

Single 3-Input Positive AND-OR Gate

Check for Samples: SN74LVC1G0832

FEATURES

- Available in the Texas Instruments NanoFree™ **Package**
- Supports 5-V V_{CC} Operation
- Inputs Accept Voltages to 5.5 V
- Provides Down Translation to V_{CC}
- Max t_{pd} of 5 ns at 3.3 V
- Low Power Consumption, 10-μA Max I_{CC}
- ±24-mA Output Drive at 3.3 V
- Input Hysteresis Allows Slow Input **Transition and Better Switching Noise** Immunity at the Input $(V_{hvs} = 250 \text{ mV Typ } @ 3.3 \text{ V})$
- Can Be Used in Three Combinations:
 - AND-OR Gate
 - AND Gate
 - OR Gate
- I_{off} Supports Live Insertion, Partial-Power-Down Mode, and Back-Drive Protection
- Latch-Up Performance Exceeds 100 mA Per JESD 78, Class II
- **ESD Protection Exceeds JESD 22**
 - 2000-V Human-Body Model (A114-A)
 - 200-V Machine Model (A115-A)
 - 1000-V Charged-Device Model (C101)

DESCRIPTION

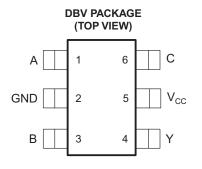
This device is designed for 1.65-V to 5.5-V V_{CC} operation.

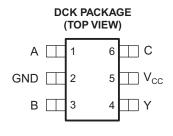
The SN74LVC1G0832 device is a single 3-input positive AND-OR gate. It performs the Boolean function $Y = (A \cdot B) + C$ in positive logic.

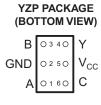
By tying one input to GND or V_{CC} , SN74LVC1G0832 device offers two more functions. When C is tied to GND, this device performs as a 2-input AND gate (Y = A • B). When A is tied to V_{CC}, the device works as a 2-input OR gate (Y = B + C). This device also works as a 2-input OR gate when B is tied to V_{CC} (Y = A + C).

NanoFree™ package technology is a major breakthrough in IC packaging concepts, using the die as the package.

This device is fully specified for partial-power-down applications using I_{off} . The I_{off} circuitry disables the outputs, preventing damaging current backflow through the device when it is powered down.







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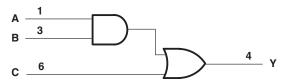
These devices have limited built-in ESD protection. The leads should be shorted together or the device placed in conductive foam during storage or handling to prevent electrostatic damage to the MOS gates.

Function Table⁽¹⁾

I	NPUTS		OUTPUT
Α	В	С	Y
Х	Χ	Н	Н
Н	Н	Χ	Н
Х	L	L	L
L	Χ	L	L

(1) X = Valid H or L

Logic Diagram (Positive Logic)



Function Selection Table

LOGIC FUNCTION	FIGURE
2-Input AND Gate	Figure 1
2-Input OR Gate	Figure 2
Y = (A • B) + C	Figure 3

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Logic Configurations

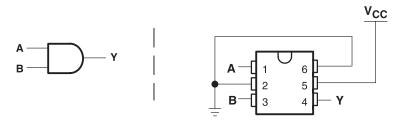


Figure 1. 2-Input AND Gate

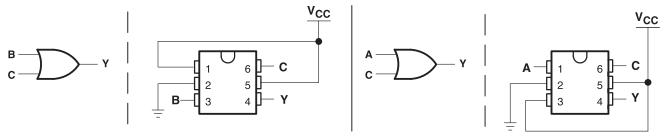


Figure 2. 2-Input OR Gate



Figure 3. Y = (A • B) + C



Absolute Maximum Ratings(1)

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

			MIN	MAX	UNIT
V _{CC}	Supply voltage range		-0.5	6.5	V
VI	Input voltage range ⁽²⁾			6.5	V
Vo	Voltage range applied to Y output in the high-impedance or power-off state ⁽²⁾			6.5	V
Vo	Voltage range applied to any output in the h	-0.5	V _{CC} + 0.5	V	
I _{IK}	Input clamp current	V ₁ < 0		-50	mA
I _{OK}	Output clamp current	V _O < 0		-50	mA
Io	Continuous output current			±50	mA
	Continuous current through V _{CC} or GND			±100	mA
		DBV package		215	
θ_{JA}	Package thermal impedance (4)	DCK package		259	°C/W
		YZP package		123	
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.

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

⁽³⁾ The value of V_{CC} is provided in the recommended operating conditions table.

⁽⁴⁾ The package thermal impedance is calculated in accordance with JESD 51-7.



