







SN74AHC1G32

SCLS317Q - MARCH 1996 - REVISED APRIL 2024

SN74AHC1G32 Single 2-Input Positive-OR Gate

1 Features

- Operating range of 2V to 5.5V
- Max t_{pd} of 6.5ns at 5V
- Low power consumption, 10µA max I_{CC}
- ±8mA output drive at 5V
- Schmitt-trigger action at all inputs makes the circuit tolerant for slower input rise and fall time
- Latch-up performance exceeds 250mA per JESD 17

2 Applications

- **AV Receivers**
- Portable Audio Docks
- Blu-Ray Players and Home Theaters
- MP3 Players and Recorders
- Personal Digital Assistants (PDAs)
- Power:
 - Telecom and Server AC DC Supply
 - Single Controllers
 - Analog
 - Digital
- Client and Enterprise Solid State Drives (SSDs)
- LCD and Digital TVs and High-Definition TVs (HDTVs)
- **Enterprise Tablets**
- Video Analytics Servers
- Wireless Headsets, Keyboards, and Mice

3 Description

The SN74AHC1G32 device is a single 2-input positive-OR gate. The device performs the Boolean function Y = A + B or $Y = \overline{A \cdot B}$ in positive logic.

Package Information

	PART NUMBER	PACKAGE ⁽¹⁾	PACKAGE SIZE(2)	BODY SIZE(3)				
		DBV (SOT-23, 5)	2.90mm × 2.8mm	2.90mm × 1.60mm				
	SN74AHC1G32	DCK (SC70, 5)	2.00mm × 2.1mm	2.00mm × 1.25mm				
		DRL (SOT, 5)	1.60mm × 1.6mm	1.60mm × 1.20mm				

- For more information, see Section 11.
- 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.

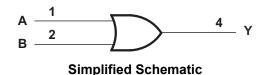




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4 Pin Configuration and Functions

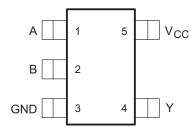


Figure 4-1. DBV Package 5-Pin SOT-23 Top View

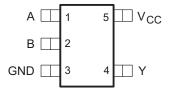
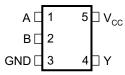


Figure 4-2. DCK Package 5-Pin SC70 Top View



See mechanical drawings for dimensions.

Figure 4-3. DRL Package 5-Pin SOT Top View

Table 4-1. Pin Functions

PIN		TYPE ⁽¹⁾	DESCRIPTION
NO.	NAME	IIIE''	BESONIF HON
1	A	I	Input A
2	В	I	Input B
3	GND	_	Ground Pin
4	Y	0	Output Y
5	V _{CC}	_	Power Pin

Product Folder Links: SN74AHC1G32

(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		-0.5	7	V
VI	Input voltage (2)	-0.5	7	V	
Vo	Output voltage (2)		-0.5	V _{CC} + 0.5	V
I _{IK}	Input clamp current	(V _I < 0)		-20	mA
I _{OK}	Output clamp current	$(V_O < 0 \text{ or } V_O > V_{CC})$		±20	mA
Io	Continuous output current	$(V_O = 0 \text{ to } V_{CC})$		±25	mA
	Continuous current through V _{CC} or GND		±50	mA	
TJ	Maximum junction temperature		150	°C	
T _{stg}	Storage temperature		-60	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.

5.2 ESD Ratings

			VALUE	UNIT
V		Human body model (HBM), per ANSI/ESDA/JEDEC JS-001 ⁽¹⁾	±1500	V
V _(ESD)	Electrostatic discharge	Charged device model (CDM), per JEDEC specification JESD22-C101 ⁽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	μΑ	
I _{OH}	High-level output current	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$		-4	mA	
		$V_{CC} = 5 V \pm 0.5 V$		-8	IIIA	
		V _{CC} = 2 V		50	μA	
I _{OL}	Low-level output current	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$		4	mΛ	
		$V_{CC} = 5 V \pm 0.5 V$		8	mA mA	
Δt/Δν	Input transition rise and fall rate	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$		100	no/\/	
ΔΨΔV	input transition rise and 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. See *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

