











SN74AHC1G126

SCLS379K - AUGUST 1997 - REVISED DECEMBER 2014

SN74AHC1G126 Single Bus Buffer Gate With 3-State Output

Features

- Operating Range of 2 V to 5.5 V
- Max t_{pd} of 6 ns at 5 V
- Low Power Consumption, 10-μA Max I_{CC}
- ±8-mA Output Drive at 5 V
- Latch-Up Performance Exceeds 250 mA Per JESD 17

2 Applications

- **Projectors**
- TVs
- Servers
- **Motor Controls**
- **Patient Monitoring**
- Electronic Points of Sale

3 Description

The SN74AHC1G126 device is a single bus buffer gate/line driver with 3-state output. The output is disabled when the output-enable (OE) input is low. When OE is high, true data is passed from the A input to the Y output.

Device Information⁽¹⁾

PART NUMBER	PACKAGE	BODY SIZE (NOM)		
	SOT-23 (5)	2.90 mm x 1.60 mm		
SN74AHC1G126	SC-70 (5)	2.00 mm x 1.30 mm		
	SOT-553 (5)	1.65 mm x 1.20 mm		

(1) For all available packages, see the orderable addendum at the end of the data sheet.

Simplified Schematic

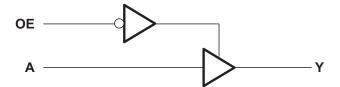




Table of Contents

1	Features 1	9 Detailed Description
2	Applications 1	9.1 Overview
3	Description 1	9.2 Functional Block Diagram
4	Simplified Schematic	9.3 Feature Description
5	Revision History2	9.4 Device Functional Modes
6	Pin Configuration and Functions	10 Application and Implementation
7	Specifications4	10.1 Application Information
'	7.1 Absolute Maximum Ratings	10.2 Typical Application
		11 Power Supply Recommendations 10
	7.2 ESD Ratings	12 Layout 1
	7.4 Thermal Information	12.1 Layout Guidelines 1
	7.5 Electrical Characteristics	12.2 Layout Example 1
	7.6 Switching Characteristics, V _{CC} = 3.3 V ± 0.3 V 5	13 Device and Documentation Support 1
	7.7 Switching Characteristics, $V_{CC} = 5 \text{ V} \pm 0.5 \text{ V} \dots 6$	13.1 Trademarks1
	7.8 Operating Characteristics	13.2 Electrostatic Discharge Caution 1
	7.9 Typical Characteristics	13.3 Glossary 1
8	••	14 Mechanical, Packaging, and Orderable
•		Information 1
8	Parameter Measurement Information 7	14 Mechanical, Packaging, and Orderable Information

5 Revision History

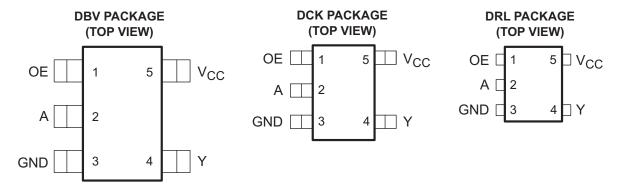
Changes from Revision J (June 2005) to Revision K

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.



6 Pin Configuration and Functions



See mechanical drawings for dimensions.

Pin Functions

F	PIN	TYPE	DESCRIPTION
NO.	NAME	ITPE	DESCRIPTION
1	OE	I	Output Enable
2	Α	I	Input A
3	GND	_	Ground Pin
4	Υ	0	Output Y
5	V _{CC}	_	Power Pin



7 Specifications

7.1 Absolute Maximum Ratings⁽¹⁾

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

			MIN	MAX	UNIT
V_{CC}	Supply voltage range		-0.5	7	V
V_{I}	Input voltage range (2)		-0.5	7	V
Vo	Output voltage range (2)		-0.5	$V_{CC} + 0.5$	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 channel current through V _{CC} or G	ND		±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.

7.2 ESD Ratings

			VALUE	UNIT
		Human body model (HBM), per ANSI/ESDA/JEDEC JS-001, all pins (1)	1500	
V _(ESD)	Electrostatic discharge	Charged device model (CDM), per JEDEC specification JESD22-C101, all pins $^{\left(2\right) }$	1000	V

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

7.3 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}	/ _{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	
V_{I}	Input voltage		0	5.5	V
Vo	Output voltage		0	V_{CC}	V
		V _{CC} = 2 V		-50	μΑ
I _{OH}	High-level output current	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$		-4	m 1
		$V_{CC} = 5 V \pm 0.5 V$		-8	mA
		V _{CC} = 2 V		50	μΑ
I_{OL}	Low-level output current	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$		4	A
		$V_{CC} = 5 V \pm 0.5 V$		mA 8	
A+/A>.	At/Au Input transition visa or fell rate	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$		100	20/1
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

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.