Recommended Operating Conditions⁽¹⁾

			MIN	MAX	UNIT
.,	Complement	Operating	1.65	5.5	
V_{CC}	Supply voltage	Data retention only	1.5		V
		V _{CC} = 1.65 V to 1.95 V	0.65 × V _{CC}	5.5	
.,	LPak Java Canada ashana	V _{CC} = 2.3 V to 2.7 V	1.7	5.5	V
V_{IH}	High-level input voltage	V _{CC} = 3 V to 3.6 V	2	5.5	V
		V _{CC} = 4.5 V to 5.5 V	0.7 × V _{CC}	5.5	
		V _{CC} = 1.65 V to 1.95 V	0	$0.35 \times V_{CC}$	
\ /	Low lovel input veltage	V_{CC} = 2.3 V to 2.7 V	0		V
V_{IL}	Low-level input voltage	V _{CC} = 3 V to 3.6 V	0		V
		V _{CC} = 4.5 V to 5.5 V	0		
Vo	Output voltage		0	V_{CC}	V
	V _{CC} = 1.65 V		-4		
		V _{CC} = 2.3 V		-8	
I_{OH}	High-level output current	V _{CC} = 3 V		-16	mA
		vcc = 3 v		-24	
		V _{CC} = 4.5 V		-32	
		V _{CC} = 1.65 V		4	
		V _{CC} = 2.3 V		8	
I_{OL}	Low-level output current	V _{CC} = 3 V		16	mA
		VCC = 3 V		24	
		V _{CC} = 4.5 V		32	
		$V_{CC} = 1.8 \text{ V} \pm 0.15 \text{ V}, 2.5 \text{ V} \pm 0.2 \text{ V}$		20	
Δt/Δv	Input transition rise or fall rate	V _{CC} = 3.3 V ± 0.3 V		10	ns/V
		V _{CC} = 5 V ± 0.5 V		5	
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.



Electrical Characteristics

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

D.4.		TEOT 00	NOTIONS		-40°0	C to 85°C		–40°C	to 125°C									
PAI	RAMETER	TEST CO	NDITIONS	V _{cc}	MIN	TYP ⁽¹⁾	MAX	MIN	TYP ⁽¹⁾	MAX	UNIT							
		$I_{OH} = -100 \ \mu A$		1.65 V to 5.5 V	V _{CC} - 0.1			V _{CC} - 0.1										
		$I_{OH} = -4 \text{ mA}$		1.65 V	1.2			1.2										
		$I_{OH} = -8 \text{ mA}$	V _I = 5.5 V or	2.3 V	1.9			1.9			V							
V _{OH}		$I_{OH} = -16 \text{ mA}$	GND	3 V	2.4			2.4			V							
		$I_{OH} = -24 \text{ mA}$		3 V	2.3			2.3										
		$I_{OH} = -32 \text{ mA}$		4.5 V	3.8			3.8										
		I _{OL} = 100 μA		1.65 V to 5.5 V			0.1			0.1								
	I _{OL} = 4 mA		1.65 V				0.45			0.45								
		$I_{OL} = 8 \text{ mA}$	V _I = 5.5 V or	2.3 V			0.3			0.3	V							
V_{OL}		I _{OL} = 16 mA	GND	3 V			0.4			0.4	V							
		$I_{OL} = 24 \text{ mA}$								İ	3 V			0.55			0.55	
		I _{OL} = 32 mA		4.5 V			0.55			0.6								
I _I	A, B, or C inputs	V _I = 5.5 V or GN	ID	0 to 5.5 V			±5			±5	μA							
I _{off}		V_I or $V_O = 5.5 \text{ V}$		0			±10			±10	μA							
I _{CC}		V _I = 5.5 V or GN	ID, I _O = 0	1.65 V to 5.5 V			10			10	μA							
ΔI _{CC}		One input at V _{Ct} Other inputs at V		3 V to 5.5 V			500			500	μA							
Ci		V _I = V _{CC} or GNE)	3.3 V		7					pF							

⁽¹⁾ All typical values are at V_{CC} = 3.3 V, T_A = 25°C.



