SCLS418G - JUNE 1998 - REVISED JULY 2003

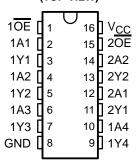
- Inputs Are TTL-Voltage Compatible
- True Outputs
- Latch-Up Performance Exceeds 100 mA Per JESD 78, Class II
- ESD Protection Exceeds JESD 22
 - 2000-V Human-Body Model (A114-A)
 - 200-V Machine Model (A115-A)
 - 1000-V Charged-Device Model (C101)

description/ordering information

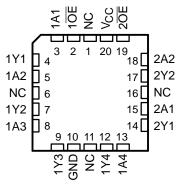
The 'AHCT367 devices are designed specifically to improve both the performance and density of 3-state memory address drivers, clock drivers, and bus-oriented receivers and transmitters. These devices are organized as dual 4-line and 2-line buffers/drivers with active-low output-enable (1OE and 2OE) inputs. When OE is low, the device passes noninverted data from the A inputs to the Y outputs. When OE is high, the outputs are in the high-impedance state.

To ensure the high-impedance state during power up or power down, $\overline{\text{OE}}$ should be tied to V_{CC} through a pullup resistor; the minimum value of the resistor is determined by the current-sinking capability of the driver.

SN54AHCT367 . . . J OR W PACKAGE SN74AHCT367 . . . D, DB, DGV, N, NS, OR PW PACKAGE (TOP VIEW)



SN54AHCT367 . . . FK PACKAGE (TOP VIEW)



NC - No internal connection

ORDERING INFORMATION

TA	PACK	AGE†	ORDERABLE PART NUMBER	TOP-SIDE MARKING
	PDIP – N	Tube	SN74AHCT367N	SN74AHCT367N
–40°C to 85°C	SOIC - D	Tube	SN74AHCT367D	AHCT367
	30IC = D	Tape and reel	SN74AHCT367DR	AUC 1307
	SOP - NS	Tape and reel	SN74AHCT367NSR	AHCT367
-40 C to 65 C	SSOP – DB	Tape and reel	SN74AHCT367DBR	HB367
	TSSOP – PW	Tube	SN74AHCT367PW	HB367
	1330F = FW	Tape and reel	SN74AHCT367PWR	110307
	TVSOP - DGV	Tape and reel	SN74AHCT367DGVR	HB367
	CDIP – J	Tube	SNJ54AHCT367J	SNJ54AHCT367J
–55°C to 125°C	CFP – W	Tube	SNJ54AHCT367W	SNJ54AHCT367W
	LCCC – FK	Tube	SNJ54AHCT367FK	SNJ54AHCT367FK

[†] Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.



Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.

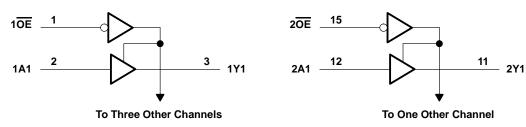


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FUNCTION TABLE (each buffer/driver)

INP	JTS	OUTPUT
OE	Α	Y
Н	Χ	Z
L	Н	Н
L	L	L

logic diagram (positive logic)



Pin numbers shown are for the D, DB, DGV, J, N, NS, PW, and W packages.

absolute maximum ratings over operating free-air temperature range (unless otherwise noted)†

Supply voltage range, V _{CC}		–0.5 V to 7 V
Output voltage range, V _O (see Note 1)		
Input clamp current, $I_{IK}(V_I < 0)$		–20 mA
Output clamp current, I _{OK} (V _O < 0 or V _O > V _{CO}	;)	±20 mA
Continuous output current, $I_O(V_O = 0 \text{ to } V_{CC})$		±25 mA
Continuous current through V _{CC} or GND		±75 mA
Package thermal impedance, θ_{JA} (see Note 2):	D package	73°C/W
	DB package	82°C/W
	DGV package	120°C/W
	N package	67°C/W
	NS package	64°C/W
	PW package	108°C/W
Storage temperature range, T _{stg}		–65°C to 150°C