7.4 Thermal Information

			SN74AHC1G126				
	THERMAL METRIC ⁽¹⁾	DBV	DCK	DRL	UNIT		
			5 PINS				
$R_{\theta JA}$	Junction-to-ambient thermal resistance	231.3	287.6	328.7			
$R_{\theta JC(top)}$	Junction-to-case (top) thermal resistance	119.9	97.7	105.1			
$R_{\theta JB}$	Junction-to-board thermal resistance	60.6	65.	150.3	°C/W		
Ψ_{JT}	Junction-to-top characterization parameter	17.8	2.0	6.9			
Ψ_{JB}	Junction-to-board characterization parameter	60.1	64.2	148.4			

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

7.5 Electrical Characteristics

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

DADAMETED	TECT COMPLETIONS	V	T,	₁ = 25°C		–40°C to	85°C	-40°C to 1	25°C	LINUT
PARAMETER	TEST CONDITIONS	V _{CC}	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT
		2 V	1.9	2		1.9		1.9		
	$I_{OH} = -50 \mu A$	3 V	2.9	3		2.9		2.9		
V _{OH}		4.5 V	4.4	4.5		4.4		4.4		V
	$I_{OH} = -4 \text{ mA}$	3 V	2.58			2.48		2.48		
	I _{OH} = −8 mA	4.5 V	3.94			3.8		3.8		
		2 V			0.1		0.1		0.1	
	$I_{OL} = 50 \mu A$	3 V			0.1		0.1		0.1	
V _{OL}		4.5 V			0.1		0.1		0.1	V
	I _{OL} = 4 mA	3 V			0.36		0.44		0.44	
	I _{OL} = 8 mA	4.5 V			0.36		0.44		0.44	
I _I	V _I = 5.5 V or GND	0 V to 5.5 V			±0.1		±1		±1	μΑ
I _{OZ}	$V_I = V_{CC}$ or GND	5.5 V			±0.25		±2.5		±2.5	μΑ
I _{CC}	$V_I = V_{CC}$ or GND, $I_O = 0$	5.5 V			1		10		10	μΑ
C _i	V _I = V _{CC} or GND	5 V		4	10		10		10	pF
Co	V _O = V _{CC} or GND	5 V		10						pF

7.6 Switching Characteristics, V_{CC} = 3.3 V ± 0.3 V

over recommended operating free-air temperature range (unless otherwise noted) (see Figure 3)

DADAMETED	FROM	то	LOAD	T,	_A = 25°C		-40°C to	85°C	-40°C to 1	25°C	LINUT
PARAMETER	(INPUT)	(OUTPUT)	CAPACITANCE	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT
t _{PLH}	А	Υ	C _I = 15 pF		5.6	8	1	9.5	1	10	20
t _{PHL}	A	ī	O _L = 15 pr		5.6	8	1	9.5	1	10	ns
t _{PZH}	OE	Υ	0 15 5		5.4	8	1	9.5	1	10	20
t _{PZL}	OE	Y	$C_L = 15 pF$		5.4	8	1	9.5	1	10	ns
t _{PHZ}	OE	Υ	C _I = 15 pF		7	9.7	1	11.5	1	12.5	20
t_{PLZ}	OE	ī	O _L = 15 μF		7	9.7	1	11.5	1	12.5	ns
t _{PLH}	Α	V	C 50 pE		8.1	11.5	1	13	1	14	20
t _{PHL}	А	Y	$C_L = 50 pF$		8.1	11.5	1	13	1	14	ns
t _{PZH}	OE	Υ	C _L = 50 pF		7.9	11.5	1	13	1	14	20
t _{PZL}	OE	r	C _L = 50 pr		7.9	11.5	1	13	1	14	ns
t _{PHZ}	OE	Υ	C		9.5	13.2	1	15	1	16	20
t _{PLZ}	OE	r	$C_L = 50 pF$		9.5	13.2	1	15	1	16	ns



7.7 Switching Characteristics, $V_{cc} = 5 V \pm 0.5 V$

over recommended operating free-air temperature range (unless otherwise noted) (see Figure 3)