Switching Characteristics

over recommended operating free-air temperature range, C_L = 15 pF (unless otherwise noted) (see Figure 4)

			SN74LVC1G0832 -40°C to 85°C								
PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{CC} = 1.8 V ± 0.15 V		V _{CC} = 2.5 V ± 0.2 V		V _{CC} = 3.3 V ± 0.3 V		V _{CC} = 5 V ± 0.5 V		UNIT
			MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
t _{pd}	A, B, or C	Υ	3.7	14	2.4	7	1.7	5	1.2	3.4	ns

Switching Characteristics

over recommended operating free-air temperature range, C_L = 30 pF or 50 pF (unless otherwise noted) (see Figure 5)

	, ,	37.2	SN74LVC1G0832 -40°C to 85°C								-
PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{CC} = 1.8 V V _{CC} = 2.5 V ± 0.15 V ± 0.2 V		V _{CC} = 3.3 V ± 0.3 V		V _{CC} = 5 V ± 0.5 V		UNIT		
			MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
t _{pd}	A, B, or C	Υ	2.5	17.5	1.8	7.6	1.8	5.9	1.3	4	ns

Switching Characteristics

over recommended operating free-air temperature range, $C_L = 30 \text{ pF}$ or 50 pF (unless otherwise noted) (see Figure 5)

			SN74LVC1G0832 -40°C to 125°C								
PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{CC} = 1.8 V ± 0.15 V		V _{CC} = 2.5 V ± 0.2 V		V _{CC} = 3.3 V ± 0.3 V		V _{CC} = 5 V ± 0.5 V		UNIT
			MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
t _{pd}	A, B, or C	Υ	2.5	17.5	1.8	7.6	1.8	5.9	1.3	4.5	ns

Operating Characteristics

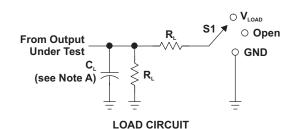
 $T_A = 25$ °C

	PARAMETER	TEST	V _{CC} = 1.8 V	$V_{CC} = 2.5 V$	$V_{CC} = 3.3 \text{ V}$	$V_{CC} = 5 V$	UNIT	
PARAMETER		CONDITIONS	TYP	TYP TYP		TYP	UNII	
C_{pd}	Power dissipation capacitance	f = 10 MHz	15	15	16	18	pF	

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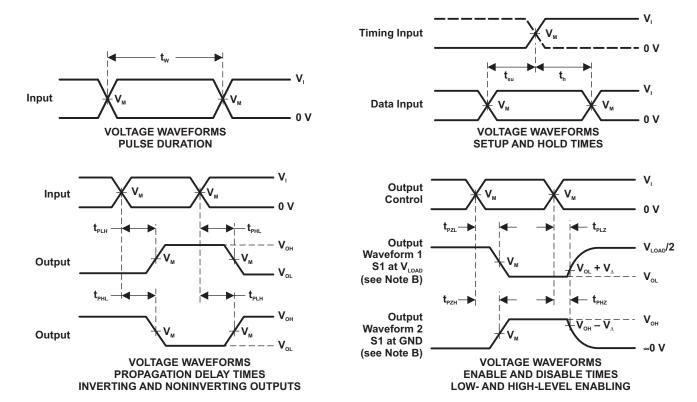


Parameter Measurement Information



TEST	S1			
t _{PLH} /t _{PHL}	Open			
t _{PLZ} /t _{PZL}	$V_{\scriptscriptstyle LOAD}$			
t _{PHZ} /t _{PZH}	GND			

.,	INI	PUTS		.,			.,
V _{cc}	V,	t,/t,	V _M	V _{LOAD}	C ^r	R _L	V _A
1.8 V ± 0.15 V	V _{cc}	≤2 ns	V _{cc} /2	2 × V _{cc}	15 pF	1 M Ω	0.15 V
2.5 V ± 0.2 V	V _{cc}	≤2 ns	V _{cc} /2	2 × V _{cc}	15 pF	1 M Ω	0.15 V
3.3 V ± 0.3 V	3 V	≤2.5 ns	1.5 V	6 V	15 pF	1 M Ω	0.3 V
5 V ± 0.5 V	V _{cc}	≤2.5 ns	V _{cc} /2	2 × V _{cc}	15 pF	1 M Ω	0.3 V



NOTES: A. C_L includes probe and jig capacitance.

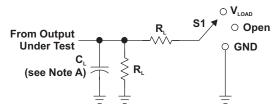
- B. Waveform 1 is for an output with internal conditions such that the output is low, except when disabled by the output control. Waveform 2 is for an output with internal conditions such that the output is high, except when disabled by the output control.
- C. All input pulses are supplied by generators having the following characteristics: PRR \leq 10 MHz, Z_{\circ} = 50 Ω .
- D. The outputs are measured one at a time, with one transition per measurement.
- E. t_{PLZ} and t_{PHZ} are the same as t_{dis} .
- F. t_{PZL} and t_{PZH} are the same as t_{en} .
- G. t_{PLH} and t_{PHL} are the same as t_{pd} .
- H. All parameters and waveforms are not applicable to all devices.