			SN74AHC1G32					
	THERMAL METRIC(1)	DBV (SOT-23)	DCK (SC70)	DRL (SOT)	UNIT			
		5 PINS	5 PINS	5 PINS				
$R_{\theta JA}$	Junction-to-ambient thermal resistance	278	293.4	328.7	°C/W			
R _{0JC(top)}	Junction-to-case (top) thermal resistance	180.5	208.8	105.1	°C/W			
$R_{\theta JB}$	Junction-to-board thermal resistance	184.4	180.6	150.3	°C/W			
ΨЈТ	Junction-to-top characterization parameter	115.4	120.6	6.9	°C/W			
Ψ _{JB}	Junction-to-board characterization parameter	183.4	179.5	148.4	°C/W			
R _{0JC(bot)}	Junction-to-case (bottom) thermal resistance	N/A	N/A	N/A	°C/W			

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

5.5 Electrical Characteristics

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

	PARAMETER	TEST	T _A = 25°C		-40 TO +80°C		-40 TO +125°C		UNIT		
		CONDITIONS		MIN	TYP	MAX	MIN	MAX	MIN	MAX	
			2 V	1.9	2		1.9		1.9		
		I _{OH} = –50 μΑ	3 V	2.9	3		2.9		2.9		
V _{OH} High level output voltage	L	4.5 V	4.4	4.5		4.4		4.4			
	I _{OH} = -4 mA	3 V	2.58			2.48		2.48		V	
		I _{OH} = -8 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	μА
I _{CC}	Supply current	$V_1 = V_{CC}$ or $I_0 =$	0 5.5 V			1		10		10	μА
C _i	Input Capacitance	V _I = V _{CC} or GND	5 V		2	10		10		10	pF

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	TA	= 25°C		–40°	C to +85°C	-40°C	to +125°C	UNIT	
PARAMETER	(INPUT)	(OUTPUT)	CAPACITANCE	MIN	TYP	MAX	MIN	TYP MAX	MIN	TYP MAX	UNII	
t _{PLH}	- A or B	V	C ₁ = 15 pF		5.5	7.9	1	9.5	1	10	ns	
t _{PHL}		'	OL = 13 pi		5.5	7.9	1	9.5	1	10		
t _{PLH}	- A or B	A or B	V	C ₁ = 50 pF		8	11.4	1	13	1	14	ns
t _{PHL}		'	OL - 30 pi		8	11.4	1	13	1	14	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)

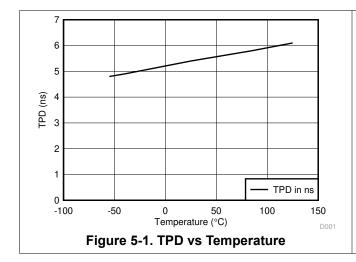
PARAMETER	FROM	то	LOAD	TA	= 25°C		-40°	C to +85°C	-40°C	to +125°C	UNIT
PARAMETER	(INPUT)	(OUTPUT)	CAPACITANCE	MIN	TYP	MAX	MIN	TYP MAX	MIN	TYP MAX	UNII
t _{PLH}	A or B	V	C ₁ = 15 pF		3.8	5.5	1	6.5	1	7	ns
t _{PHL}	AUID		OL - 13 pi		3.8	5.5	1	6.5	1	7	115
t _{PLH}	A or B	V	C ₁ = 50 pF		5.3	7.5	1	8.5	1	9.5	no
t _{PHL}		ľ	OL = 50 pr		5.3	7.5	1	8.5	1	9.5	ns

