













SCES374P - SEPTEMBER 2001 - REVISED JUNE 2017

SN74AUC1G08 Single 2-Input Positive-AND Gate

Features

- 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)
- Available in the Texas Instruments NanoFree™ Package
- Optimized for 1.8-V Operation and Is 3.6-V I/O Tolerant to Support Mixed-Mode Signal Operation
- Ioff Supports Partial-Power-Down Mode and Back **Drive Protection**
- Sub-1-V Operable
- Max t_{pd} of 2.4 ns at 1.8 V
- Low Power Consumption, 10-µA Max I_{CC}
- ±8-mA Output Drive at 1.8 V

Applications

- **AV Receiver**
- Audio Dock: Portable
- Blu-Ray Player and Home Theater
- Embedded PC
- MP3 Player/Recorder (Portable Audio)
- Personal Digital Assistant (PDA)
- Power: Telecom/Server AC/DC Supply: Single Controller: Analog and Digital
- Solid State Drive (SSD): Client and Enterprise
- TV: LCD/Digital and High-Definition (HDTV)
- Tablet: Enterprise
- Video Analytics: Server
- Wireless Headset, Keyboard, and Mouse

3 Description

This single 2-input positive-AND gate is operational at 0.8-V to 2.7-V V_{CC}, but is designed specifically for 1.65-V to 1.95-V V_{CC} operation.

The SN74AUC1G08 device performs the Boolean function $Y = A \bullet B$ or $Y = \overline{A} + \overline{B}$ in positive logic.

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 Ioff. The Ioff circuitry disables the outputs, preventing damaging current backflow through the device when it is powered down.

Device Information⁽¹⁾

PART NUMBER	PACKAGE	BODY SIZE (NOM)
SN74AUC1G08DBV	SOT-23 (5)	2.90 mm × 1.60 mm
SN74AUC1G08DCK	SC70 (5)	2.00 mm × 1.25 mm
SN74AUC1G08DRL	SOT-5X3 (5)	1.60 mm × 1.20 mm
SN74AUC1G08YZP	DSBGA (5)	1.75 mm × 1.25 mm

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

Logic Diagram (Positive Logic)





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4 Revision History

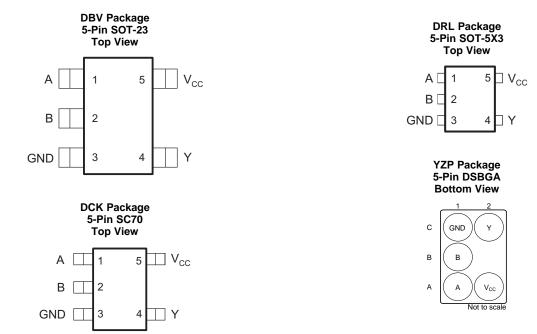
NOTE: Page numbers for previous revisions may differ from page numbers in the current version.

CI	hanges from Revision O (April 2007) to Revision P	Page
•	Deleted DRY Package throughout data sheet	1
•	Added Applications, Device Information table, ESD Ratings table, Thermal Information table, Detailed Description, Device and Documentation Support, and Mechanical, Packaging, and Orderable Information	1
•	Deleted Ordering Information, see Mechanical, Packaging, and Orderable Information	1

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5 Pin Configuration and Functions



Pin Functions

	PIN						
NAME	DBV, DCK, DRL	YZP	I/O	DESCRIPTION			
Α	1	A1	I	A logic input			
В	2	B1	I	B logic input			
GND	3	C1	_	Ground			
Υ	4	C2	0	Y AND Logic Output			
V _{CC}	5	A2	_	Positive Supply			

6 Specifications

6.1 Absolute Maximum Ratings

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

			MIN	MAX	UNIT
V_{CC}	Supply voltage		-0.5	3.6	V
V_{I}	Input voltage ⁽²⁾	put voltage ⁽²⁾			
Vo	Voltage range applied to any output in the high-impeda	-0.5	3.6	V	
Vo	Output voltage (2)	-0.5	V _{CC} + 0.5	V	
I _{IK}	Input clamp current	V _I < 0		-50	mA
I _{OK}	Output clamp current	V _O < 0		- 50	mA
Io	Continuous output current	,		±20	mA
	Continuous current through V _{CC} or GND		±100	mA	
T _{stg}	Storage temperature		-65	150	°C

