







SN74AHCT367

SCLS418I - JUNE 1998 - REVISED JULY 2024

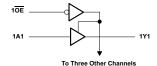
SN74AHCT367 Hex Buffer and Line Driver with 3-State Output

1 Features

- Inputs are TTL-voltage compatible
- True outputs
- Latch-up performance exceeds 100mA per JESD 78, class II
- ESD protection exceeds JESD 22
 - 2000V human-body model
 - 2000V charged-device model

2 Applications

- Telecom Infrastructure
- TVs
- Set Top Boxes
- **Network Switches**
- Wireless Infrastructure
- Electronic Points of Sale



3 Description

The SN74AHCT367 device is designed specifically to improve both the performance and density of 3-state memory address drivers, clock drivers, and bus-oriented receivers and transmitters.

Package Information

PART NUMBER PACKAGE ⁽¹⁾		PACKAGE SIZE(2)	BODY SIZE(3)				
	D (SOIC, 16)	9.9mm × 6mm	9.9mm x 3.90mm				
CN744HCT267	DB (SSOP, 16)	6.2mm × 7.8mm	6.2mm x 5.30mm				
SN74AHCT367	DGV (TVSOP, 16)	3.6mm × 6.4mm	3.6mm x 4.4mm				
	PW (TSSOP, 16)	5mm × 6.4mm	5.00mm x 4.40mm				

- (1) For more information, see Mechanical, Packaging, and Orderable Information.
- The package size (length × width) is a nominal value and includes pins, where applicable.
- The body size (length × width) is a nominal value and does not include pins.

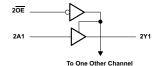




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4 Pin Configuration and Functions

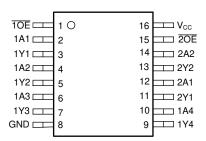


Figure 4-1. D, DB, DGV, or PW Package; 16-Pin SOIC, SSOP, TVSOP, or TSSOP (Top View)

Table 4-1. Pin Functions

	PIN		DESCRIPTION
NO.	NAME	TYPE	DESCRIPTION
1	1 OE	I	Output Enable 1
2	1A1	I	1A1 Input
3	1Y1	0	1Y1 Output
4	1A2	I	1A2 Input
5	1Y2	0	1Y2 Output
6	1A3	I	1A3 Input
7	1Y3	0	1Y3 Output
8	GND	_	Ground Pin
9	1Y4	0	1Y4 Output
10	1A4	I	1A4 Input
11	2Y1	0	2Y1 Output
12	2A1	I	2A1 Input
13	2Y2	0	2Y2 Output
14	2A2	1	2A2 Input
15	2 OE	I	Output Enable 2
16	V _{CC}	_	Power Pin



5 Specifications

5.1 Absolute Maximum Ratings

over operating free-air temperature range (unless otherwise noted)(1)

			MIN	MAX	UNIT
V _{CC}	Supply voltage range	Supply voltage range			
VI	Input voltage range ⁽²⁾		-0.5	7	V
Vo	Output voltage range ⁽²⁾	Output voltage range ⁽²⁾		V _{CC} + 0.5	V
I _{IK}	Input clamp current	V _I < 0		-20	mA
I _{OK}	Output clamp current	$V_O < 0$ or $V_O > V_{CC}$		±20	mA
Io	Continuous output current	$V_O = 0$ to V_{CC}		±25	mA
	Continuous current through V _{CC} or GND			±75	mA
T _{stg}	Storage temperature range		-65	150	°C

⁽¹⁾ Stresses beyond those listed under Absolute Maximum Ratings may cause permanent damage to the device. These are stress ratings only, which do not imply functional operation of the device at these or any other conditions beyond those indicated under Section 5.3. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

5.2 ESD Ratings

			VALUE	UNIT
	Human body model (HBM), per ANSI/ESDA/JEDEC JS-001, all pins ⁽¹⁾	±2000		
V _(ESD)	Electrostatic discharge	Charged device model (CDM), per JEDEC specification JESD22-C101, all pins ⁽²⁾	±2000	V

⁽¹⁾ JEDEC document JEP155 states that 500-V HBM allows safe manufacturing with a standard ESD control process.