Figure 4. Load Circuit and Voltage Waveforms

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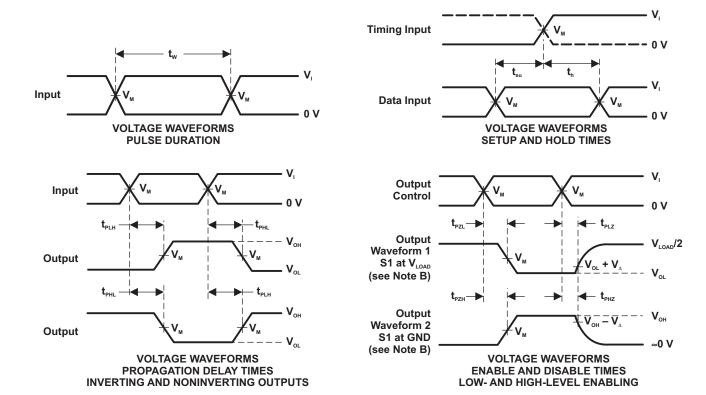
Parameter Measurement Information (continued)



TEST	S1
t _{PLH} /t _{PHL}	Open
$t_{_{\mathrm{PLZ}}}/t_{_{\mathrm{PZL}}}$	V _{LOAD}
t _{PHZ} /t _{PZH}	GND

LOAD CIRCUIT

.,	INI	PUTS	V	V	_		V	
V _{cc}	V,	t,/t,	V _M	V _{LOAD}	C _L	$R_{\scriptscriptstyle L}$	V _A	
1.8 V ± 0.15 V	V _{cc}	≤2 ns	V _{cc} /2	2 × V _{cc}	30 pF	1 k Ω	0.15 V	
2.5 V ± 0.2 V	V _{cc}	≤2 ns	V _{cc} /2	2 × V _{cc}	30 pF	500 Ω	0.15 V	
3.3 V ± 0.3 V	3 V	≤2.5 ns	1.5 V	6 V	50 pF	500 Ω	0.3 V	
5 V ± 0.5 V	V _{cc}	≤2.5 ns	V _{cc} /2	2 × V _{cc}	50 pF	500 Ω	0.3 V	



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 10 MHz, Z_0 = 50 Ω .
- D. The outputs are measured one at a time, with one transition per measurement.
- E. t_{PLZ} and t_{PHZ} are the same as t_{dis} .
- F. t_{PZL} and t_{PZH} are the same as t_{en} .
- G. t_{PLH} and t_{PHL} are the same as t_{pd} .
- H. All parameters and waveforms are not applicable to all devices.

Figure 5. Load Circuit and Voltage Waveforms

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SCES606D – SEPTEMBER 2004 – REVISED DECEMBER 2013



REVISION HISTORY

CI	hanges from Revision C (January 2007) to Revision D	Page
•	Updated document to new TI data sheet format.	1
•	Updated Features.	1
•	Added ESD warning.	2
•	Updated operating temperature range.	5

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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)		
74LVC1G0832DCKRG4.B	Active	Production	SC70 (DCK) 6	3000 LARGE T&R	-	Call TI	Call TI	-40 to 125	
SN74LVC1G0832DBVR	Active	Production	SOT-23 (DBV) 6	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	CDCR
SN74LVC1G0832DBVR.B	Active	Production	SOT-23 (DBV) 6	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	CDCR
SN74LVC1G0832DBVT	Active	Production	SOT-23 (DBV) 6	250 SMALL T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	CDCR
SN74LVC1G0832DBVT.B	Active	Production	SOT-23 (DBV) 6	250 SMALL T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	CDCR
SN74LVC1G0832DCKR	Active	Production	SC70 (DCK) 6	3000 LARGE T&R	Yes	NIPDAU SN	Level-1-260C-UNLIM	-40 to 125	(DCJ, DCR)
SN74LVC1G0832DCKR.B	Active	Production	SC70 (DCK) 6	3000 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	(DCJ, DCR)
SN74LVC1G0832DCKT	Active	Production	SC70 (DCK) 6	250 SMALL T&R	Yes	NIPDAU SN	Level-1-260C-UNLIM	-40 to 125	(DCJ, DCR)
SN74LVC1G0832DCKT.B	Active	Production	SC70 (DCK) 6	250 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	(DCJ, DCR)
SN74LVC1G0832YZPR	Active	Production	DSBGA (YZP) 6	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	DCN
SN74LVC1G0832YZPR.B	Active	Production	DSBGA (YZP) 6	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	DCN

⁽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.

