

SN74AHC125Q Automotive Quadruple Bus Buffer Gate with 3-State Outputs

1 Features

- Q devices meet automotive performance requirements
- Customer-specific configuration control can be supported along with major-change approval
- EPIC™ (Enhanced-Performance Implanted CMOS) process
- Operating range 2V to 5.5V V_{CC}
- Latch-up performance exceeds 250mA per JESD

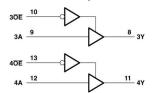
2 Description

The SN74AHC125Q is a quadruple bus buffer gate featuring independent line drivers with 3-state outputs.

Package Information

PART NUMBER	PACKAGE ⁽¹⁾	PACKAGE SIZE ⁽²⁾	BODY SIZE(3)
SN74AHC125Q	D (SOIC, 14)	8.65mm × 6mm	8.65mm × 3.9mm
3N/4AHC125Q	PW (TSSOP, 14)	5mm × 6.4mm	5mm × 4.4mm

- For more information, see Section 10.
- 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



Logic Diagram (Positive Logic)



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3 Pin Configuration and Functions

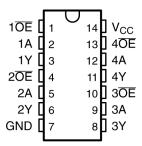


Figure 3-1. D or PW Package, 14-Pin SOIC or TSSOP (Top View)

Table 3-1. Pin Functions

I	PIN	TYPE ⁽¹⁾	DECODINE CO.
NAME	NO.	IYPE	DESCRIPTION
1 ŌĒ	1	I	Output enable
1A	2	I	Input
1Y	3	0	Output
2 OE	4	I	Output enable
2A	5	I	Input
2Y	6	0	Output
3 OE	8	I	Output enable
3A	9	I	Input
3Y	10	I	Output
4 OE	13	I	Output enable
4A	12	I	Input
4Y	11	0	Output
GND	7	_	Ground
V _{CC}	14	I	Supply voltage

⁽¹⁾ I = input, O = output

4 Specifications

4.1 Absolute Maximum Ratings

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

			MIN	MAX	UNIT
V _{CC}	Supply voltage range		-0.5	7	V
V _I (2)	Input voltage range		-0.5	7	V
V _O ⁽²⁾	Output voltage range		-0.5	V _{CC} + 0.5	V
I _{IK}	Input clamp current	(V ₁ < 0)		-20	mA
I _{OK}	Output clamp current	$(V_O < 0 \text{ or } V_O > V_{CC})$		±20	mA
Io	Continuous output current	$(V_O = 0 \text{ to } V_{CC})$		±25	mA
	Continuous current through	/ _{CC} or GND		±50	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, 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.

4.2 Recommended Operating Conditions

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

			MIN	MAX	UNIT	
V _{CC}	Supply voltage		2	5.5	V	
		V _{CC} = 2 V	1.5			
V_{IH}	High-level input voltage	V _{CC} = 3 V	2.1		V	
		V _{CC} = 5.5 V	3.85			
		V _{CC} = 2 V		0.5		
V_{IL}	Low-level input voltage	V _{CC} = 3 V		0.9	V	
		V _{CC} = 5.5 V		1.65		
VI	Input voltage	·	0	5.5	V	
Vo	Output voltage		0	V_{CC}	V	
		V _{CC} = 2 V		-50	μA	
I_{OH}	High-level output current	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$		-4	mA	
		V _{CC} = 5 V ± 0.5 V		-8	mA	
		V _{CC} = 2 V		50	μA	
I_{OL}	Low-level output current	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$		4	Л	
		V _{CC} = 5 V ± 0.5 V		8	mA	
۸+/۸۰,	input transition rise or fall rate	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$		100	no/\/	
Δt/Δv	input transition rise or fall rate	$V_{CC} = 5 V \pm 0.5 V$		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, literature number SCBA004.

4.3 Thermal Information

		SN74Al	HC125Q	
	THERMAL METRIC	D (SOIC)	PW (TSSOP)	UNIT
		14 PINS	14 PINS	
$R_{\theta JA}$	Junction-to-ambient thermal resistance ⁽¹⁾	86	113	°C/W

⁽¹⁾ For more information about traditional and new thermal metrics, see the Semiconductor and IC package thermal metrics application report.