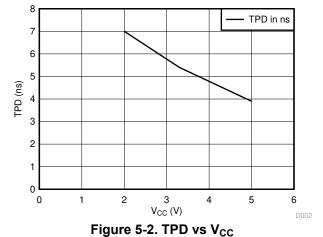
5.8 Operating Characteristics

 V_{CC} = 5 V, T_A = 25°C

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

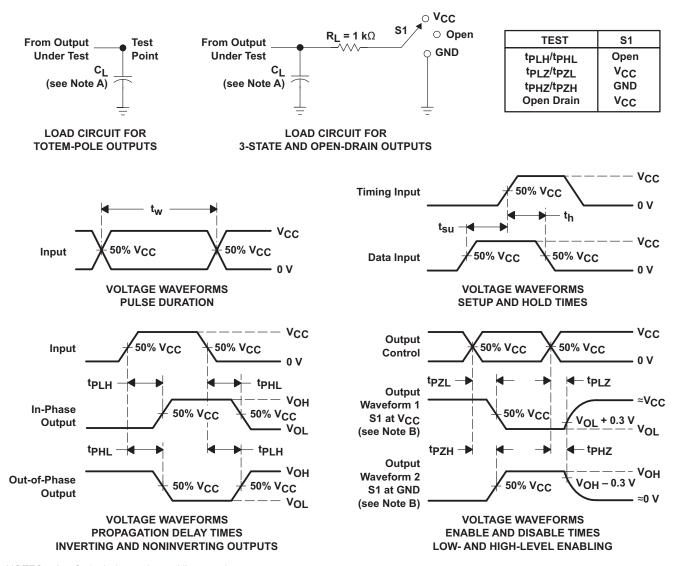
5.9 Typical Characteristics







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, $Z_O = 50 \Omega$, $t_f \leq$ 3 ns. $t_f \leq$ 3 ns.
- D. The outputs are measured one at a time, with one input transition per measurement.
- E. All parameters and waveforms are not applicable to all devices.

Figure 6-1. Load Circuit and Voltage Waveforms

7 Detailed Description

7.1 Overview

The SN74AHC1G32 device is a single 2-input positive OR gate with low drive that produces slow rise and fall times. This reduces ringing on the output signal. The device also has Schmitt-trigger action that will allow for slower or noisier inputs. The input signals are high impedance when $V_{CC} = 0$ V.

7.2 Functional Block Diagram



7.3 Feature Description

- · Wide operating voltage
 - Operates from 2 V to 5.5 V
- · Allows down voltage translation
 - Accepts input voltages to 5.5 V

7.4 Device Functional Modes

Table 7-1 shows the functional modes of the SN74AHC1G32 device.

Table 7-1. Function Table

INPU	TS ⁽¹⁾	OUTPUT ⁽²⁾
Α	В	Υ
Н	Х	Н
X	Н	Н
L	L	L

- (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 SN74AHC1G32 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 can except voltages to 5.5 V at any valid V_{CC} making it ideal for down translation.

8.2 Typical Application

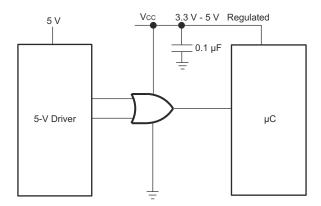


Figure 8-1. Specific Application Schematic

8.2.1 Design Requirements

This device uses CMOS technology and has balanced output drive. Take care 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: SN74AHC1G32

8.2.2 Detailed Design Procedure

- · Recommended input conditions
 - $-\,\,$ 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 $V_{\rm CC}$
- Recommended 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}

8.2.3 Application Curve

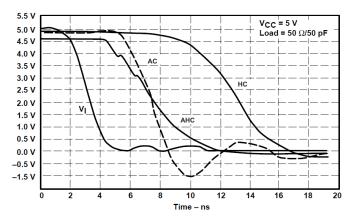


Figure 8-2. Switching Characteristics Comparison

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, then 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 a 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 never float.

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 input pins should not be left unconnected because the undefined voltages at the outside connections result in undefined operational states. Figure 8-3 specifies the 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 most convenient. It is generally acceptable to float outputs, unless the part is a transceiver. If the transceiver has an output enable pin, it will disable the output section of the part when asserted. This will not disable the input section of the I/Os, so they cannot float when disabled.