[†] Stresses beyond those listed under "absolute maximum ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under "recommended operating conditions" is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

NOTES: 1. The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

2. The package thermal impedance is calculated in accordance with JESD 51-7.



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recommended operating conditions (see Note 3)

		SN54AH	CT367	SN74AH	CT367	UNIT
		MIN	MAX	MIN	MAX	UNII
Vсс	Supply voltage	4.5	5.5	4.5	5.5	V
VIH	High-level input voltage	2	2	2		V
V _{IL}	Low-level input voltage		0.8		0.8	V
٧ _I	Input voltage	0	5.5	0	5.5	V
۷o	Output voltage	0	VCC	0	Vcc	V
ІОН	High-level output current	22	-8		-8	mA
loL	Low-level output current	70	8		8	mA
Δt/Δν	Input transition rise or fall rate	Q	20		20	ns/V
TA	Operating free-air temperature	- 55	125	-40	85	°C

NOTE 3: All unused inputs of the device must be held at V_{CC} or GND to ensure proper device operation. Refer to the TI application report, Implications of Slow or Floating CMOS Inputs, literature number SCBA004.

electrical characteristics over recommended operating free-air temperature range (unless otherwise noted)

DARAMETER	TEST CONDITIONS	vcc	T,	λ = 25°C	;	SN54AH	ICT367	SN74AH	CT367	UNIT
PARAMETER	TEST CONDITIONS		MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT
VOH	$I_{OH} = -50 \mu A$	4.5 V	4.4	4.5		4.4		4.4		V
VOH	$I_{OH} = -8 \text{ mA}$	4.5 V	3.94			3.8		3.8		v
VOL	I _{OL} = 50 μA	4.5 V			0.1		0.1		0.1	V
VOL	I _{OL} = 8 mA	4.5 V			0.36		0.44		0.44	V
Ι _Ι	$V_I = 5.5 \text{ V or GND}$	0 V to 5.5 V			±0.1*		±1*		±1	μΑ
loz	$V_I = V_{CC}$ or GND, $V_O = V_{CC}$ or GND, $\overline{OE} = V_{IH}$	5.5 V			±0.25	2,7,2	±2.5		±2.5	μΑ
lcc	$V_I = V_{CC}$ or GND, $I_O = 0$	5.5 V			4	200	40		40	μΑ
ΔICC†	One input at 3.4 V, Other inputs at V _{CC} or GND	5.5 V			1.35	No.	1.5		1.5	mA
Ci	$V_I = V_{CC}$ or GND	5 V		2.5	10		10		10	pF
Co	$V_O = V_{CC}$ or GND	5 V		5						pF

^{*} On products compliant to MIL-PRF-38535, this parameter is not production tested at $V_{CC} = 0 \text{ V}$.

[†] This is the increase in supply current for each input at one of the specified TTL voltage levels, rather than 0 V or V_{CC}.

SN54AHCT367, SN74AHCT367 HEX BUFFERS AND LINE DRIVERS WITH 3-STATE OUTPUTS

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switching characteristics over recommended operating free-air temperature range, V_{CC} = 5 V \pm 0.5 V (unless otherwise noted) (see Figure 1)