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



4.4 Electrical Characteristics

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

PARAMETER	TEST CONDITION	NIC V	T _A = 25°0			MIN	MAX	UNIT
PARAMETER	TEST CONDITIO	ONS V _{CC}	MIN	TYP	MAX	IVIIIV	IVIAA	ONT
		2 V	1.9	2		1.9		
	I _{OH} = -50 μA	3 V	2.9	3		2.9		
V _{OH}		4.5 V	4.4	4.5		4.4		V
	I _{OH} = -4 mA	3 V	2.58			2.48		
	I _{OH} = -8 mA	4.5 V	3.94			3.8		
		2 V			0.1		0.1	
	I _{OL} = 50 μA	3 V			0.1		0.1	
V _{OL}		4.5 V			0.1		0.1	V
	I _{OL} = 4 mA	3 V			0.36		0.5	
	I _{OL} = 8 mA	4.5 V			0.36		0.5	
I _I	V _I = 5.5 V or GND	0 V to 5.5 V			±0.1		±1	μA
I _{OZ}	V _O = V _{CC} or GND	5.5 V			±0.25		±2.5	μΑ
I _{CC}	$V_I = V_{CC}$ or GND, $I_O = 0$	5.5 V			4		40	μΑ
Ci	V _I = V _{CC} or GND	5 V		4	10			pF

4.5 Switching Characteristics, V_{CC} = 3.3 V \pm 0.3 V

over recommended operating free-air temperature range, V_{CC} = 3.3 V \pm 0.3 V (unless otherwise noted) (see Load Circuit and Voltage Waveforms)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	LOAD	T _A = 25°C	;	MIN	MAX	UNIT
FARAWETER	FROW (NAPOT)	10 (001701)	CAPACITANCE	MIN TYF	MAX	IVIIIV	IVIAA	ONII
t _{PLH}	Α	Y	C _L = 15 pF	5.6	8	1	9.5	ns
t _{PHL}	^	, I	CL = 13 pr	5.6	8	1	9.5	115
t _{PZH}	ŌĒ	Y	C _L = 15 pF	5.4	. 8	1	9.5	ns
t _{PZL}	OL	ľ	CL = 13 pr	5.4	. 8	1	9.5	115
t _{PHZ}	ŌĒ	Y	C _L = 15 pF	7	9.7	1	11.5	ns
t _{PLZ}	OL	ľ	CL = 13 pr	7	9.7	1	11.5	115
t _{PLH}	A	Y	C _L = 50 pF	8.1	11.5	1	13	20
t _{PHL}	A	T	CL = 50 pr	8.1	11.5	1	13	ns
t _{PZH}	ŌĒ	Υ	C _L = 50 pF	7.9	11.5	1	13	200
t _{PZL}	OE .	T	CL = 50 pr	7.9	11.5	1	13	ns
t _{PHZ}	. OE	Υ	C = 50 pE	9.5	13.2	1	15	200
t _{PLZ}	UE	Y	C _L = 50 pF	9.5	13.2	1	15	ns

4.6 Switching Characteristics, V_{CC} = 5 V ± 0.5 V

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

PARAMETER	FROM (INPUT)	TO (OUTPUT)	LOAD		T _A = 25°C			MAX	UNIT
FARAINETER	FROW (INFOT)	10 (001701)	CAPACITANCE	MIN	TYP	MAX	MIN	IVIAA	ONII
t _{PLH}	۸	V	C = 15 pE		3.8	5.5	1	6.5	no
t _{PHL}	A	Ť	C _L = 15 pF		3.8	5.5	1	6.5	ns
t _{PZH}	ŌĒ	V	C = 15 pE		3.6	5.1	1	6	no
t _{PZL}	OE .	r	C _L = 15 pF		3.6	5.1	1	6	ns

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

PARAMETER	FROM (INPUT) TO (OUTPUT) LOAD		LOAD	T _A = 25°C			MIN MAX		UNIT
PANAMILILIN	TROW (NAPOT)	10 (0011-01)	CAPACITANCE	MIN	TYP	MAX	IVIIIA	WAA	ONIT
t _{PHZ}	ŌĒ	Υ	C _L = 15 pF		4.6	6.8	1	8	ns
t _{PLZ}	OL	ı	CL = 13 pr		4.6	6.8	1	8	115
t _{PLH}	А	Υ	C _L = 50 pF		5.3	7.5	1	8.5	ns
t _{PHL}	Α	ı	CL = 30 pr		5.3	7.5	1	8.5	115
t _{PZH}	ŌĒ	Υ	C = 50 pE		5.1	7.1	1	8	no
t _{PZL}	OE	ľ	C _L = 50 pF		5.1	7.1	1	8	ns
t _{PHZ}	ŌĒ	Υ	C _L = 50 pF		6.1	8.8	1	10	ns
t _{PLZ}	OE .	1	CL - 30 pr		6.1	8.8	1	10	115