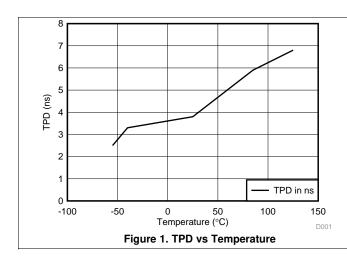
DADAMETER	FROM	то	LOAD	Т	_A = 25°C		-40°C to	85°C	-40°C to 1	25°C			
PARAMETER	(INPUT)	(OUTPUT)	CAPACITANCE	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT		
t _{PLH}	А	Υ	C _I = 15 pF		3.8	5.5	1	6.5	1	7	20		
t _{PHL}	A	ī	O _L = 15 pr		3.8	5.5	1	6.5	1	7	ns		
t _{PZH}	OE	Υ	C _I = 15 pF		3.6	5.1	1	6	1	6.5	no		
t _{PZL}	OE	ī	O _L = 15 μF		3.6	5.1	1	6	1	6.5	ns		
t _{PHZ}	OE	V	V	Υ	C ₁ = 15 pF		4.6	6.8	1	8	1	8.5	ns
t_{PLZ}	OE	ī	O _L = 15 pr		4.6	6.8	1	8	1	8.5	115		
t _{PLH}	۸	Υ	C		5.3	7.5	1	8.5	1	9.5	20		
t _{PHL}	Α	Y	$C_L = 50 pF$		5.3	7.5	1	8.5	1	9.5	ns		
t _{PZH}	OE	Υ	C		5.1	7.1	1	8	1	9	20		
t _{PZL}	OE	Y	$C_L = 50 pF$		5.1	7.1	1	8	1	9	ns		
t _{PHZ}	OE	Υ	C	·	6.1	8.8	1	10	1	11	20		
t _{PLZ}	OE	r	$C_L = 50 pF$		6.1	8.8	1	10	1	11	ns		

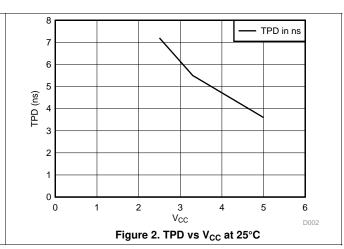
7.8 Operating Characteristics

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

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

7.9 Typical Characteristics



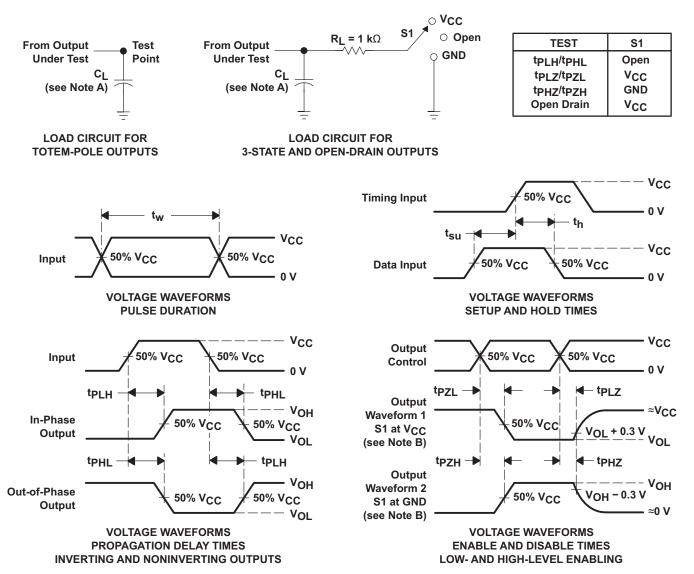


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8 Parameter Measurement Information



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, $Z_O = 50 \Omega$, $t_r \leq$ 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 3. Load Circuit and Voltage Waveforms



9 Detailed Description

9.1 Overview

The SN74AHC1G126 device is a single bus buffer gate/line driver with 3-state output. The output is disabled when the output-enable (OE) input is low. When OE is high, true data is passed from the A input to the Y output.

To ensure the high-impedance state during power up or power down, OE should be tied to GND through a pulldown resistor; the minimum value of the resistor is determined by the current-sourcing capability of the driver.

9.2 Functional Block Diagram

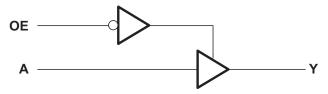


Figure 4. Logic Diagram (Positive Logic)

9.3 Feature Description

- · Wide operating voltage range
 - Operates from 2 V to 5.5 V
- Allows down-voltage translation
 - Inputs accept voltages to 5.5 V

9.4 Device Functional Modes

Table 1. Function Table

INP	UTS	OUTPUT
OE	Α	Υ
Н	Н	Н
Н	L	L
L	Χ	Z



10 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. Customers should validate and test their design implementation to confirm system functionality.

10.1 Application Information

The SN74AHC1G126 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 inputs are 5.5-V tolerant at any valid $V_{\rm CC}$, making it Ideal for translating down to $V_{\rm CC}$.

10.2 Typical Application

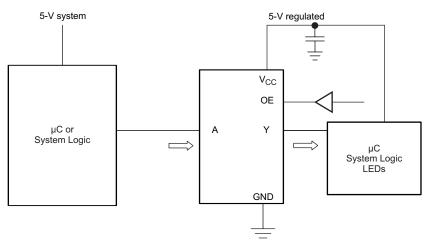


Figure 5. Typical Application Schematic

10.2.1 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.