PARAMETER	FROM	то	LOAD	T,	λ = 25°C	;	SN54AH	CT367	SN74AH	CT367	UNIT															
PARAMETER	(INPUT)	(OUTPUT)	CAPACITANCE	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT															
t _{PLH}	Α	Y	C 15 pF		2.5*	4.8*	1*	6.5*	1	5.5	ns															
t _{PHL}	A	'	C _L = 15 pF		2.5*	4.8*	1*	6.5*	1	5.5	115															
^t PZH	ŌĒ	Y	C: - 15 pE		3.5*	8*	1*	9.5*	1	8.5	ns															
tPZL	OE	ī	C _L = 15 pF		2.8*	7*	1*	8.5*	1	7.5	110															
t _{PHZ}	ŌĒ	Y	C _I = 15 pF		3.1*	8*	1*	9.5*	1	8.5	ns															
tPLZ	OE	ī	C[= 15 pr		2.8*	7*	1* 9	8.5*	1	7.5	115															
tPLH	Α		C _I = 50 pF		3.5	5.8	1)	7.5	1	6.5	ns															
t _{PHL}	A	Y		Y	Y	Y	Y	<u> </u>	Ť	Y	<u> </u>	<u> </u>	ľ	Y	Y	Y	Y	CL = 50 pr		3.3	5.8	Q1	7.5	1	6.5	115
^t PZH	ŌĒ	Y	C: - 50 pF		4.5	9	Q 1	10.5	1	9.5	no															
tPZL	OE	ī	C _L = 50 pF		3.7	8	8 1		1	8.5	ns															
t _{PHZ}	OE	Y	C: - 50 pE		4.1	9	1	10.5	1	9.5	ns															
t _{PLZ}	OL .	1	C _L = 50 pF		3.6	8	1	9.5	1	8.5	115															

^{*} On products compliant to MIL-PRF-38535, this parameter is not production tested.

noise characteristics, $V_{CC} = 5 \text{ V}$, $C_L = 50 \text{ pF}$, $T_A = 25^{\circ}\text{C}$ (see Note 4)

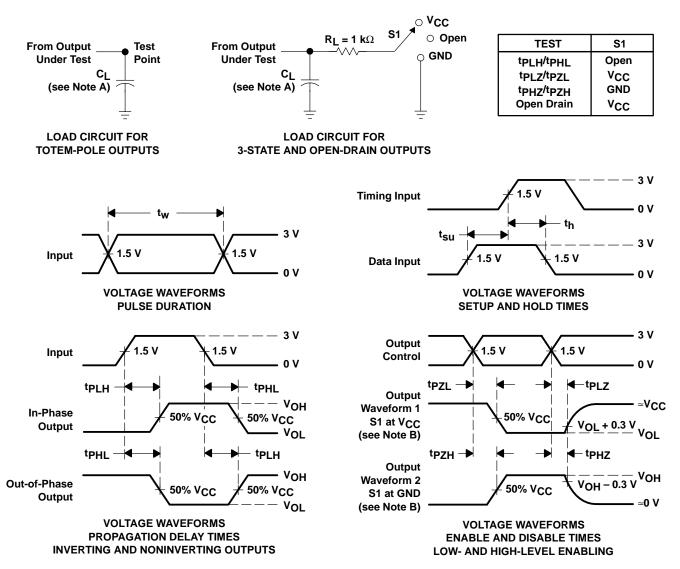
	PARAMETER	SN7	UNIT		
	PARAMETER	MIN	TYP	MAX	UNIT
V _{OL(P)}	Quiet output, maximum dynamic V _{OL}		0.4		V
V _{OL(V)}	Quiet output, minimum dynamic V _{OL}		-0.4		V
V _{OH(V)}	Quiet output, minimum dynamic VOH		4.7		V
VIH(D)	High-level dynamic input voltage	2			V
V _{IL(D)}	Low-level dynamic input voltage			0.8	V

NOTE 4: Characteristics are for surface-mount packages only.

operating characteristics, $V_{CC} = 5 \text{ V}$, $T_A = 25^{\circ}\text{C}$

	PARAMETER	TEST C	ONDITIONS	TYP	UNIT
C _{pd}	Power dissipation capacitance	No load,	f = 1 MHz	22	pF

PARAMETER MEASUREMENT INFORMATION



NOTES: A. C_L includes probe and jig capacitance.