4.7 Noise Characteristics

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

	PARAMETER	MIN	MAX	UNIT
V _{OL(P)}	Quiet output, maximum dynamic V _{OL}		0.8	V
V _{OL(V)}	Quiet output, minimum dynamic V _{OL}		-0.8	V
V _{OH(V)}	Quiet output, minimum dynamic V _{OH}	4.4		V
V _{IH(D)}	High-level dynamic input voltage	3.5		V
$V_{IL(D)}$	Low-level dynamic input voltage		1.5	V

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

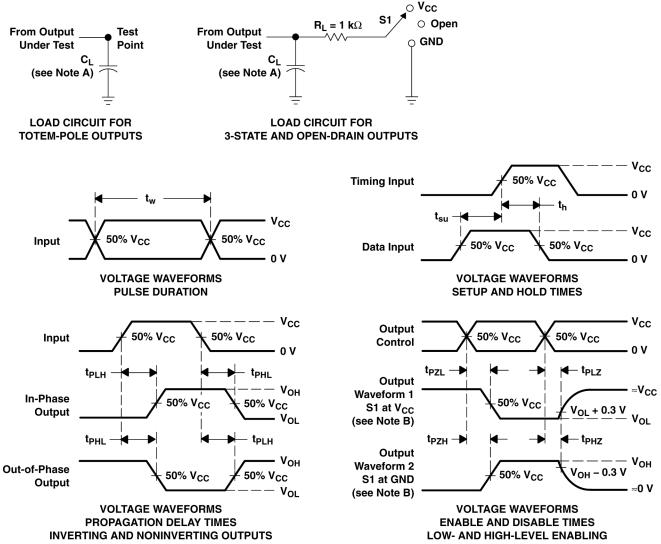
4.8 Operating Characteristics

 V_{CC} = 5 V, T_A = 25°C

	PARAMETER	TEST CO	ONDITIONS	TYP	UNIT
C_{pd}	Power dissipation capacitance	No load,	f = 1 MHz	14	pF



5 Parameter Measurement Information



- A. C₁ 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_{Ω} = 50 Ω , $t_r \leq$ 3 ns, $t_f \leq$ 3 ns.
- D. The outputs are measured one at a time with one input transition per measurement.

Figure 5-1. Load Circuit and Voltage Waveforms

TEST	S1
t _{PLH} /t _{PHL}	Open
t _{PLZ} /t _{PZL}	V_{CC}
t _{PHZ} /t _{PZH}	GND
Open Drain	V _{CC}

6 Detailed Description

6.1 Overview

Each output is disabled when the associated output-enable (\overline{OE}) input is high. When \overline{OE} is low, the respective gate passes the data from the A input to its Y output.

To ensure the high-impedance state during power up or power down, \overline{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.

6.2 Functional Block Diagram

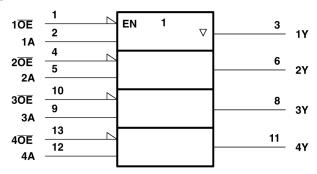


Figure 6-1. Logic Symbol

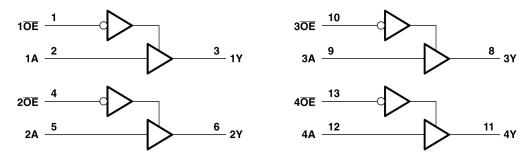


Figure 6-2. Logic Diagram (Positive Logic)

6.3 Device Functional Modes

Table 6-1. Function Table (Each Buffer)

INPUT	S	OUTPUT Y			
ŌĒ	Α	OUTPUT			
L	Н	Н			
L	L	L			
Н	Х	Z			

7 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.

7.1 Power Supply Recommendations

The power supply can be any voltage between the minimum and maximum supply voltage rating located in the *Recommended Operating Conditions*. Each V_{CC} terminal should have a good bypass capacitor to prevent power disturbance. A 0.1- μ F capacitor is recommended for this device. It is acceptable to parallel multiple bypass capacitors to reject different frequencies of noise. The 0.1- μ F and 1- μ F capacitors are commonly used in parallel. The bypass capacitor should be installed as close to the power terminal as possible for best results, as shown in the following layout example.

7.2 Layout

7.2.1 Layout Guidelines

When using multiple-input and multiple-channel logic devices, inputs must never be left floating. In many cases, functions or parts of functions of digital logic devices are unused (for example, when only two inputs of a triple-input AND gate are used or only 3 of the 4 buffer gates are used). Such unused input pins must not be left unconnected because the undefined voltages at the outside connections result in undefined operational states. All unused inputs of digital logic devices must be connected to a logic high or logic low voltage, as defined by the input voltage specifications, to prevent them from floating. The logic level that must be applied to any particular unused input depends on the function of the device. Generally, the inputs are tied to GND or $V_{\rm CC}$, whichever makes more sense for the logic function or is more convenient.