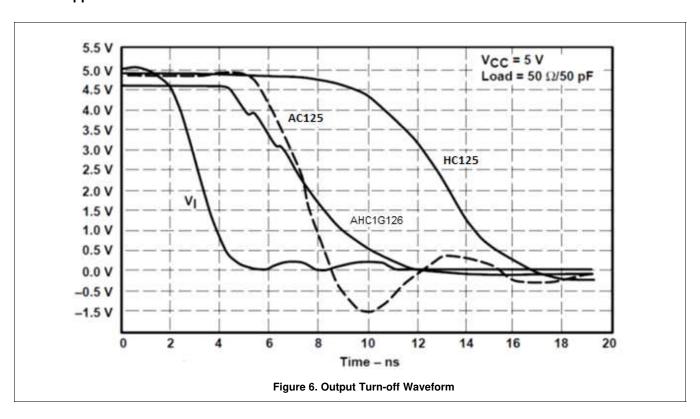
10.2.2 Detailed Design Procedure

- 1. Recommended Input Conditions
 - For rise time and fall time specifications, see Δt/ΔV in the *Recommended Operating Conditions* table.
 - For specified High and low levels, see V_{IH} and V_{IL} in the Recommended Operating Conditions table.
- 2. Recommend Output Conditions
 - Load currents should not exceed 25 mA per output and 50 mA total for the part.
 - Outputs should not be pulled above V_{CC}.



Typical Application (continued)

10.2.3 Application Curves



11 Power Supply Recommendations

The power supply can be any voltage between the MIN and MAX supply voltage rating located in the *Recommended Operating Conditions* table.

Each V_{CC} pin should have a good bypass capacitor to prevent power disturbance. For devices with a single supply, 0.1 μ F is recommended. If there are multiple V_{CC} pins, 0.01 μ F or 0.022 μ F is recommended for each power pin. It is acceptable to parallel multiple bypass caps to reject different frequencies of noise. A 0.1 μ F and 1 μ F are commonly used in parallel. The bypass capacitor should be installed as close to the power pin as possible for best results.



12 Layout

12.1 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 7 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.

12.2 Layout Example

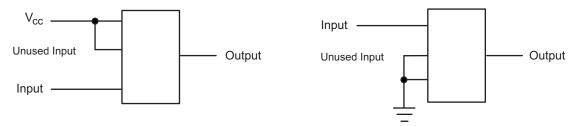


Figure 7. Layout Diagram

13 Device and Documentation Support

13.1 Trademarks

All trademarks are the property of their respective owners.

13.2 Electrostatic Discharge Caution



These devices have limited built-in ESD protection. The leads should be shorted together or the device placed in conductive foam during storage or handling to prevent electrostatic damage to the MOS gates.

13.3 Glossary

SLYZ022 — TI Glossary.

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

14 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 Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan	Lead finish/ Ball material	MSL Peak Temp	Op Temp (°C)	Device Marking (4/5)	Samples
74AHC1G126DBVTG4	ACTIVE	SOT-23	DBV	5	250	RoHS & Green	(6) NIPDAU	Level-1-260C-UNLIM	-40 to 125	A26G	Samples
74AHC1G126DCKRE4	ACTIVE	SC70	DCK	5	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	AN3	Samples
74AHC1G126DCKTE4	ACTIVE	SC70	DCK	5	250	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	AN3	Samples
74AHC1G126DCKTG4	ACTIVE	SC70	DCK	5	250	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	AN3	Samples
SN74AHC1G126DBVR	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	NIPDAU SN	Level-1-260C-UNLIM	-40 to 125	(A263, A26G, A26J, A26S)	Samples
SN74AHC1G126DCKR	ACTIVE	SC70	DCK	5	3000	RoHS & Green	NIPDAU SN	Level-1-260C-UNLIM	-40 to 125	(AN3, ANG, ANJ, AN S)	Samples
SN74AHC1G126DRLR	ACTIVE	SOT-5X3	DRL	5	4000	RoHS & Green	NIPDAUAG	Level-1-260C-UNLIM	-40 to 125	ANS	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) RoHS: TI defines "RoHS" to mean semiconductor products that are compliant with the current EU RoHS requirements for all 10 RoHS substances, including the requirement that RoHS substance do not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, "RoHS" products are suitable for use in specified lead-free processes. TI may reference these types of products as "Pb-Free".

RoHS Exempt: TI defines "RoHS Exempt" to mean products that contain lead but are compliant with EU RoHS pursuant to a specific EU RoHS exemption.

Green: TI defines "Green" to mean the content of Chlorine (CI) and Bromine (Br) based flame retardants meet JS709B low halogen requirements of <=1000ppm threshold. Antimony trioxide based flame retardants must also meet the <=1000ppm threshold requirement.

⁽³⁾ MSL, Peak Temp. - The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.

⁽⁴⁾ There may be additional marking, which relates to the logo, the lot trace code information, or the environmental category on the device.

⁽⁵⁾ Multiple Device Markings will be inside parentheses. Only one Device 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 Device Marking for that device.

PACKAGE OPTION ADDENDUM

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(6) Lead finish/Ball material - Orderable Devices 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.