8.4.2 Layout Example

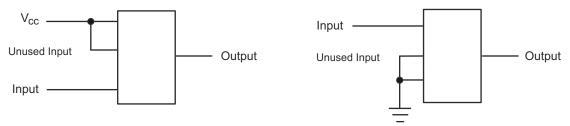


Figure 8-3. Layout Diagram

9 Device and Documentation Support

9.1 Documentation Support (Analog)

9.1.1 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 FOLDER	SAMPLE & BUY	TECHNICAL DOCUMENTS	TOOLS & SOFTWARE	SUPPORT & COMMUNITY	
SN74AHC1G32	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 *Subscribe to updates* 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.

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

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

Changes from Revision P (February 2017) to Revision Q (April 2024)

Page

Changes from Revision O (July 2014) to Revision P (February 2017)

Page

Added MAX values for T_A = 25°C in both Switching Characteristics tables.



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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30-Jun-2025

PACKAGING INFORMATION

Orderable part number	Status (1)	Material type	Package Pins	Package qty Carrier	RoHS (3)	Lead finish/ Ball material	MSL rating/ Peak reflow	Op temp (°C)	Part marking (6)
SN74AHC1G32DBVR	Active	Production	SOT-23 (DBV) 5	3000 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	(39CH, 3C3F, A323, A32G, A32J, A 32L, A32S)
SN74AHC1G32DBVR.A	SN74AHC1G32DBVR.A Active Production SOT-23 (DBV) 5 3000 LARGE T&R		3000 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	(39CH, 3C3F, A323, A32G, A32J, A 32L, A32S)	
SN74AHC1G32DBVRE4	Active	Production	SOT-23 (DBV) 5	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	A32G
SN74AHC1G32DBVRG4	Active	Production	SOT-23 (DBV) 5	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	A32G
SN74AHC1G32DBVRG4.A	Active	Production	SOT-23 (DBV) 5	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	A32G
SN74AHC1G32DBVT	Obsolete	Production	SOT-23 (DBV) 5	-	-	Call TI	Call TI	-40 to 125	(A323, A32G, A32J, A32S)
SN74AHC1G32DBVTG4	Obsolete	Production	SOT-23 (DBV) 5	-	-	Call TI	Call TI	-40 to 125	A32G
SN74AHC1G32DCK3	Last Time Buy	Production	SC70 (DCK) 5	3000 LARGE T&R	Yes	SNBI	Level-1-260C-UNLIM	-40 to 85	AGY
SN74AHC1G32DCK3.A	Last Time Buy	Production	SC70 (DCK) 5	3000 LARGE T&R	Yes	SNBI	Level-1-260C-UNLIM	-40 to 85	AGY
SN74AHC1G32DCKR	Active	Production	SC70 (DCK) 5	3000 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	(1RA, AG3, AGG, AG J, AGL, AGS)
SN74AHC1G32DCKR.A	Active	Production	SC70 (DCK) 5	3000 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	(1RA, AG3, AGG, AG J, AGL, AGS)
SN74AHC1G32DCKRE4	Active	Production	SC70 (DCK) 5	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	AG3
SN74AHC1G32DCKRG4	Active	Production	SC70 (DCK) 5	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	AG3
SN74AHC1G32DCKRG4.A	Active	Production	SC70 (DCK) 5	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	AG3
SN74AHC1G32DCKTE4	Active	Production	SC70 (DCK) 5	250 SMALL T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	AG3
SN74AHC1G32DCKTG4	Active	Production	SC70 (DCK) 5	250 SMALL T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	AG3
SN74AHC1G32DCKTG4.A	Active	Production	SC70 (DCK) 5	250 SMALL T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	AG3
SN74AHC1G32DRLR	Active	Production	SOT-5X3 (DRL) 5	4000 LARGE T&R	Yes	NIPDAU NIPDAUAG	Level-1-260C-UNLIM	-40 to 125	(AGB, AGS)
SN74AHC1G32DRLR.A	Active	Production	SOT-5X3 (DRL) 5	4000 LARGE T&R	Yes	NIPDAUAG	Level-1-260C-UNLIM	-40 to 125	(AGB, AGS)
SN74AHC1G32DRLRG4	Active	Production	SOT-5X3 (DRL) 5	4000 LARGE T&R	Yes	NIPDAUAG	Level-1-260C-UNLIM	-40 to 125	(AGB, AGS)

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

PACKAGE OPTION ADDENDUM

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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.