⁽¹⁾ Stresses beyond those listed under Absolute Maximum Ratings may cause permanent damage to the device. These are stress ratings only, which do not imply functional operation of the device at these or any other conditions beyond those indicated under Recommended Operating Conditions. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

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



6.2 ESD Ratings

			VALUE	UNIT
		Human-body model (HBM), per ANSI/ESDA/JEDEC JS-001 ⁽¹⁾	2000	
V _(ESD)	Electrostatic discharge	Charged-device model (CDM), per JEDEC specification JESD22-C101 (2)	1000	V
		Machine Model (A115-A)	200	

- (1) JEDEC document JEP155 states that 500-V HBM allows safe manufacturing with a standard ESD control process.
- (2) JEDEC document JEP157 states that 250-V CDM allows safe manufacturing with a standard ESD control process.

6.3 Recommended Operating Conditions

See (1)

			MIN	MAX	UNIT	
V _{CC}	Supply voltage		0.8	2.7	V	
.,	High lovel input valtage	V _{CC} = 0.8 V to 1.95 V	0.65 × V _{CC}		V	
V_{IH}	High-level input voltage	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	1.7		V	
17	Low level input valtage	$V_{CC} = 0.8 \text{ V to } 1.95 \text{ V}$		$0.35 \times V_{CC}$	V	
VIL	Low-level input voltage	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		0.7	V	
V_{I}	Input voltage		0	3.6	V	
Vo	Output voltage		0	V_{CC}	V	
		V _{CC} = 0.8 V		-0.7		
		V _{CC} = 1.1 V		-3		
I_{OH}	High-level output current	V _{CC} = 1.4 V		- 5	mA	
		V _{CC} = 1.65 V		-8		
		V _{CC} = 2.3 V		-9		
V _O		V _{CC} = 0.8 V		0.7		
		V _{CC} = 1.1 V		3		
I_{OL}	Low-level output current	V _{CC} = 1.4 V		5	mA	
		V _{CC} = 1.65 V		8		
		V _{CC} = 2.3 V		9		
A4/A	lament translation via a su fall sate	V _{CC} = 0.8 V to 1.95 V		20	//	
ΔΨΔν	Input transition rise or fall rate	V _{CC} = 2.3 V to 2.7 V		10	ns/V	
T _A	Operating free-air temperature	·	-40	85	°C	

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.

6.4 Thermal Information

			SN74AU	C1G08		
	THERMAL METRIC ⁽¹⁾	DBV (SOT-23)	DCK (SC70)	DRL (SOT- 5X3)	YZP (DSBGA)	UNIT
		5 PINS	5 PINS	5 PINS	5 PINS	
$R_{\theta JA}$	Junction-to-ambient thermal resistance	206	252	142	132	°C/W

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



6.5 Electrical Characteristics

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

PARAM	METER	TEST CON	IDITIONS	V _{cc}	MIN	TYP ⁽¹⁾	MAX	UNIT		
		$I_{OH} = -100 \ \mu A$		0.8 V to 2.7 V	$V_{CC} - 0.1$					
		$I_{OH} = -0.7 \text{ mA}$		V 8.0		0.55				
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		$I_{OH} = -3 \text{ mA}$		1.1 V	0.8			V		
V _{OH}		$I_{OH} = -5 \text{ mA}$		1.4 V	1			V		
		$I_{OH} = -8 \text{ mA}$		1.65 V	1.2					
		$I_{OH} = -9 \text{ mA}$		2.3 V	1.8					
		$I_{OL} = 100 \mu A$		0.8 V to 2.7 V			0.2	0.2		
		I _{OL} = 0.7 mA		0.8 V		0.25				
V		I _{OL} = 3 mA		1.1 V			0.3	V		
V _{OL}		I _{OL} = 5 mA		1.4 V			0.4	V		
		$I_{OL} = 8 \text{ mA}$		1.65 V			0.45			
		$I_{OL} = 9 \text{ mA}$		2.3 V			0.6			
I _I A	or B input	$V_I = V_{CC}$ or GND		0 to 2.7 V			±5	μΑ		
I _{off}		V_I or $V_O = 2.7 V$		0			±10	μΑ		
I _{CC}		$V_I = V_{CC}$ or GND,	I _O = 0	0.8 V to 2.7 V			10	μΑ		
C _I		$V_I = V_{CC}$ or GND		2.5 V		3		рF		

⁽¹⁾ All typical values are at $T_A = 25$ °C.

