base material dimension

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



*Dimension including the plating thickness
Base material dimension

Hitachi Code	TTP-16DA
JEDEC	—
EIAJ	—
Weight (reference value)	0.05 g

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