







SN74AHC1G126

SCLS379M - AUGUST 1997 - REVISED FEBRUARY 2024

SN74AHC1G126 Single Bus Buffer Gate With 3-State Output

1 Features

- Operating range of 2V to 5.5V
- Max t_{pd} of 6ns at 5V
- Low power consumption, 10µA max I_{CC}
- ±8mA output drive at 5V
- Latch-up performance exceeds 250mA 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.

Package Information

PART NUMBER PACKAGE ⁽¹⁾		PACKAGE SIZE(2)	BODY SIZE(3)
	DBV (SOT-23, 5)	2.9mm x 2.8mm	2.9mm x 1.6mm
SN74AHC1G126	DCK (SC-70, 5)	2mm x 2.1mm	2mm × 1.25mm
	DRL (SOT-553, 5)	1.6mm x 1.6mm	1.6mm × 1.2mm

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

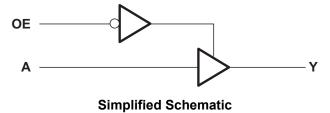


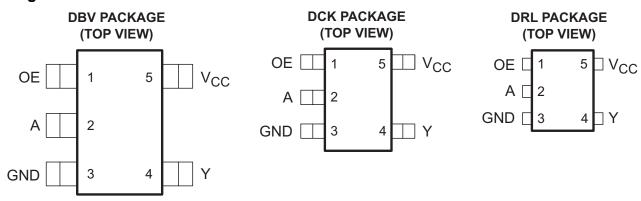


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4 Pin Configuration and Functions



See mechanical drawings for dimensions.

Table 4-1. Pin Functions

	PIN	TYPE ⁽¹⁾	DESCRIPTION			
NO.	NAME	I TPE(')	DESCRIPTION			
1	OE	I	Output Enable			
2	A	I	Input A			
3	GND	_	Ground Pin			
4	Y	0	Output Y			
5	V _{CC}	_	Power Pin			

(1) Signal Types: I = Input, O = Output, I/O = Input or Output



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		-0.5	7	V
V _I ⁽²⁾	Input voltage range	nput voltage range			
V _O (2)	Output voltage range		-0.5	V _{CC} + 0.5	V
I _{IK}	Input clamp current	(V _I < 0)		-20	mA
I _{OK}	Output clamp current	$(V_O < 0 \text{ or } V_O > V_{CC})$		±20	mA
Io	Continuous output current	$(V_O = 0 \text{ to } V_{CC})$		±25	mA
	Continuous channel current through V _{CC} or GND	·		±50	mA
T _{stg}	Storage temperature range	-65	150	°C	
TJ	Junction Temperature			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 Section 5.3 is not implied. 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⁾	±1500	
V _(ESD)	Electrostatic discharge	Charged device model (CDM), per JEDEC specification JESD22-C101, all pins ⁽²⁾	±1000	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)

			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 V ± 0.3 V		-4	mA		
		V _{CC} = 5 V ± 0.5 V		-8	ША		
		V _{CC} = 2 V		50	μA		
I _{OL}	Low-level output current	V _{CC} = 3.3 V ± 0.3 V		4	mΛ		
		V _{CC} = 5 V ± 0.5 V		8	mA		
Δt/Δν	Input transition rise or fall rate	V _{CC} = 3.3 V ± 0.3 V		100	nc/\/		
ΔΨΔΨ	input transition rise of fall rate	V _{CC} = 5 V ± 0.5 V		20	ns/V		

Product Folder Links: SN74AHC1G126

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.

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

		MIN	MAX	UNIT
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).

5.4 Thermal Information

	THERMAL METRIC(1)	DBV(SOT-23)	DRL(SOT-553)	UNIT	
$R_{\theta JA}$	Junction-to-ambient thermal resistance	278	289.2	328.7	
R _{θJC(top)}	Junction-to-case (top) thermal resistance	180.5	205.8	105.1	
$R_{\theta JB}$	Junction-to-board thermal resistance	184.4	176.2	150.3	°C/W
ΨЈТ	Junction-to-top characterization parameter	115.4	117.6	6.9	C/VV
ΨЈВ	Junction-to-board characterization parameter	183.4	175.1	148.4	
$R_{\theta JC(bot)}$	Junction-to-case (bot) thermal resistance	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 recommended operating free-air temperature range (unless otherwise noted)