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OTHER QUALIFIED VERSIONS OF SN74AHC1G126:

Enhanced Product: SN74AHC1G126-EP

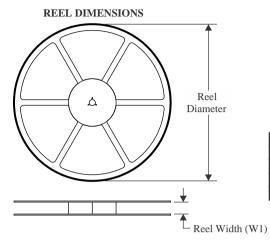
NOTE: Qualified Version Definitions:

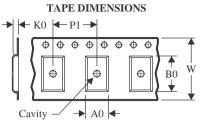
• Enhanced Product - Supports Defense, Aerospace and Medical Applications



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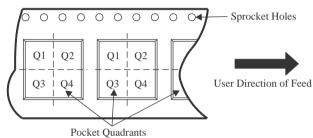
TAPE AND REEL INFORMATION





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

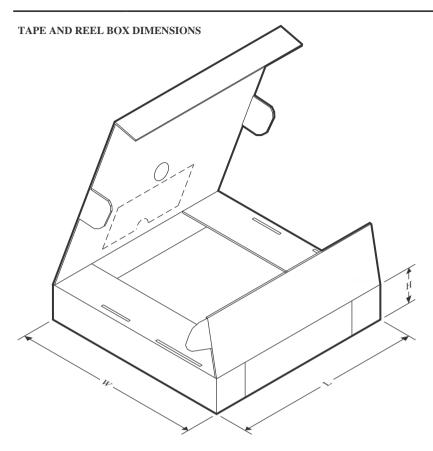


*All dimensions are nominal

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
74AHC1G126DBVTG4	SOT-23	DBV	5	250	178.0	9.0	3.23	3.17	1.37	4.0	8.0	Q3
74AHC1G126DCKTG4	SC70	DCK	5	250	178.0	9.2	2.4	2.4	1.22	4.0	8.0	Q3
SN74AHC1G126DBVR	SOT-23	DBV	5	3000	180.0	8.4	3.23	3.17	1.37	4.0	8.0	Q3
SN74AHC1G126DBVR	SOT-23	DBV	5	3000	178.0	9.2	3.3	3.23	1.55	4.0	8.0	Q3
SN74AHC1G126DBVR	SOT-23	DBV	5	3000	178.0	9.0	3.3	3.2	1.4	4.0	8.0	Q3
SN74AHC1G126DCKR	SC70	DCK	5	3000	178.0	9.0	2.4	2.5	1.2	4.0	8.0	Q3
SN74AHC1G126DCKR	SC70	DCK	5	3000	178.0	9.2	2.4	2.4	1.22	4.0	8.0	Q3
SN74AHC1G126DRLR	SOT-5X3	DRL	5	4000	180.0	8.4	1.98	1.78	0.69	4.0	8.0	Q3



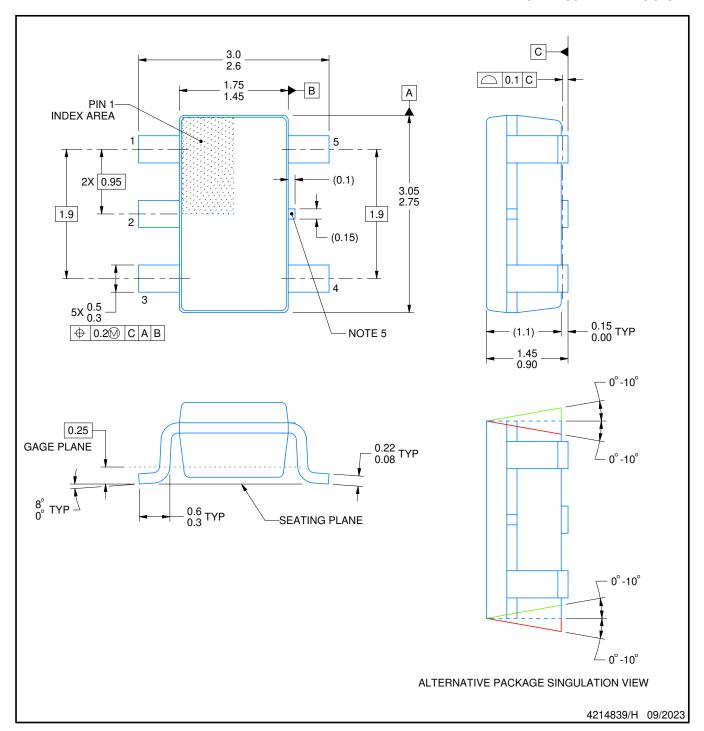
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*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
74AHC1G126DBVTG4	SOT-23	DBV	5	250	180.0	180.0	18.0
74AHC1G126DCKTG4	SC70	DCK	5	250	180.0	180.0	18.0
SN74AHC1G126DBVR	SOT-23	DBV	5	3000	202.0	201.0	28.0
SN74AHC1G126DBVR	SOT-23	DBV	5	3000	180.0	180.0	18.0
SN74AHC1G126DBVR	SOT-23	DBV	5	3000	180.0	180.0	18.0
SN74AHC1G126DCKR	SC70	DCK	5	3000	180.0	180.0	18.0
SN74AHC1G126DCKR	SC70	DCK	5	3000	180.0	180.0	18.0
SN74AHC1G126DRLR	SOT-5X3	DRL	5	4000	202.0	201.0	28.0