5.3 Recommended Operating Conditions

over operating free-air temperature range (unless otherwise noted)(1)

		SN74AHC1	SN74AHCT367	
		MIN	MAX	UNIT
V _{CC}	Supply voltage	4.5	5.5	V
V _{IH}	High-level input voltage	2		V
V _{IL}	Low-level Input voltage		0.8	V
VI	Input voltage	0	5.5	V
Vo	Output voltage	0	V _{CC}	V
I _{OH}	High-level output current		-8	mA
I _{OL}	Low-level output current		8	mA
Δt/Δν	Input transition rise or fall rate		20	ns/V
T _A	Operating free-air temperature	-40	125	°C

(1) 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 (SCBA004).

⁽²⁾ The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

⁽²⁾ JEDEC document JEP157 states that 250-V CDM allows safe manufacturing with a standard ESD control process.

5.4 Thermal Information

			SN74A	HCT367		
	THERMAL METRIC(1)	D	DB	DGV	PW	UNIT
			16	PINS		
R _{0JA}	Junction-to-ambient thermal resistance	93.8	103.9	124.5	135.9	
R _{0JC(top)}	Junction-to-case (top) thermal resistance	54.7	54.3	49.8	70.3	
R _{θJB}	Junction-to-board thermal resistance	50.9	54.6	56.2	81.3	°C/W
ΨЈТ	Junction-to-top characterization parameter	20.8	14.3	5.8	22.5	
ΨЈВ	Junction-to-board characterization parameter	50.7	54.0	55.7	80.8	
R _{0JC(bot)}	Junction-to-case (bottom) thermal resistance	N/A	N/A	N/A	N/A	

⁽¹⁾ For more information about traditional and new thermal metrics, see the IC Package Thermal Metrics application report (SPRA953).

5.5 Electrical Characteristics

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

DADAMETED	PARAMETER TEST CONDITIONS		TA	= 25°C		-40°C to	85°C	-40°C to 1	25°C	UNIT
PARAMETER	TEST CONDITIONS	V _{cc}	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNII
V	I _{OH} = -50 μA	4.5 V	4.4	4.5		4.4		4.4		V
V _{OH}	I _{OH} = -8 mA	4.5 V	3.94			3.8		3.8		V
V	I _{OL} = 50 μA 4.5 V			0.1		0.1		0.1	V	
V _{OL}	I _{OH} = 8 mA	4.5 V			0.36		0.44		0.44	V
I	V _I = 5.5 V or GND	0 V to 5.5 V			±0.1 ⁽¹⁾		±1 ⁽¹⁾		±1	μA
I _{OZ}	$V_O = V_{CC}$ or GND $V_I (\overline{OE}) = V_{IL}$ or V_{IH}	5.5 V			±0.25		±2.5		±2.5	μA
I _{cc}	$V_I = V_{CC}$ or GND, $I_O = 0$	5.5 V			4		40		40	μA
ΔI _{CC} ⁽²⁾	One input at 3.4 V, Other inputs at V _{CC} or GND	5.5 V			1.35		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

- (1) On products compliant to MIL-PRF-38535, this parameter is not production tested at V_{CC} = 0 V.
 (2) 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}.

5.6 Switching Characteristics

over recommended operating free-air temperature range, V_{CC} = 5 V \pm 0.5 V (unless otherwise noted) (see Load Circuit and Voltage Waveforms)