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.

Important Information and Disclaimer: The information provided on this page represents TI's knowledge and belief as of the date that it is provided. TI bases its knowledge and belief on information provided by third parties, and makes no representation or warranty as to the accuracy of such information. Efforts are underway to better integrate information from third parties. TI has taken and continues to take reasonable steps to provide representative and accurate information but may not have conducted destructive testing or chemical analysis on incoming materials and chemicals. TI and TI suppliers consider certain information to be proprietary, and thus CAS numbers and other limited information may not be available for release.

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.

OTHER QUALIFIED VERSIONS OF SN74AHC1G32:

Automotive: SN74AHC1G32-Q1

NOTE: Qualified Version Definitions:

Automotive - Q100 devices qualified for high-reliability automotive applications targeting zero defects



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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
SN74AHC1G32DBVR	SOT-23	DBV	5	3000	180.0	8.4	3.2	3.2	1.4	4.0	8.0	Q3
SN74AHC1G32DBVR	SOT-23	DBV	5	3000	180.0	8.4	3.2	3.2	1.4	4.0	8.0	Q3
SN74AHC1G32DBVRG4	SOT-23	DBV	5	3000	178.0	9.0	3.23	3.17	1.37	4.0	8.0	Q3
SN74AHC1G32DCKR	SC70	DCK	5	3000	180.0	8.4	2.3	2.5	1.2	4.0	8.0	Q3
SN74AHC1G32DCKRG4	SC70	DCK	5	3000	178.0	9.2	2.4	2.4	1.22	4.0	8.0	Q3
SN74AHC1G32DCKTG4	SC70	DCK	5	250	178.0	9.2	2.4	2.4	1.22	4.0	8.0	Q3
SN74AHC1G32DRLR	SOT-5X3	DRL	5	4000	180.0	8.4	1.98	1.78	0.69	4.0	8.0	Q3



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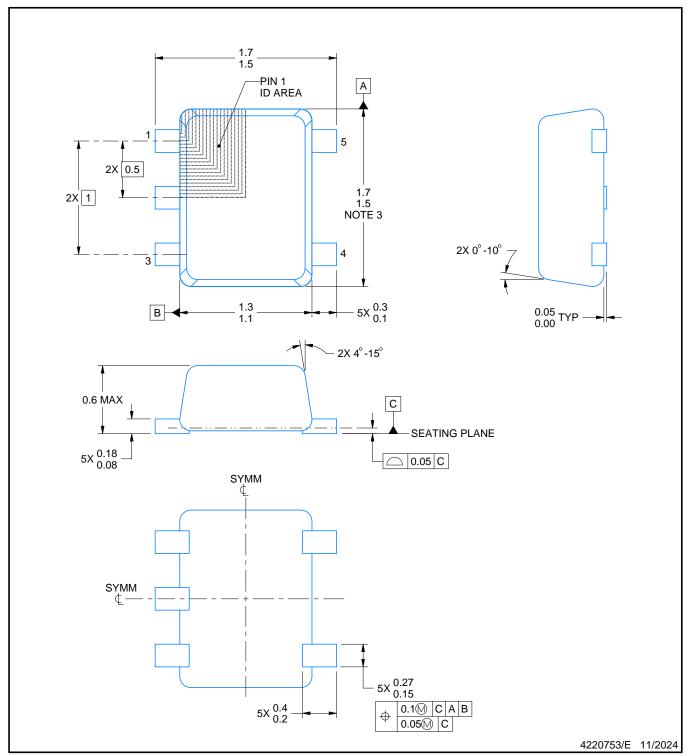


*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74AHC1G32DBVR	SOT-23	DBV	5	3000	210.0	185.0	35.0
SN74AHC1G32DBVR	SOT-23	DBV	5	3000	210.0	185.0	35.0
SN74AHC1G32DBVRG4	SOT-23	DBV	5	3000	180.0	180.0	18.0
SN74AHC1G32DCKR	SC70	DCK	5	3000	210.0	185.0	35.0
SN74AHC1G32DCKRG4	SC70	DCK	5	3000	180.0	180.0	18.0
SN74AHC1G32DCKTG4	SC70	DCK	5	250	180.0	180.0	18.0
SN74AHC1G32DRLR	SOT-5X3	DRL	5	4000	202.0	201.0	28.0