	PARAMETER	TEST	V	TA	T _A = 25°C			-40°C to 85°C		-40°C to 125°C	
	PARAMETER	CONDITIONS	V _{cc}	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT
			2 V	1.9	2		1.9		1.9		
		I _{OH} = -50 μA	3 V	2.9	3		2.9		2.9		
V _{OH}	High level output voltage		4.5 V	4.4	4.5		4.4		4.4		V
		I _{OH} = −4 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 μA	3 V			0.1		0.1		0.1	
V _{OL}	Low level output voltage		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	Input leakage current	V _I = 5.5 V or GND	0 V to 5.5 V			±0.1		±1		±1	μA
I _{OZ}	Off-State (High- Impedance State) Output Current (of a 3-State Output)	V _I = V _{CC} or GND	5.5 V			±0.25		±2.5		±2.5	μА
I _{CC}	Supply current	$V_1 = V_{CC}$ or $I_0 = 0$	5.5 V			1		10		10	μA
C _i	Input capacitance	V _I = V _{CC} or GND	5 V		4	10		10		10	pF
Co	Output capacitance	$V_O = V_{CC}$ or GND	5 V		10						pF

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

over recommended operating free-air temperature range (unless otherwise noted) (see Load Circuit and Voltage Waveforms)

PARAMETER	FROM	то	LOAD	Т	T _A = 25°C		-40°C to	85°C	-40°C to	125°C	UNIT	
PARAMETER	(INPUT)	(OUTPUT)	CAPACITANCE	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNII	
t _{PLH}	Α	Y	C _L = 15 pF		5.6	8	1	9.5	1	10	ns	
t _{PHL}	^	'	OL = 15 pi		5.6	8	1	9.5	1	10	113	
t _{PZH}	OE	Y	C _L = 15 pF		5.4	8	1	9.5	1	10	ns	
t _{PZL}		I	OL = 13 pr		5.4	8	1	9.5	1	10	115	
t _{PHZ}	OF	Y	C _L = 15 pF		7	9.7	1	11.5	1	12.5	ns	
t _{PLZ}	OE	'	OL = 15 pi		7	9.7	1	11.5	1	12.5	113	
t _{PLH}	Α	Y	C _I = 50 pF		8.1	11.5	1	13	1	14	ns	
t _{PHL}	^		OL = 30 pi		8.1	11.5	1	13	1	14	113	
t _{PZH}	OE	Y	C. = 50 pE		7.9	11.5	1	13	1	14	ns	
t _{PZL}	0E	J OE Y	I	C _L = 50 pF		7.9	11.5	1	13	1	14	115
t _{PHZ}	OE	Y	C _L = 50 pF		9.5	13.2	1	15	1	16	ns	
t _{PLZ}	OL	I	OL - 30 pi		9.5	13.2	1	15	1	16	115	

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

over recommended operating free-air temperature range (unless otherwise noted) (see Load Circuit and Voltage Waveforms)

		<u>y</u>	, , ,									
PARAMETER	FROM	то	LOAD	7	T _A = 25°C		–40°C to	85°C	-40°C to	125°C	UNIT	
I ANAMETER	(INPUT)	(OUTPUT)	CAPACITANCE	MIN	TYP	MAX	MIN	MAX	MIN	MAX	0.411	
t _{PLH}	А	Υ	C _L = 15 pF		3.8	5.5	1	6.5	1	7	ns	
t _{PHL}	^	'	OL = 15 bi		3.8	5.5	1	6.5	1	7	113	
t _{PZH}	OE	Υ	C _L = 15 pF		3.6	5.1	1	6	1	6.5	ns	
t _{PZL}		ı	OL = 13 pr		3.6	5.1	1	6	1	6.5	115	
t _{PHZ}	ΩE	Y	C _L = 15 pF		4.6	6.8	1	8	1	8.5	ns	
t _{PLZ}	OE		ı	OL = 13 pr		4.6	6.8	1	8	1	8.5	115
t _{PLH}	А	Υ	C _L = 50 pF		5.3	7.5	1	8.5	1	9.5	no	
t _{PHL}	A	ī	CL = 50 pr		5.3	7.5	1	8.5	1	9.5	ns	
t _{PZH}	OE	Υ	C _L = 50 pF		5.1	7.1	1	8	1	9	ne	
t _{PZL}	OE	T T	OL = 50 PF		5.1	7.1	1	8	1	9	ns	
t _{PHZ}	OE	Υ	C _L = 50 pF		6.1	8.8	1	10	1	11	ns	
t _{PLZ}	OE	T T	O _L = 50 pr		6.1	8.8	1	10	1	11	115	