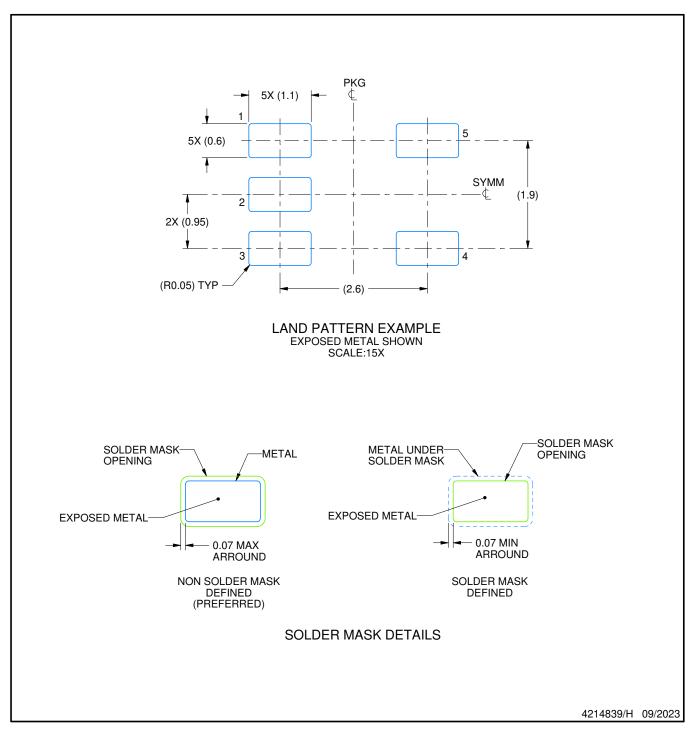


NOTES:

- 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. Reference JEDEC MO-178.

- 4. Body dimensions do not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0.25 mm per side.
- 5. Support pin may differ or may not be present.

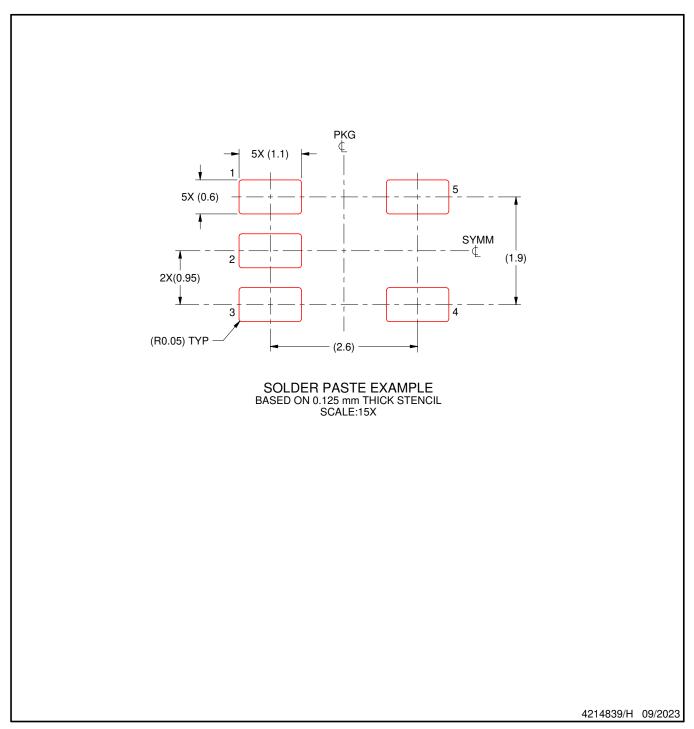




NOTES: (continued)

6. Publication IPC-7351 may have alternate designs.7. Solder mask tolerances between and around signal pads can vary based on board fabrication site.





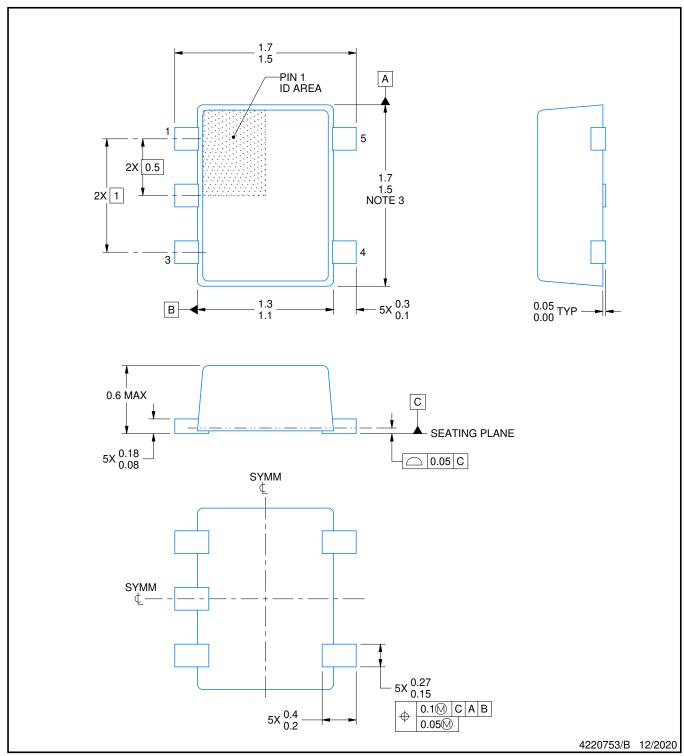
NOTES: (continued)