⁽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 OPTION ADDENDUM

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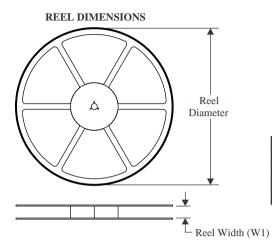
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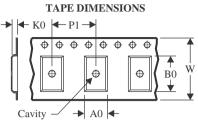
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PACKAGE MATERIALS INFORMATION

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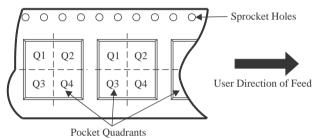
TAPE AND REEL INFORMATION





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
SN74LVC1G0832DBVR	SOT-23	DBV	6	3000	180.0	8.4	3.23	3.17	1.37	4.0	8.0	Q3
SN74LVC1G0832DBVT	SOT-23	DBV	6	250	180.0	8.4	3.23	3.17	1.37	4.0	8.0	Q3
SN74LVC1G0832DCKR	SC70	DCK	6	3000	178.0	9.0	2.4	2.5	1.2	4.0	8.0	Q3
SN74LVC1G0832DCKR	SC70	DCK	6	3000	178.0	8.4	2.25	2.45	1.2	4.0	8.0	Q3
SN74LVC1G0832DCKT	SC70	DCK	6	250	178.0	9.0	2.4	2.5	1.2	4.0	8.0	Q3
SN74LVC1G0832DCKT	SC70	DCK	6	250	180.0	8.4	2.41	2.41	1.2	4.0	8.0	Q3
SN74LVC1G0832YZPR	DSBGA	YZP	6	3000	178.0	9.2	1.02	1.52	0.63	4.0	8.0	Q1



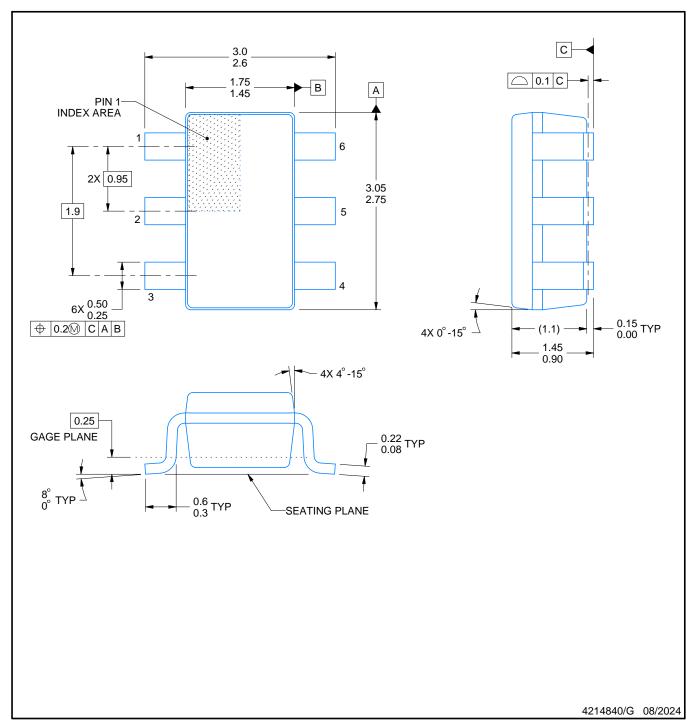
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*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74LVC1G0832DBVR	SOT-23	DBV	6	3000	202.0	201.0	28.0
SN74LVC1G0832DBVT	SOT-23	DBV	6	250	202.0	201.0	28.0
SN74LVC1G0832DCKR	SC70	DCK	6	3000	180.0	180.0	18.0
SN74LVC1G0832DCKR	SC70	DCK	6	3000	208.0	191.0	35.0
SN74LVC1G0832DCKT	SC70	DCK	6	250	180.0	180.0	18.0
SN74LVC1G0832DCKT	SC70	DCK	6	250	202.0	201.0	28.0
SN74LVC1G0832YZPR	DSBGA	YZP	6	3000	220.0	220.0	35.0





NOTES:

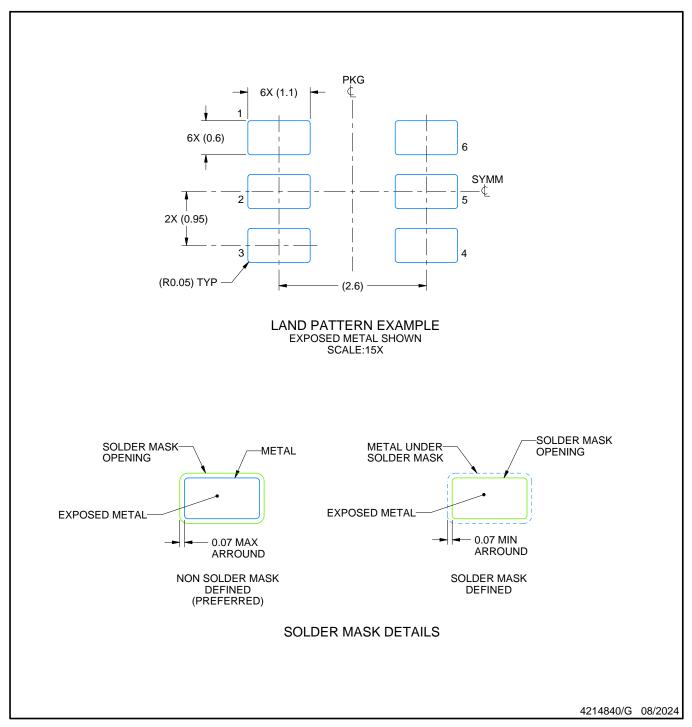
- 1. All linear dimensions are in millimeters. Any dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M.

 2. This drawing is subject to change without notice.

 3. Body dimensions do not include mold flash or protrusion. Mold flash and protrusion shall not exceed 0.25 per side.

- 4. Leads 1,2,3 may be wider than leads 4,5,6 for package orientation.
- 5. Refernce JEDEC MO-178.



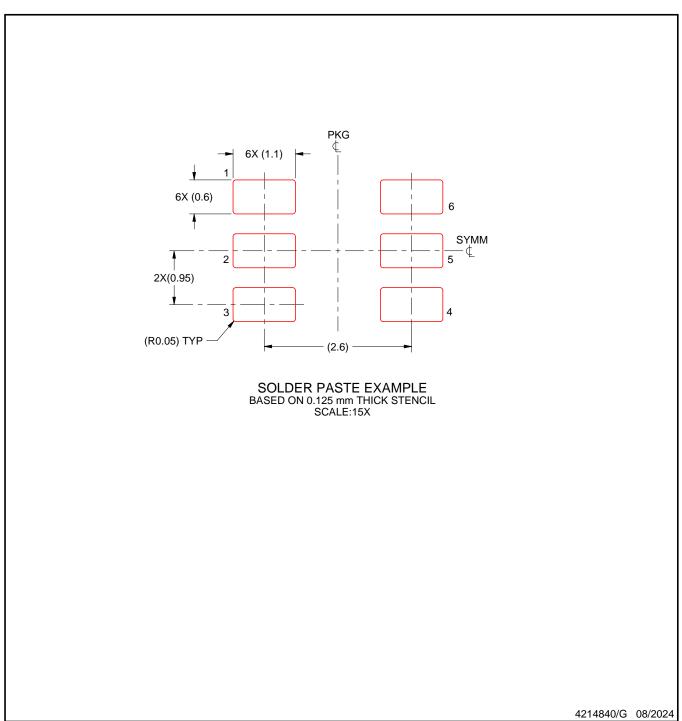


NOTES: (continued)

6. Publication IPC-7351 may have alternate designs.

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





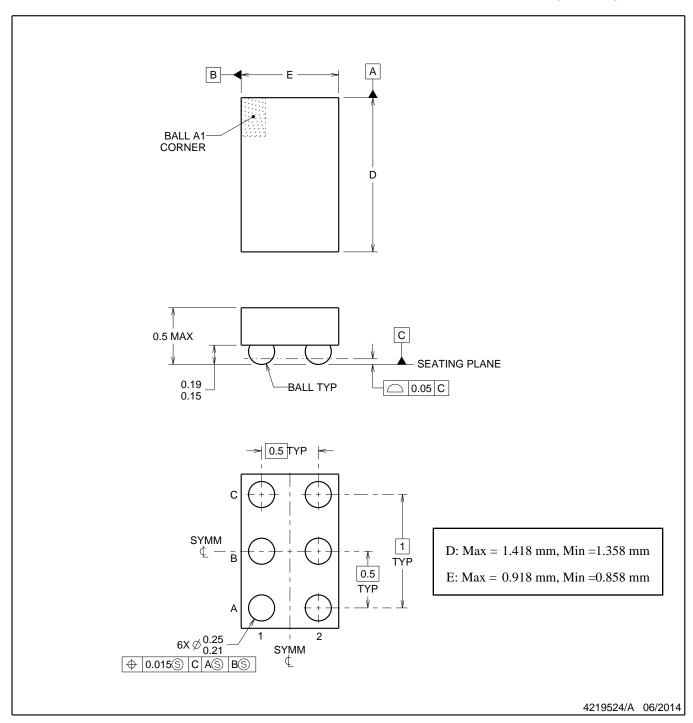
NOTES: (continued)

- 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.





