

HD74AC367/HD74ACT367

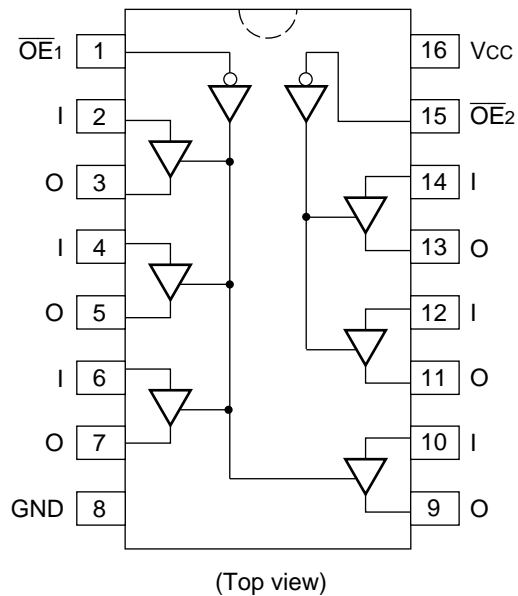
Hex Buffer/Driver with 3-State Output

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Features

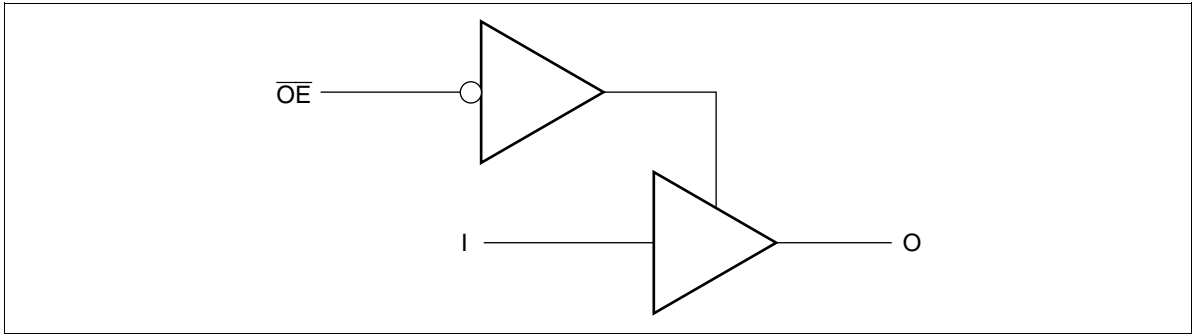
- 3-State Outputs Drive Bus Lines or Buffer Memory Address Registers
- Outputs Source/Sink 24 mA
- HD74ACT367 has TTL-Compatible Inputs

Pin Arrangement



HD74AC367/HD74ACT367

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 $I_{CC}/input$ (HD74ACT366)	I_{CCT}	1.5	mA	$V_{IN} = V_{CC} - 2.1 V$, $V_{CC} = 5.5 V$, $T_a = \text{Worst case}$

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AC Characteristics: HD74AC367

Item	Symbol	$V_{CC} (V)^{*1}$	$T_a = +25^{\circ}C$ $C_L = 50 \text{ pF}$			$T_a = -40^{\circ}C \text{ to } +85^{\circ}C$ $C_L = 50 \text{ pF}$		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 $3.3 \text{ V} \pm 0.3 \text{ V}$
Voltage Range 5.0 is $5.0 \text{ V} \pm 0.5 \text{ V}$

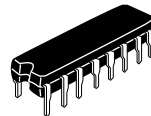
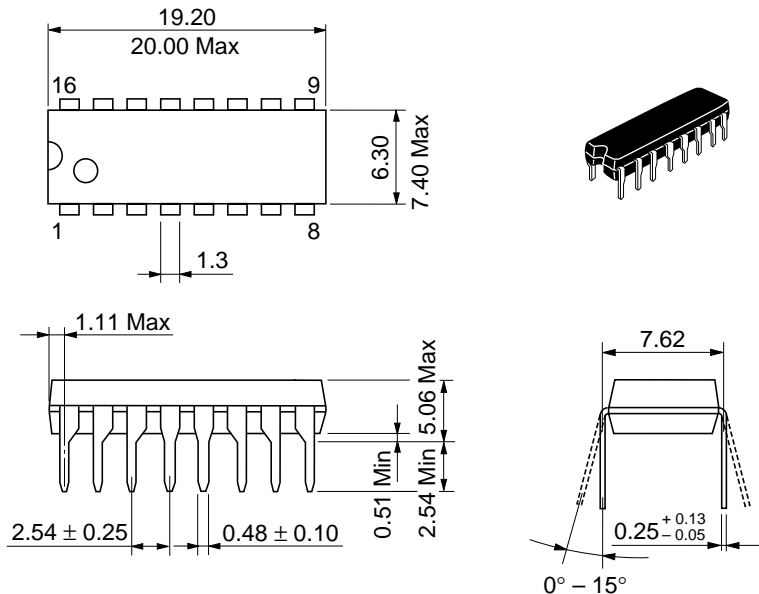
AC Characteristics: HD74ACT367