PARAMETER	FROM TO		FROM TO LOAD	T _A = 25	5°C	–40°C to	85°C	-40°C to	125°C	UNIT
PARAMETER	(INPUT)	(OUTPUT)	CAPACITANCE	TYP	MAX	MIN	MAX	MIN	MAX	UNII
t _{PLH}	Α Α	Y	C ₁ = 15 pF	2.5 ⁽¹⁾	4.8(1)	1	6.5	1	8.5	
t _{PHL}		ř	O _L = 15 pr	2.5 ⁽¹⁾	4.8(1)	1	6.5	1	8.5	ns
t _{PZH}	ŌĒ	Y	C ₁ = 15 pF	3.5 ⁽¹⁾	8(1)	1	9.5	1	9	
t _{PZL}	J OE	Y	O _L = 15 pr	2.8(1)	7 ⁽¹⁾	1	8.5 ⁽¹⁾	1	8	ns
t _{PHZ}	OE Y	V	C ₁ = 15 pF	3.1 ⁽¹⁾	8(1)	1	9.5	1	9	
t _{PLZ}		O _L = 15 pr	2.8(1)	7 ⁽¹⁾	1	8.5	1	8	ns	
t _{PLH}	A	Y	C ₁ = 50 pF	3.5	5.8	1	7.5	1	9.5	ns
t _{PHL}		ř	O _L = 50 pr	3.3	5.8	1	7.5	1	9.5	ns
t _{PZH}	ŌĒ	Y	C = 50 pF	4.5	9	1	10.5	1	10	ns
t _{PZL}	- OE Y		C _L = 50 pF	3.7	8	1	9.5	1	9	ns
t _{PHZ}	- ŌE	Y	C = 50 pF	4.1	9	1	10.5	1	10	no
t _{PLZ}	J OE	Y $C_L = 50 \text{ pF}$	O _L = 50 pr	3.6	8	1	9.5	1	9	ns

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

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5.7 Noise Characteristics

 $V_{CC} = 5 \text{ V}, C_L = 50 \text{ pF}, T_A = 25^{\circ}\text{C}^{(1)}$

	PARAMETER		SN74AHCT367		
	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 V _{OH}		4.7		V
V _{IH(D)}	High-level dynamic input voltage	2			V
$V_{IL(D)}$	Low-level dynamic input voltage			0.8	V

⁽¹⁾ Characteristics are for surface-mount packages only.

5.8 Operating Characteristics

 V_{CC} = 5 V, T_A = 25°C

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

5.9 Typical Characteristics

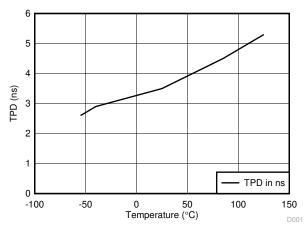


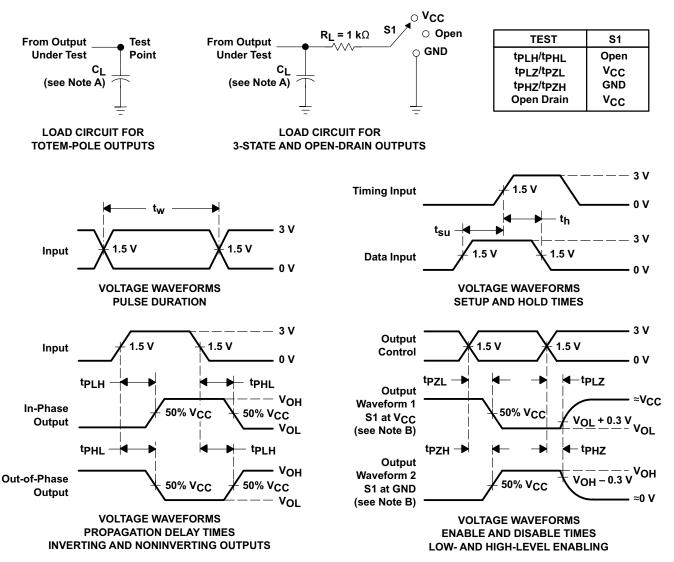
Figure 5-1. TPD vs Temperature, 50 pF Load

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6 Parameter Measurement Information



NOTES: A. C_I 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, $Z_O = 50 \Omega$, $t_f \leq$ 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 6-1. Load Circuit and Voltage Waveforms

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7 Detailed Description

7.1 Overview

The SN74AHCT367 device is designed specifically to improve both the performance and density of 3-state memory address drivers, clock drivers, and bus-oriented receivers and transmitters. This device is organized as a dual 4-line and 2-line buffer/driver with active-low output-enable (1 \overline{OE} and 2 \overline{OE}) inputs. When \overline{OE} is low, the device passes noninverted data from the A inputs to the Y outputs. When \overline{OE} is high, the outputs are in the high-impedance state.