- 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.





PLASTIC SMALL OUTLINE

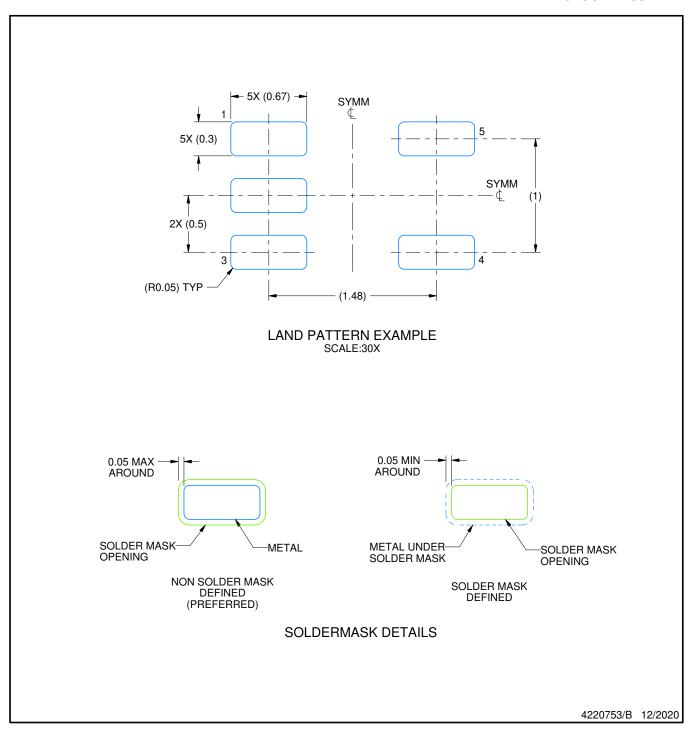


NOTES:

- All linear dimensions are in millimeters. Any dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M.
 This drawing is subject to change without notice.
 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-293 Variation UAAD-1



PLASTIC SMALL OUTLINE

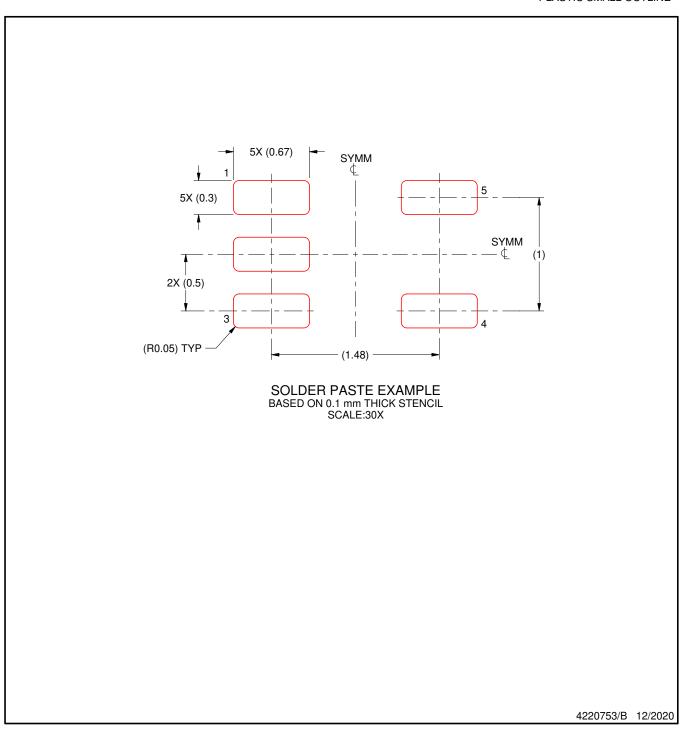


NOTES: (continued)