DIE SIZE BALL GRID ARRAY



NOTES:

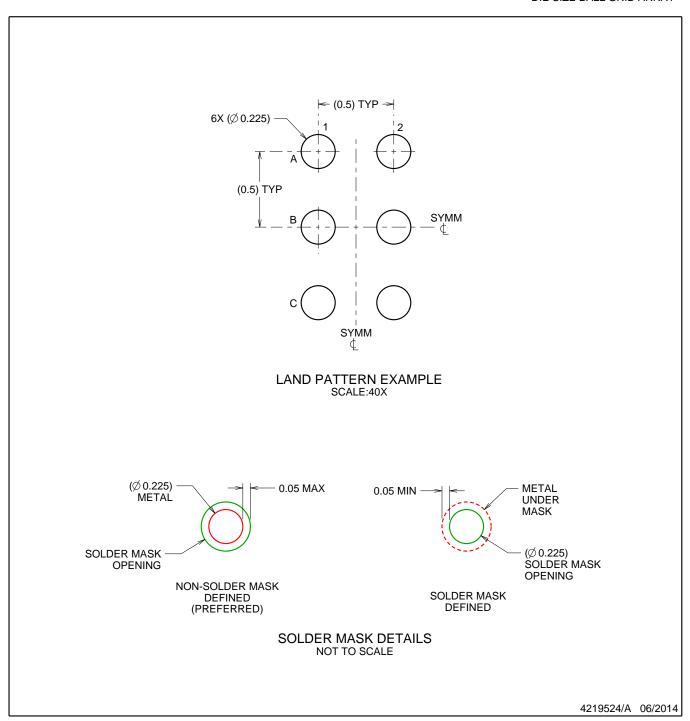
NanoFree Is a trademark of Texas Instruments.

- 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. NanoFree[™] package configuration.



DIE SIZE BALL GRID ARRAY

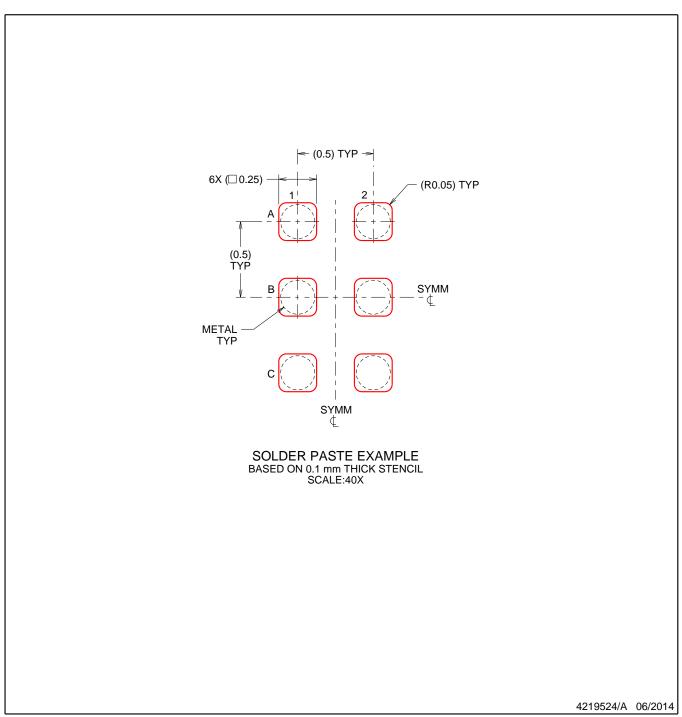


NOTES: (continued)

Final dimensions may vary due to manufacturing tolerance considerations and also routing constraints.
 For more information, see Texas Instruments literature number SBVA017 (www.ti.com/lit/sbva017).