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

7.2 Functional Block Diagram



Figure 7-1. Logic Diagram (Positive Logic)

7.3 Feature Description

- V_{CC} is optimized at 5 V
- Allows up voltage translation from 3.3 V to 5 V
 - Inputs Accept V_{IH} levels of 2 V
- Slow edge rates minimize output ringing
- · Inputs are TTL-Voltage compatible

7.4 Device Functional Modes

Table 7-1. Function Table (Each Buffer/Driver)

INP	UTS	OUTPUT
ŌĒ	Α	Y
Н	Х	Z
L	Н	Н
L	L	L

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8

8 Application and Implementation

Note

Information in the following applications sections is not part of the TI component specification, and TI does not warrant its accuracy or completeness. TI's customers are responsible for determining suitability of components for their purposes, as well as validating and testing their design implementation to confirm system functionality.

8.1 Application Information

SN74AHCT367 is a low-drive CMOS device that can be used for a multitude of bus interface type applications where output ringing is a concern. The low drive and slow edge rates will minimize overshoot and undershoot on the outputs. The input switching levels have been lowered to accommodate TTL inputs of 0.8-V V_{IL} and 2-V V_{IH} . This feature makes it Ideal for translating up from 3.3 V to 5 V. Figure 8-2 shows this type of translation.

8.2 Typical Application

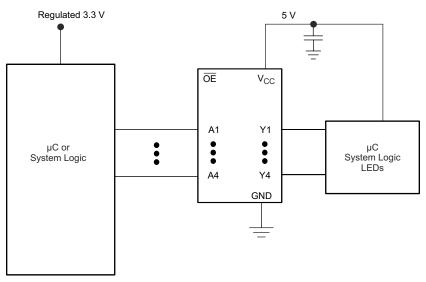


Figure 8-1. Typical Application Schematic

8.2.1 Design Requirements

This device uses CMOS technology and has balanced output drive. Care should be taken to avoid bus contention because it can drive currents that would exceed maximum limits. The high drive will also create fast edges into light loads, so routing and load conditions should be considered to prevent ringing.

Product Folder Links: SN74AHCT367

8.2.2 Detailed Design Procedure

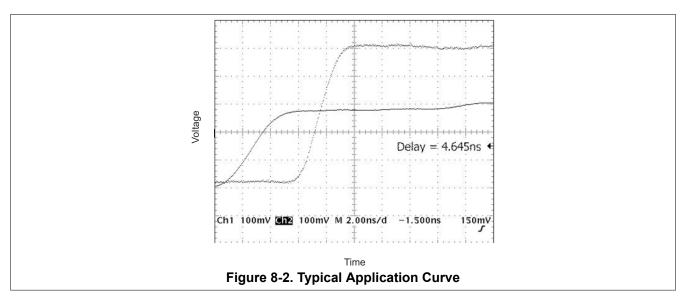
- 1. Recommended Input Conditions
 - For rise time and fall time specifications, see $\Delta t/\Delta V$ in the Section 5.3 table.
 - For specified High and low levels, see V_{IH} and V_{IL} in the Section 5.3 table.
 - Inputs are overvoltage tolerant allowing them to go as high as 5.5 V at any valid V_{CC}.
- 2. Recommend Output Conditions
 - Load currents should not exceed 25 mA per output and 75 mA total for the part.
 - Outputs should not be pulled above V_{CC}.

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8.2.3 Application Curves



8.3 Power Supply Recommendations

8.4 Layout

8.4.1 Layout Guidelines

When using multiple bit logic devices, inputs should not float. In many cases, functions or parts of functions of digital logic devices are unused. Some examples are when only two inputs of a triple-input AND gate are used, or when only 3 of the 4-buffer gates are used. Such input pins should not be left unconnected because the undefined voltages at the outside connections result in undefined operational states.

Specified in Figure 8-3 are rules that must be observed under all circumstances. All unused inputs of digital logic devices must be connected to a high or low bias to prevent them from floating. The logic level that should be applied to any particular unused input depends on the function of the device. Generally they will be tied to GND or V_{CC} , whichever makes more sense or is more convenient. It is acceptable to float outputs unless the part is a transceiver. If the transceiver has an output enable pin, it will disable the outputs section of the part when asserted. This will not disable the input section of the I/Os so they also cannot float when disabled.