6.6 Switching Characteristics: $C_L = 15 pF$

over recommended operating free-air temperature range, C_L = 15 pF (unless otherwise noted) (see Figure 1)

PARAMETER	FROM	TO	V _{CC} = 0.8 V	= 0.8 V $\begin{vmatrix} V_{CC} = 1.2 \text{ V} \\ \pm 0.1 \text{ V} \end{vmatrix}$ $\begin{vmatrix} V_{CC} = 1.5 \text{ V} \\ \pm 0.1 \text{ V} \end{vmatrix}$			V _{CC} = 1.8 V ± 0.15 V			V _{CC} = 2.5 V ± 0.2 V		UNIT	
	(INPUT)	(INPUT) (OUTPUT)	TYP	MIN	MAX	MIN	MAX	MIN	TYP	MAX	MIN	MAX	
t _{pd}	A or B	Υ	4.7	0.9	3.3	0.6	2.3	0.4	1.1	1.7	0.2	1.6	ns

6.7 Switching Characteristics: $C_L = 30 pF$

over recommended operating free-air temperature range, $C_L = 30 \text{ pF}$ (unless otherwise noted) (see Figure 1)

PARAMETER	FROM	TO (OUTPUT)	V _{CC} = 1.8 V ± 0.15 V			V _{CC} = 2.5 ± 0.2 V	UNIT	
	(INPUT)		MIN	TYP	MAX	MIN	MAX	
t _{pd}	A or B	Y	0.7	1.3	2.4	0.5	2	ns

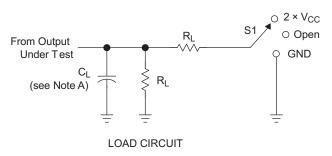
6.8 Operating Characteristics

 $T_A = 25^{\circ}C$

PARAMETER		TEST CONDITIONS	V _{CC} = 0.8 V TYP	V _{CC} = 1.2 V TYP	V _{CC} = 1.5 V TYP	V _{CC} = 1.8 V TYP	V _{CC} = 2.5 V TYP	UNIT
C _{pd}	Power dissipation capacitance	f = 10 MHz	15	15	15	15	19	pF

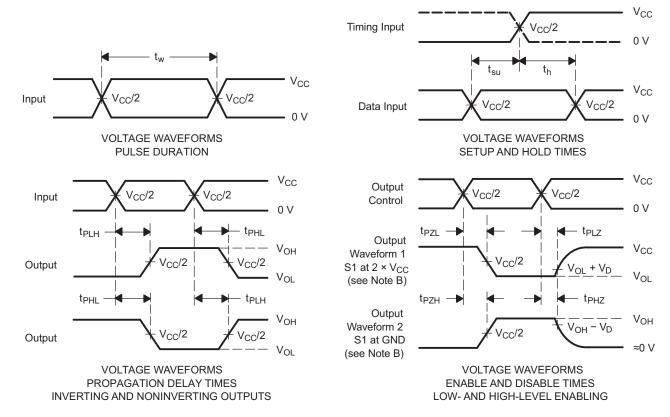


7 Parameter Measurement Information



TEST	S1
t _{PLH} /t _{PHL}	Open
t _{PLZ} /t _{PZL}	2 × V _{CC}
t _{PHZ} /t _{PZH}	GND

V _{CC}	C _L	R _L	V_D
0.8 V	15 pF	2 kΩ	0.1 V
1.2 V ± 0.1 V	15 pF	2 kΩ	0.1 V
1.5 V ± 0.1 V	15 pF	2 kΩ	0.1 V
1.8 V ± 0.15 V	15 pF	2 kΩ	0.15 V
2.5 V ± 0.2 V	15 pF	2 kΩ	0.15 V
1.8 V ± 0.15 V	30 pF	1 kΩ	0.15 V
2.5 V ± 0.2 V	30 pF	500 Ω	0.15 V
1	I	I	I



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 , slew rate \geq 1 V/ns.
- 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 1. Load Circuit and Voltage Waveforms

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8 Detailed Description

8.1 Functional Block Diagram



Figure 2. Logic Diagram (Positive Logic)

8.2 Device Functional Modes

Table 1 lists the functional modes of the SN74AUC1G08.