PLASTIC SMALL OUTLINE

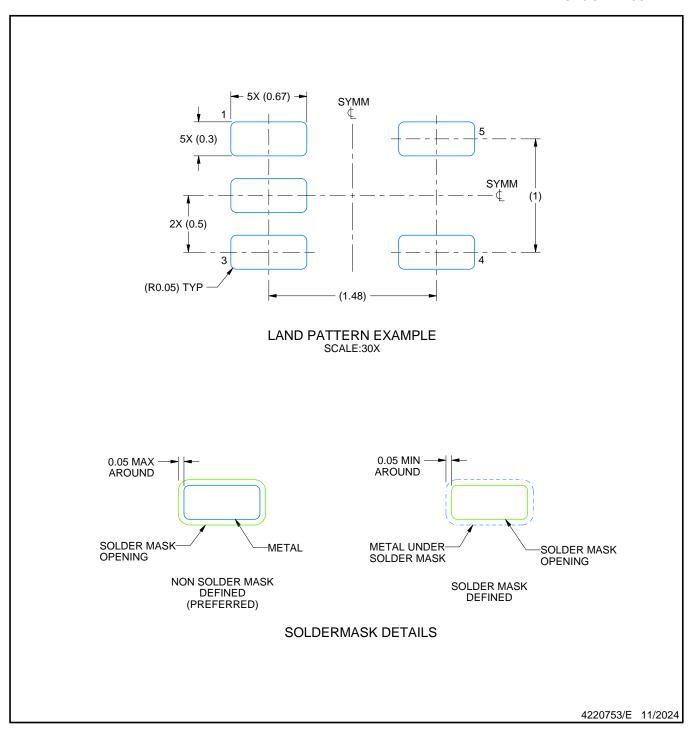


NOTES:

- 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

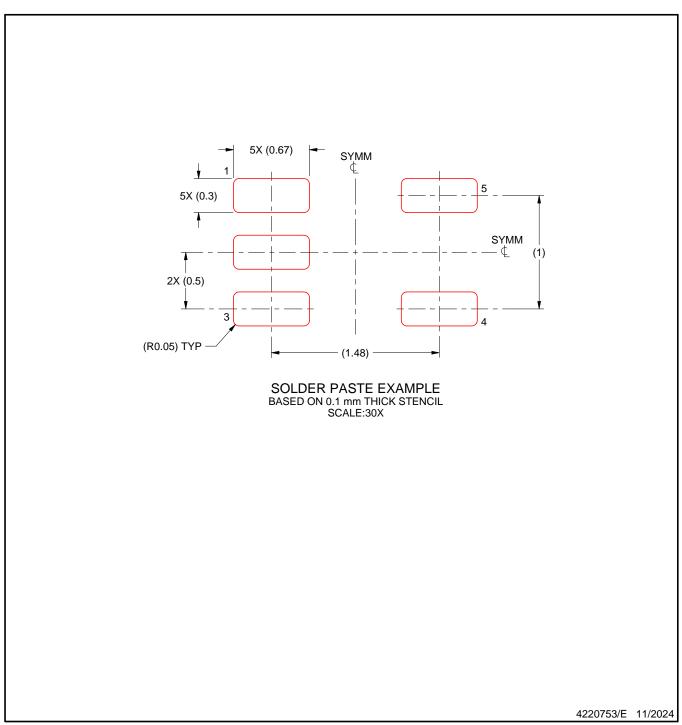


NOTES: (continued)

- 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:

- 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.
- 6. Body dimensions do not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0.25mm per side





NOTES: (continued)

7. Publication IPC-7351 may have alternate designs.8. Solder mask tolerances between and around signal pads can vary based on board fabrication site.





NOTES: (continued)

- 9. Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate design recommendations.
- 10. 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-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.
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