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8.4.2 Layout Example

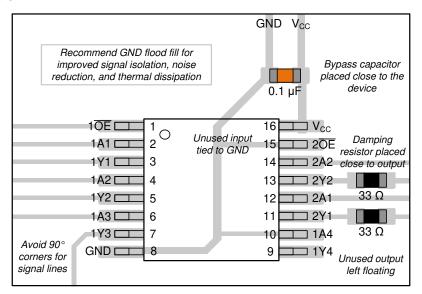


Figure 8-3. Example Layout for the SN74AHCT367 in the PW Package



9 Device and Documentation Support

9.1 Documentation Support

9.1.1 Related Links

The table below lists quick access links. Categories include technical documents, support and community resources, tools and software, and quick access to sample or buy.

Table 9-1. Related Links

PARTS PRODUCT F		PRODUCT FOLDER	SAMPLE & BUY	TECHNICAL DOCUMENTS	TOOLS & SOFTWARE	SUPPORT & COMMUNITY	
SI	N74AHCT367	Click here	Click here	Click here	Click here	Click here	

9.2 Receiving Notification of Documentation Updates

To receive notification of documentation updates, navigate to the device product folder on ti.com. Click on *Notifications* to register and receive a weekly digest of any product information that has changed. For change details, review the revision history included in any revised document.

9.3 Support Resources

TI E2E[™] support forums are an engineer's go-to source for fast, verified answers and design help — straight from the experts. Search existing answers or ask your own question to get the quick design help you need.

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9.4 Trademarks

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9.5 Electrostatic Discharge Caution



This integrated circuit can be damaged by ESD. Texas Instruments recommends that all integrated circuits be handled with appropriate precautions. Failure to observe proper handling and installation procedures can cause damage.

ESD damage can range from subtle performance degradation to complete device failure. Precision integrated circuits may be more susceptible to damage because very small parametric changes could cause the device not to meet its published specifications.

9.6 Glossary

TI Glossary

This glossary lists and explains terms, acronyms, and definitions.

10 Revision History

Changes from Revision G (July 2003) to Revision H (December 2014)

Page

 Added Applications, Device Information table, Pin Functions table, ESD Ratings table, Thermal Information table, Typical Characteristics, Feature Description section, Device Functional Modes, Application and

	Implementation section, Power Supply Recommendations section, Layout section, Device and
	Documentation Support section, and Mechanical, Packaging, and Orderable Information section
•	Deleted Ordering Information table
•	MAX operating temperature to 125°C in Recommended Operating Conditions table

11 Mechanical, Packaging, and Orderable Information

The following pages include mechanical, packaging, and orderable information. This information is the most current data available for the designated devices. This data is subject to change without notice and revision of this document. For browser-based versions of this data sheet, refer to the left-hand navigation.

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PACKAGING INFORMATION

Orderable	Status	Material type	Package Pins	Package qty Carrier	RoHS	Lead finish/ Ball material	MSL rating/ Peak reflow	Op temp (°C)	Part marking
part number	(1)	(2)			(3)				(6)
						(4)	(5)		
SN74AHCT367D	Obsolete	Production	SOIC (D) 16	-	-	Call TI	Call TI	-40 to 125	AHCT367
SN74AHCT367DBR	Active	Production	SSOP (DB) 16	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	HB367
SN74AHCT367DGVR	Active	Production	TVSOP (DGV) 16	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	HB367
SN74AHCT367DR	Active	Production	SOIC (D) 16	2500 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	AHCT367
SN74AHCT367PW	Obsolete	Production	TSSOP (PW) 16	-	-	Call TI	Call TI	-40 to 125	HB367
SN74AHCT367PWR	Active	Production	TSSOP (PW) 16	2000 LARGE T&R	Yes	NIPDAU SN	Level-1-260C-UNLIM	-40 to 125	HB367
SN74AHCT367PWRG4	Active	Production	TSSOP (PW) 16	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	HB367

⁽¹⁾ Status: For more details on status, see our product life cycle.