7.2.2 Layout Example

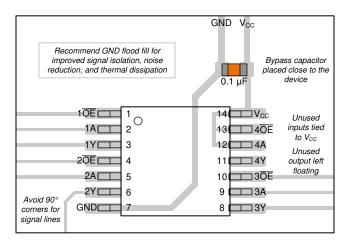


Figure 7-1. Example Layout for the SN74AHC125Q

8 Device and Documentation Support

TI offers an extensive line of development tools. Tools and software to evaluate the performance of the device, generate code, and develop solutions are listed below.

8.1 Documentation Support (Analog)

8.1.1 Related Documentation

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 8-1. Related Links

PARTS	PRODUCT FOLDER	SAMPLE & BUY	TECHNICAL DOCUMENTS	TOOLS & SOFTWARE	SUPPORT & COMMUNITY
SN74AHC125Q	Click here	Click here	Click here	Click here	Click here

8.2 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 guick design help you need.

Linked content is provided "AS IS" by the respective contributors. They do not constitute TI specifications and do not necessarily reflect TI's views; see TI's Terms of Use.

8.3 Trademarks

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8.4 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.

8.5 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

8.6 Glossary

TI Glossary

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

9 Revision History

NOTE: Page numbers for previous revisions may differ from page numbers in the current version.

Changes from Revision * (February 2002) to Revision A (December 2024)

Page

Added Package Information table, Pin Functions table, Thermal Information table, Device Functional Modes, Application and Implementation section, Device and Documentation Support section, and Mechanical,

10 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 part number	Status	Material type	Package Pins	Package qty Carrier	RoHS	Lead finish/	MSL rating/	Op temp (°C)	Part marking
	(1)	(2)			(3)	Ball material	Peak reflow		(6)
						(4)	(5)		
SN74AHC125QPWR	Active	Production	TSSOP (PW) 14	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	HA125Q
SN74AHC125QPWR.A	Active	Production	TSSOP (PW) 14	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	HA125Q
SN74AHC125QPWRG4	Active	Production	TSSOP (PW) 14	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	HA125Q
SN74AHC125QPWRG4.A	Active	Production	TSSOP (PW) 14	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	HA125Q

⁽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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⁽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.

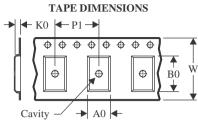
⁽⁶⁾ Part marking: There may be an additional marking, which relates to the logo, the lot trace code information, or the environmental category of the part.

PACKAGE MATERIALS INFORMATION

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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

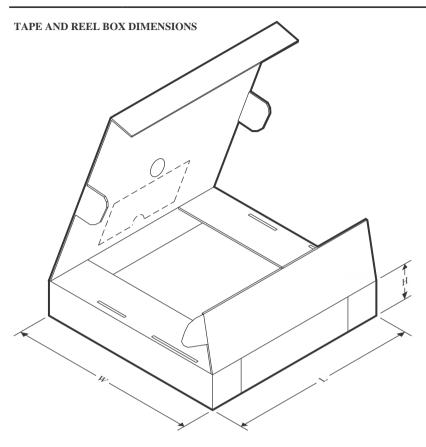


*All dimensions are nominal

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
SN74AHC125QPWR	TSSOP	PW	14	2000	330.0	12.4	6.9	5.6	1.6	8.0	12.0	Q1
SN74AHC125QPWRG4	TSSOP	PW	14	2000	330.0	12.4	6.9	5.6	1.6	8.0	12.0	Q1

PACKAGE MATERIALS INFORMATION

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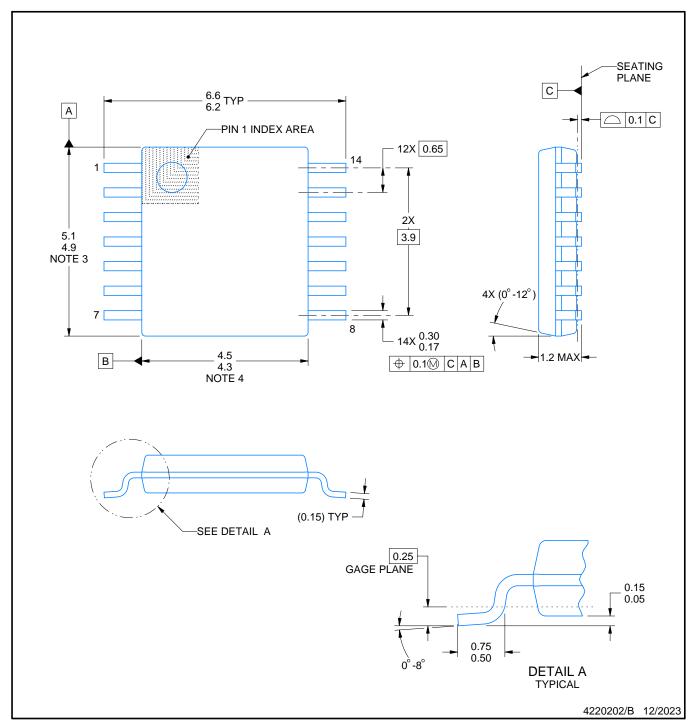