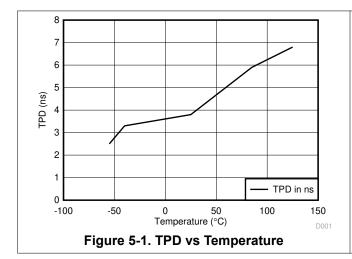
5.8 Operating Characteristics

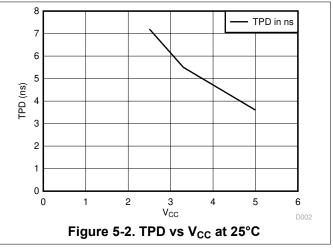
 V_{CC} = 5 V, T_A = 25°C

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

Product Folder Links: SN74AHC1G126

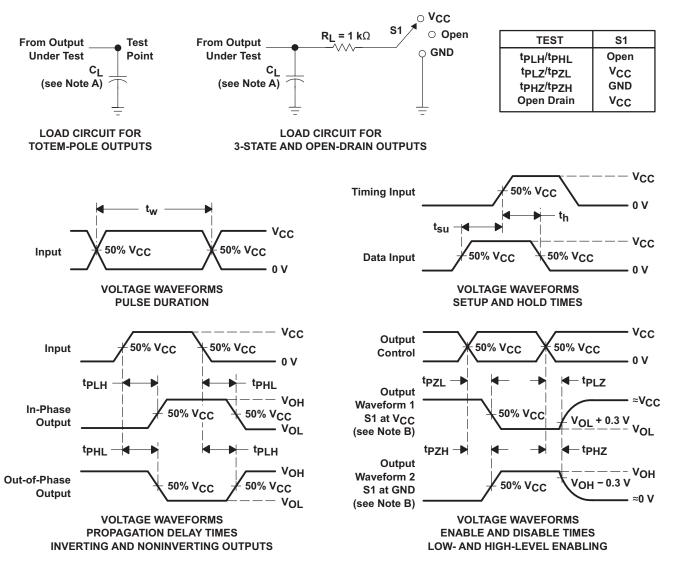
5.9 Typical Characteristics







6 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_O = 50 Ω , $t_f \leq$ 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 6-1. Load Circuit and Voltage Waveforms

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7 Detailed Description

7.1 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.

7.2 Functional Block Diagram

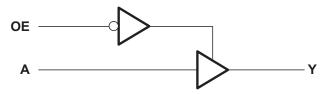


Figure 7-1. Logic Diagram (Positive Logic)

7.3 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

7.4 Device Functional Modes

Table 7-1. Function Table

INPUTS	(1)	OUTPUT ⁽²⁾
OE	Α	Y
Н	Н	Н
Н	L	L
L	Χ	Z

- (1) H = High Voltage Level, L = Low Voltage Level, X = Don't Care
- (2) H = Driving High, L = Driving Low, Z = High Impedance State

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

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_{CC} , making it Ideal for translating down to V_{CC} .

8.2 Typical Application

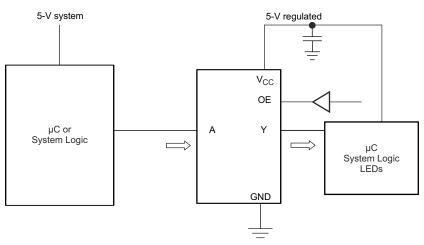


Figure 8-1. Typical Application Schematic

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.

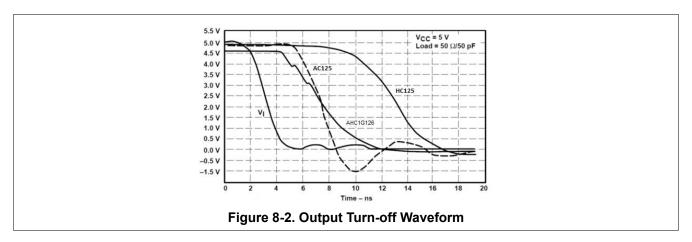
8.2.2 Detailed Design Procedure

- 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.
- 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}.

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8.2.3 Application Curves



8.3 Power Supply Recommendations

The power supply can be any voltage between the MIN and MAX supply voltage rating located in the Section 5.3 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.

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.

8.4.2 Layout Example

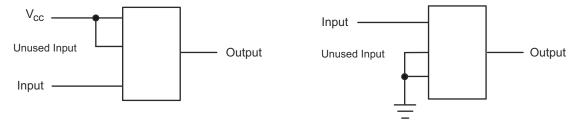


Figure 8-3. Layout Diagram



9 Device and Documentation Support

9.1 Documentation Support (Analog)

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.

9.2.1 Related Documentation

For related documentation, see the following:

- Texas Instruments, CMOS Power Consumption and Cpd Calculation application note
- Texas Instruments, Designing With Logic application note
- Texas Instruments, Thermal Characteristics of Standard Linear and Logic (SLL) Packages and Devices application note
- Texas Instruments, Implications of Slow or Floating CMOS Inputs application note

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.

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.

9.4 Trademarks

TI E2E[™] is a trademark of Texas Instruments.

All trademarks are the property of their respective owners.

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 L (October 2023) to Revision M (February 2024)

Page

Changes from Revision K (December 2014) to Revision L (October 2023)

Page

Product Folder Links: SN74AHC1G126



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 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 (Cl) 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	Pins	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	9.0	3.3	3.2	1.4	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
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.







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-203.

- 4. Support pin may differ or may not be present.5. Lead width does not comply with JEDEC.





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:

- 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-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.

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