Multiple part markings will be inside parentheses. Only one part marking contained in parentheses and separated by a "~" will appear on a part. If a line is indented then it is a continuation of the previous line and the two combined represent the entire part marking for that device.

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In no event shall TI's liability arising out of such information exceed the total purchase price of the TI part(s) at issue in this document sold by TI to Customer on an annual basis.

⁽²⁾ Material type: When designated, preproduction parts are prototypes/experimental devices, and are not yet approved or released for full production. Testing and final process, including without limitation quality assurance, reliability performance testing, and/or process qualification, may not yet be complete, and this item is subject to further changes or possible discontinuation. If available for ordering, purchases will be subject to an additional waiver at checkout, and are intended for early internal evaluation purposes only. These items are sold without warranties of any kind.

⁽³⁾ RoHS values: Yes, No, RoHS Exempt. See the TI RoHS Statement for additional information and value definition.

⁽⁴⁾ Lead finish/Ball material: Parts may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead finish/Ball material values may wrap to two lines if the finish value exceeds the maximum column width.

⁽⁵⁾ MSL rating/Peak reflow: The moisture sensitivity level ratings and peak solder (reflow) temperatures. In the event that a part has multiple moisture sensitivity ratings, only the lowest level per JEDEC standards is shown. Refer to the shipping label for the actual reflow temperature that will be used to mount the part to the printed circuit board.

⁽⁶⁾ Part marking: There may be an additional marking, which relates to the logo, the lot trace code information, or the environmental category of the part.





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TAPE AND REEL INFORMATION



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

QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*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	8.35	6.6	2.4	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
SN74AHCT367DR	SOIC	D	16	2500	330.0	12.4	3.75	3.75	1.15	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
SN74AHCT367PWR	TSSOP	PW	16	2000	330.0	12.4	6.9	5.6	1.6	8.0	12.0	Q1
SN74AHCT367PWRG4	TSSOP	PW	16	2000	330.0	12.4	6.9	5.6	1.6	8.0	12.0	Q1
SN74AHCT367PWRG4	TSSOP	PW	16	2000	330.0	12.4	6.9	5.6	1.6	8.0	12.0	Q1



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*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74AHCT367DBR	SSOP	DB	16	2000	356.0	356.0	35.0
SN74AHCT367DGVR	TVSOP	DGV	16	2000	356.0	356.0	35.0
SN74AHCT367DR	SOIC	D	16	2500	353.0	353.0	32.0
SN74AHCT367DR	SOIC	D	16	2500	340.5	336.1	32.0
SN74AHCT367DR	SOIC	D	16	2500	353.0	353.0	32.0
SN74AHCT367PWR	TSSOP	PW	16	2000	356.0	356.0	35.0
SN74AHCT367PWR	TSSOP	PW	16	2000	353.0	353.0	32.0
SN74AHCT367PWRG4	TSSOP	PW	16	2000	353.0	353.0	32.0
SN74AHCT367PWRG4	TSSOP	PW	16	2000	356.0	356.0	35.0

D (R-PDS0-G16)

PLASTIC SMALL OUTLINE



NOTES:

- 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.







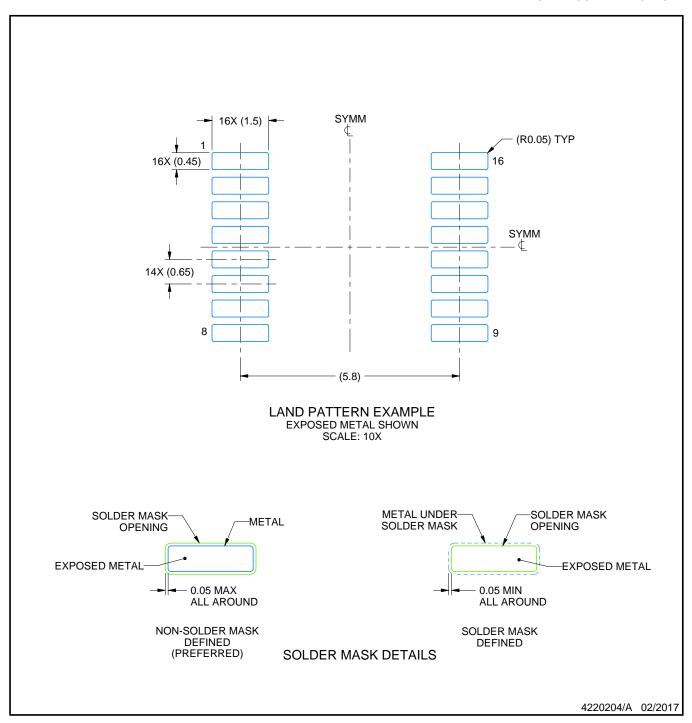
NOTES:

- 1. All linear dimensions are in millimeters. Any dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M.

 2. This drawing is subject to change without notice.

 3. This dimension does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not
- exceed 0.15 mm per side.
- 4. This dimension does not include interlead flash. Interlead flash shall not exceed 0.25 mm per side.
- 5. Reference JEDEC registration MO-153.





NOTES: (continued)

6. Publication IPC-7351 may have alternate designs.

7. Solder mask tolerances between and around signal pads can vary based on board fabrication site.

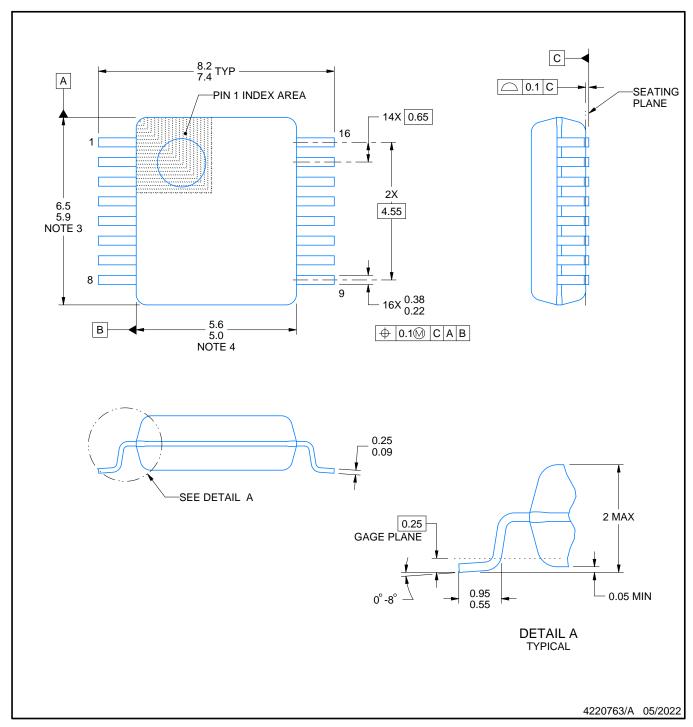


NOTES: (continued)

- 8. Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate design recommendations.
- 9. Board assembly site may have different recommendations for stencil design.







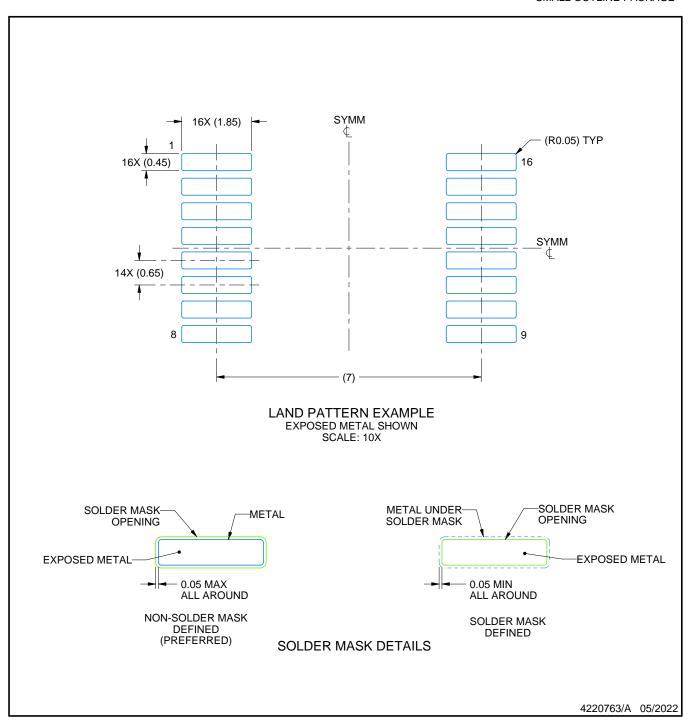
NOTES:

- 1. All linear dimensions are in millimeters. Any dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M.