Item	Symbol	$V_{CC} (V)^{*1}$	$T_a = +25^{\circ}C$ $C_L = 50 \text{ pF}$			$T_a = -40^{\circ}C \text{ to } +85^{\circ}C$ $C_L = 50 \text{ pF}$		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

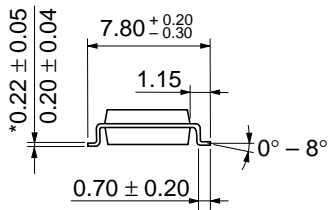
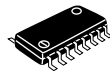
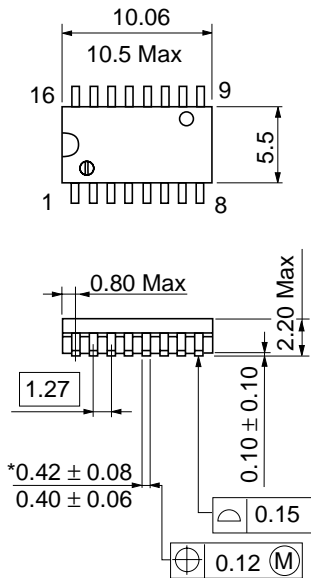
Note: 1. Voltage Range 5.0 is $5.0 \text{ V} \pm 0.5 \text{ V}$

Capacitance

Item	Symbol	Typ	Unit	Condition
Input capacitance	C_{IN}	4.5	pF	$V_{CC} = 5.5 \text{ V}$
Power dissipation capacitance	C_{PD}	45.0	pF	$V_{CC} = 5.0 \text{ V}$

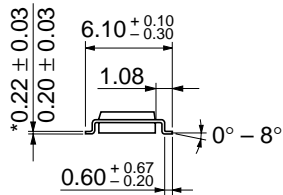
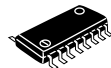
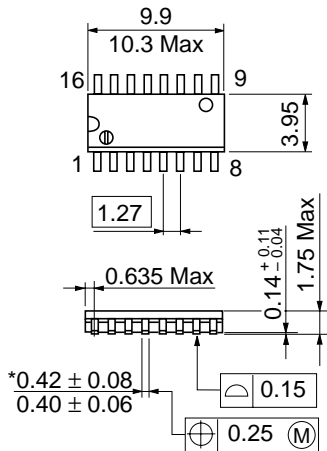


Hitachi Code	DP-16
JEDEC	Conforms
EIAJ	Conforms
Weight (reference value)	1.07 g



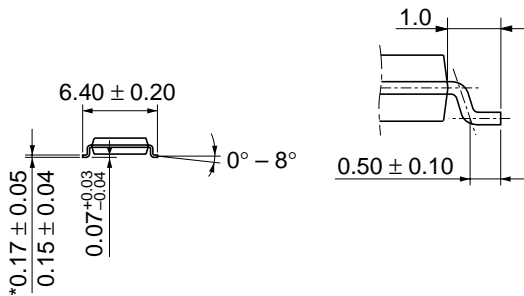
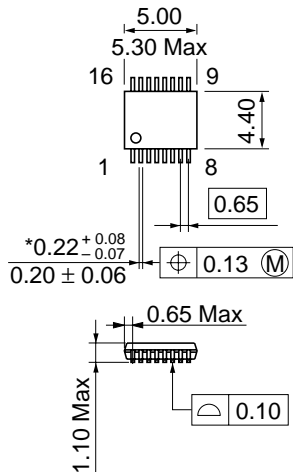
*Dimension including the plating thickness
Base material dimension

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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HITACHI

Hitachi, Ltd.

Semiconductor & Integrated Circuits.
Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan
Tel: Tokyo (03) 3270-2111 Fax: (03) 3270-5109

URL North America : <http://semiconductor.hitachi.com/>
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For further information write to:

Hitachi Semiconductor
(America) Inc.
179 East Tasman Drive,
San Jose, CA 95134
Tel: <1> (408) 433-1990
Fax: <1> (408) 433-0223

Hitachi Europe GmbH
Electronic components Group
Dornacher Straße 3
D-85622 Feldkirchen, Munich
Germany
Tel: <49> (89) 9 9180-0
Fax: <49> (89) 9 29 30 00

Hitachi Europe Ltd.
Electronic Components Group.
Whitebrook Park
Lower Cookham Road
Maidenhead
Berkshire SL6 8YA, United Kingdom
Tel: <44> (1628) 585000
Fax: <44> (1628) 778322

Hitachi Asia Pte. Ltd.
16 Collyer Quay #20-00
Hitachi Tower
Singapore 049318
Tel: 535-2100
Fax: 535-1533

Hitachi Asia Ltd.
Taipei Branch Office
3F, Hung Kuo Building, No.167,
Tun-Hwa North Road, Taipei (105)
Tel: <886> (2) 2718-3666
Fax: <886> (2) 2718-8180

Hitachi Asia (Hong Kong) Ltd.
Group III (Electronic Components)
7/F., North Tower, World Finance Centre,
Harbour City, Canton Road, Tsim Sha Tsui,
Kowloon, Hong Kong
Tel: <852> (2) 735 9218
Fax: <852> (2) 730 0281
Telex: 40815 HITEC HX

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