- B. Waveform 1 is for an output with internal conditions such that the output is low except when disabled by the output control. Waveform 2 is for an output with internal conditions such that the output is high except when disabled by the output control.
- C. All input pulses are supplied by generators having the following characteristics: PRR \leq 1 MHz, $Z_Q = 50 \Omega$, $t_f \leq$ 3 ns, $t_f \leq$ 3 ns.
- D. The outputs are measured one at a time with one input transition per measurement.
- E. All parameters and waveforms are not applicable to all devices.

Figure 1. Load Circuit and Voltage Waveforms







11-Apr-2013

PACKAGING INFORMATION

Orderable Device	Status	Package Type	Package Drawing	Pins	Package Qty	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Top-Side Markings	Samples
SN74AHCT367D	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AHCT367	Samples
SN74AHCT367DBR	ACTIVE	SSOP	DB	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HB367	Samples
SN74AHCT367DBRE4	ACTIVE	SSOP	DB	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HB367	Samples
SN74AHCT367DBRG4	ACTIVE	SSOP	DB	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HB367	Samples
SN74AHCT367DE4	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AHCT367	Samples
SN74AHCT367DG4	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AHCT367	Samples
SN74AHCT367DGVR	ACTIVE	TVSOP	DGV	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HB367	Samples
SN74AHCT367DGVRE4	ACTIVE	TVSOP	DGV	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HB367	Samples
SN74AHCT367DGVRG4	ACTIVE	TVSOP	DGV	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HB367	Samples
SN74AHCT367DR	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AHCT367	Samples
SN74AHCT367DRE4	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AHCT367	Samples
SN74AHCT367DRG4	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AHCT367	Samples
SN74AHCT367PW	ACTIVE	TSSOP	PW	16	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HB367	Samples
SN74AHCT367PWE4	ACTIVE	TSSOP	PW	16	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HB367	Samples
SN74AHCT367PWG4	ACTIVE	TSSOP	PW	16	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HB367	Samples
SN74AHCT367PWR	ACTIVE	TSSOP	PW	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HB367	Samples
SN74AHCT367PWRE4	ACTIVE	TSSOP	PW	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HB367	Samples



PACKAGE OPTION ADDENDUM

11-Apr-2013

Orderable Device	Status	Package Type	Package	Pins	Package	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Top-Side Markings	Samples
	(1)		Drawing		Qty	(2)		(3)		(4)	
SN74AHCT367PWRG4	ACTIVE	TSSOP	PW	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HB367	Samples

(1) The marketing status values are defined as follows:

ACTIVE: Product device recommended for new designs.

LIFEBUY: TI has announced that the device will be discontinued, and a lifetime-buy period is in effect.

NRND: Not recommended for new designs. Device is in production to support existing customers, but TI does not recommend using this part in a new design.

PREVIEW: Device has been announced but is not in production. Samples may or may not be available.

OBSOLETE: TI has discontinued the production of the device.

(2) Eco Plan - The planned eco-friendly classification: Pb-Free (RoHS), Pb-Free (RoHS Exempt), or Green (RoHS & no Sb/Br) - please check http://www.ti.com/productcontent for the latest availability information and additional product content details.

TBD: The Pb-Free/Green conversion plan has not been defined.

Pb-Free (RoHS): TI's terms "Lead-Free" or "Pb-Free" mean semiconductor products that are compatible with the current RoHS requirements for all 6 substances, including the requirement that lead not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, TI Pb-Free products are suitable for use in specified lead-free processes.

Pb-Free (RoHS Exempt): This component has a RoHS exemption for either 1) lead-based flip-chip solder bumps used between the die and package, or 2) lead-based die adhesive used between the die and leadframe. The component is otherwise considered Pb-Free (RoHS compatible) as defined above.

Green (RoHS & no Sb/Br): TI defines "Green" to mean Pb-Free (RoHS compatible), and free of Bromine (Br) and Antimony (Sb) based flame retardants (Br or Sb do not exceed 0.1% by weight in homogeneous material)

- (3) MSL, Peak Temp. -- The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.
- (4) Multiple Top-Side Markings will be inside parentheses. Only one Top-Side Marking contained in parentheses and separated by a "~" will appear on a device. If a line is indented then it is a continuation of the previous line and the two combined represent the entire Top-Side Marking for that device.