 2. This drawing is subject to change without notice.

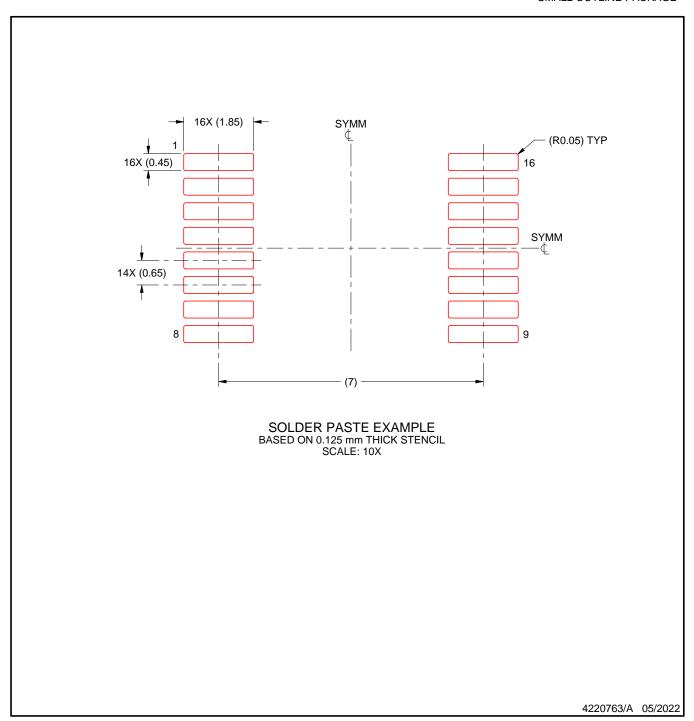
 3. This dimension does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not
- exceed 0.15 mm per side.
 4. Reference JEDEC registration MO-150.





NOTES: (continued)

- 5. Publication IPC-7351 may have alternate designs.
- 6. Solder mask tolerances between and around signal pads can vary based on board fabrication site.



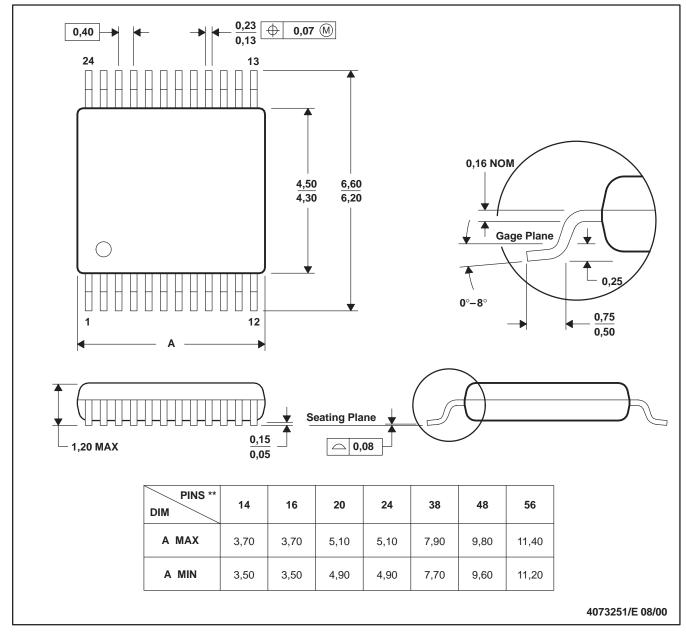
NOTES: (continued)

- 7. Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate design recommendations.
- 8. Board assembly site may have different recommendations for stencil design.

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



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