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



PLASTIC SMALL OUTLINE



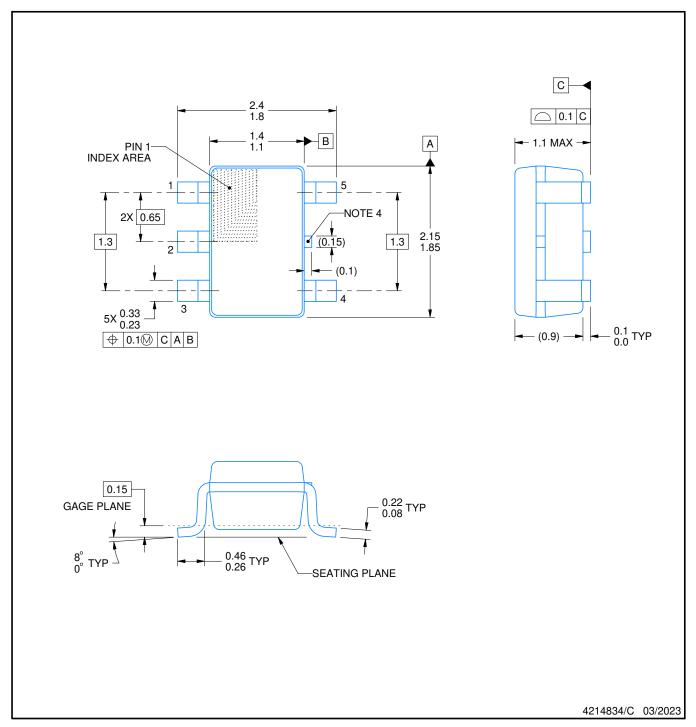
NOTES: (continued)



^{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.

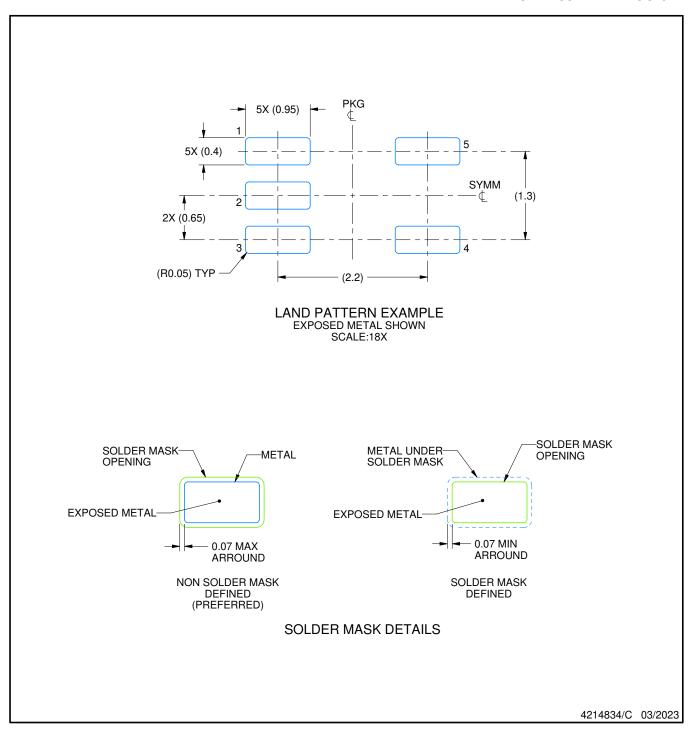




NOTES:

- All linear dimensions are in millimeters. Any dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M.
 This drawing is subject to change without notice.
 Reference JEDEC MO-203.
 Support pin may differ or may not be present.

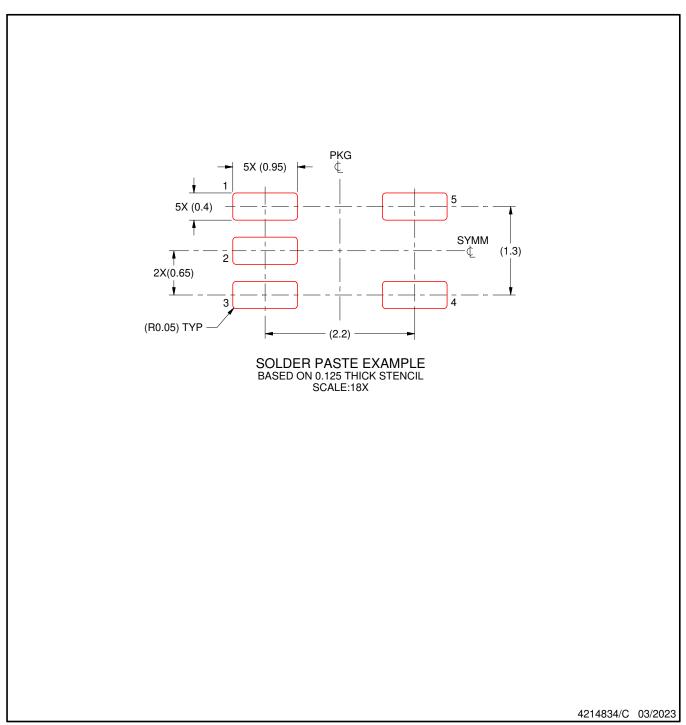




NOTES: (continued)

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





NOTES: (continued)

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



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