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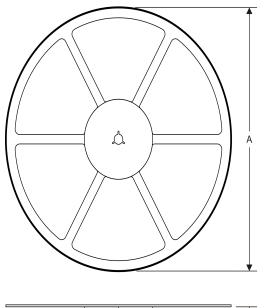
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PACKAGE MATERIALS INFORMATION

14-Jul-2012 www.ti.com

TAPE AND REEL INFORMATION

REEL DIMENSIONS





TAPE DIMENSIONS



A0	Dimension designed to accommodate the component width
В0	Dimension designed to accommodate the component length
K0	Dimension designed to accommodate the component thickness
W	Overall width of the carrier tape
P1	Pitch between successive cavity centers

TAPE AND REEL INFORMATION

*All dimensions are nominal

Device	Package Type	Package Drawing		SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN74AHCT367DBR	SSOP	DB	16	2000	330.0	16.4	8.2	6.6	2.5	12.0	16.0	Q1
SN74AHCT367DGVR	TVSOP	DGV	16	2000	330.0	12.4	6.8	4.0	1.6	8.0	12.0	Q1
SN74AHCT367DR	SOIC	D	16	2500	330.0	16.4	6.5	10.3	2.1	8.0	16.0	Q1
SN74AHCT367PWR	TSSOP	PW	16	2000	330.0	12.4	6.9	5.6	1.6	8.0	12.0	Q1

www.ti.com 14-Jul-2012



*All dimensions are nominal

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Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74AHCT367DBR	SSOP	DB	16	2000	367.0	367.0	38.0
SN74AHCT367DGVR	TVSOP	DGV	16	2000	367.0	367.0	35.0
SN74AHCT367DR	SOIC	D	16	2500	333.2	345.9	28.6
SN74AHCT367PWR	TSSOP	PW	16	2000	367.0	367.0	35.0

DGV (R-PDSO-G**)

24 PINS SHOWN

PLASTIC SMALL-OUTLINE



NOTES: A. All linear dimensions are in millimeters.

B. This drawing is subject to change without notice.

C. Body dimensions do not include mold flash or protrusion, not to exceed 0,15 per side.

D. Falls within JEDEC: 24/48 Pins – MO-153 14/16/20/56 Pins – MO-194

D (R-PDS0-G16)

PLASTIC SMALL OUTLINE



- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0.006 (0,15) each side.
- Body width does not include interlead flash. Interlead flash shall not exceed 0.017 (0,43) each side.
- E. Reference JEDEC MS-012 variation AC.



D (R-PDSO-G16)

PLASTIC SMALL OUTLINE



- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
- C. Publication IPC-7351 is recommended for alternate designs.
- D. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should contact their board assembly site for stencil design recommendations. Refer to IPC-7525 for other stencil recommendations.
- E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.



PW (R-PDSO-G16)

PLASTIC SMALL OUTLINE



- A. All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M—1994.
- B. This drawing is subject to change without notice.
- Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0,15 each side.
- Body width does not include interlead flash. Interlead flash shall not exceed 0,25 each side.
- E. Falls within JEDEC MO-153



PW (R-PDSO-G16)

PLASTIC SMALL OUTLINE



- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
- C. Publication IPC-7351 is recommended for alternate designs.
- D. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should contact their board assembly site for stencil design recommendations. Refer to IPC-7525 for other stencil recommendations.
- E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.



DB (R-PDSO-G**)

PLASTIC SMALL-OUTLINE

28 PINS SHOWN



NOTES: A. All linear dimensions are in millimeters.

B. This drawing is subject to change without notice.

C. Body dimensions do not include mold flash or protrusion not to exceed 0,15.

D. Falls within JEDEC MO-150

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