DIE SIZE BALL GRID ARRAY

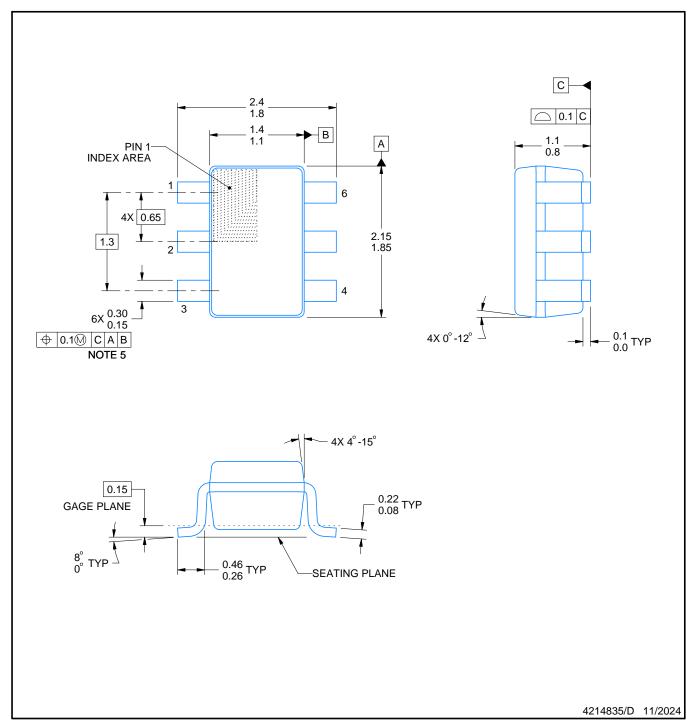


NOTES: (continued)

5. Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release.







NOTES:

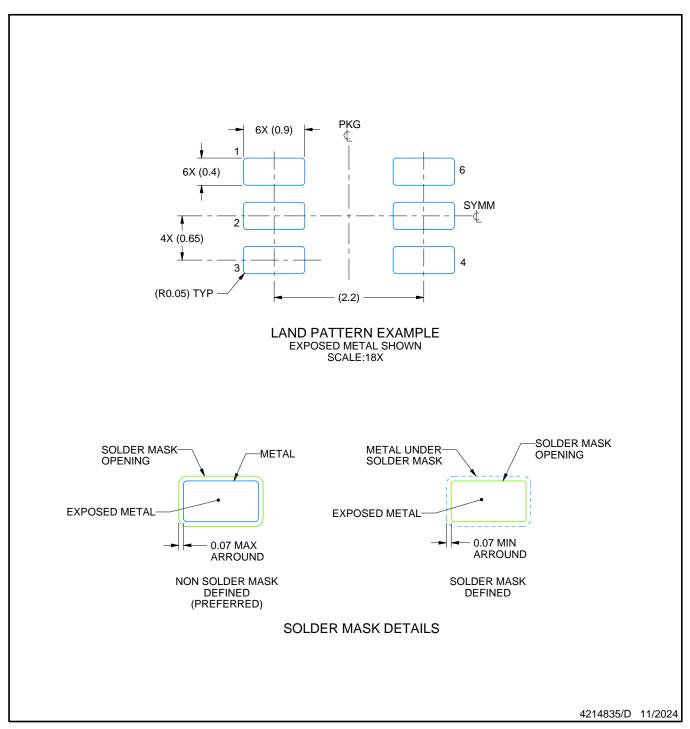
- 1. All linear dimensions are in millimeters. Any dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M.

 2. This drawing is subject to change without notice.

 3. Body dimensions do not include mold flash or protrusion. Mold flash and protrusion shall not exceed 0.15 per side.

 4. Falls within JEDEC MO-203 variation AB.



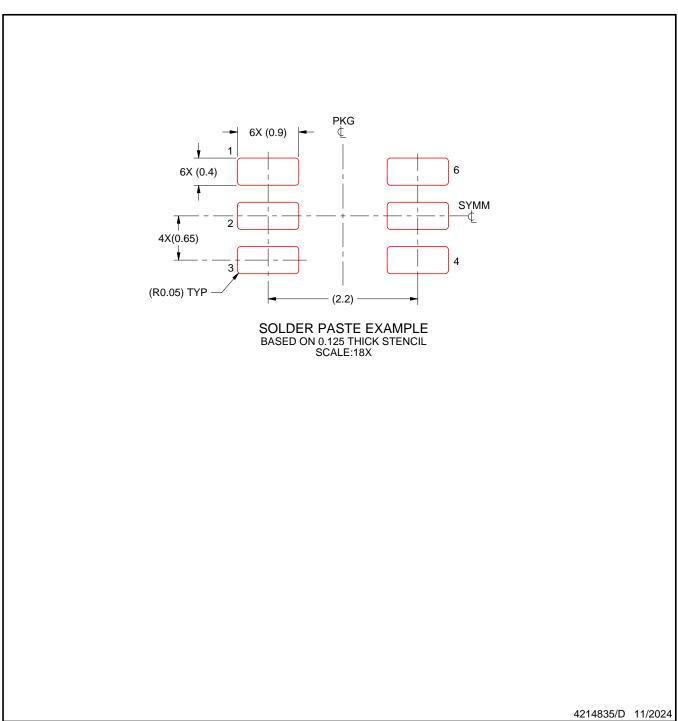


NOTES: (continued)

5. Publication IPC-7351 may have alternate designs.

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





NOTES: (continued)

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



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