*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74AHC125QPWR	TSSOP	PW	14	2000	353.0	353.0	32.0
SN74AHC125QPWRG4	TSSOP	PW	14	2000	353.0	353.0	32.0



SMALL OUTLINE PACKAGE



NOTES:

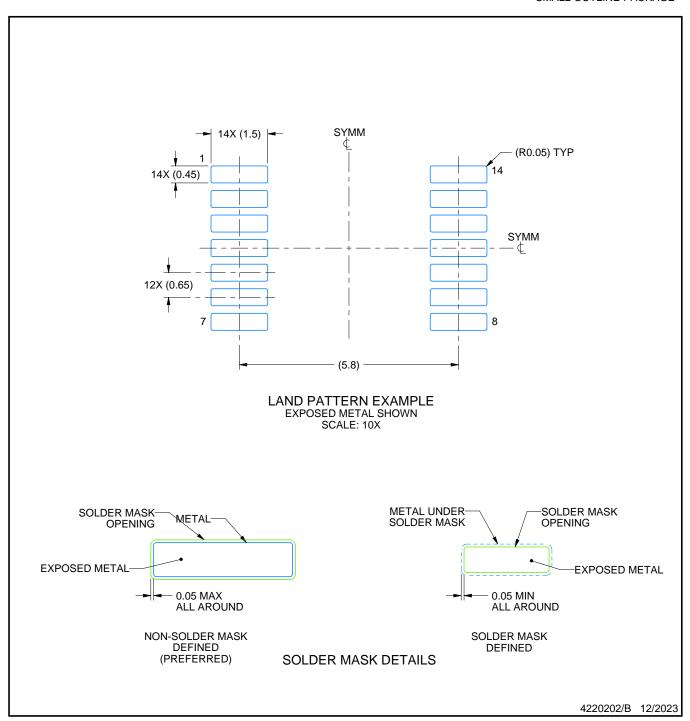
- 1. All linear dimensions are in millimeters. Any dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M.

 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.



SMALL OUTLINE PACKAGE



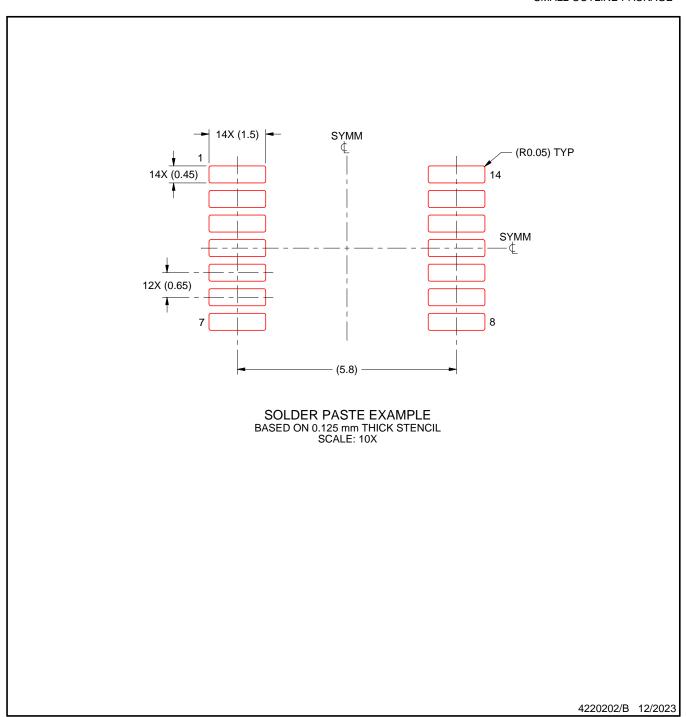
NOTES: (continued)

6. Publication IPC-7351 may have alternate designs.

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



SMALL OUTLINE PACKAGE



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.



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