Table 1. Function Table

INP	UTS	OUTPUT
Α	В	Y
Н	Н	Н
L	Χ	L
X	L	L



9 Device and Documentation Support

9.1 Documentation Support

9.1.1 Related Documentation

For related documentation see the following:

Implications of Slow or Floating CMOS Inputs, SCBA004.

9.2 Receiving Notification of Documentation Updates

To receive notification of documentation updates, navigate to the device product folder on ti.com. In the upper right corner, click on *Alert me* 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 Community Resources

The following links connect to TI community resources. Linked contents are 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.

TI E2E™ Online Community TI's Engineer-to-Engineer (E2E) Community. Created to foster collaboration among engineers. At e2e.ti.com, you can ask questions, share knowledge, explore ideas and help solve problems with fellow engineers.

Design Support *TI's Design Support* Quickly find helpful E2E forums along with design support tools and contact information for technical support.

9.4 Trademarks

NanoFree, E2E are trademarks of Texas Instruments. All other trademarks are the property of their respective owners.

9.5 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.

9.6 Glossary

SLYZ022 — TI Glossary.

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

10 Mechanical, Packaging, and Orderable Information

The following pages include mechanical, packaging, and orderable information. This information is the most current data available for the designated devices. This data is subject to change without notice and revision of this document. For browser-based versions of this data sheet, refer to the left-hand navigation.

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PACKAGING INFORMATION

Orderable part number	Status	Material type	Package Pins	Package qty Carrier	RoHS	Lead finish/ Ball material	MSL rating/ Peak reflow	Op temp (°C)	Part marking
	(1)	(2)			(3)	(4)	(5)		(0)
SN74AUC1G08DBVR	Active	Production	SOT-23 (DBV) 5	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	(U08K, U08R)
SN74AUC1G08DBVR.B	Active	Production	SOT-23 (DBV) 5	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	(U08K, U08R)
SN74AUC1G08DCKR	Active	Production	SC70 (DCK) 5	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	(UE5, UEF, UER)
SN74AUC1G08DCKR.B	Active	Production	SC70 (DCK) 5	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	(UE5, UEF, UER)
SN74AUC1G08DCKRG4	Active	Production	SC70 (DCK) 5	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	(UE5, UEF, UER)
SN74AUC1G08DRLR	Active	Production	SOT-5X3 (DRL) 5	4000 LARGE T&R	Yes	NIPDAUAG	Level-1-260C-UNLIM	-40 to 85	(UE7, UER)
SN74AUC1G08DRLR.B	Active	Production	SOT-5X3 (DRL) 5	4000 LARGE T&R	Yes	NIPDAUAG	Level-1-260C-UNLIM	-40 to 85	(UE7, UER)
SN74AUC1G08DRLRG4	Active	Production	SOT-5X3 (DRL) 5	4000 LARGE T&R	Yes	NIPDAUAG	Level-1-260C-UNLIM	-40 to 85	(UE7, UER)
SN74AUC1G08YZPR	Active	Production	DSBGA (YZP) 5	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	UEN
SN74AUC1G08YZPR.B	Active	Production	DSBGA (YZP) 5	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	UEN

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

Multiple part markings will be inside parentheses. Only one part marking contained in parentheses and separated by a "~" will appear on a part. If a line is indented then it is a continuation of the previous line and the two combined represent the entire part marking for that device.

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⁽²⁾ Material type: When designated, preproduction parts are prototypes/experimental devices, and are not yet approved or released for full production. Testing and final process, including without limitation quality assurance, reliability performance testing, and/or process qualification, may not yet be complete, and this item is subject to further changes or possible discontinuation. If available for ordering, purchases will be subject to an additional waiver at checkout, and are intended for early internal evaluation purposes only. These items are sold without warranties of any kind.

⁽³⁾ RoHS values: Yes, No, RoHS Exempt. See the TI RoHS Statement for additional information and value definition.

⁽⁴⁾ Lead finish/Ball material: Parts may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead finish/Ball material values may wrap to two lines if the finish value exceeds the maximum column width.

⁽⁵⁾ **MSL rating/Peak reflow:** The moisture sensitivity level ratings and peak solder (reflow) temperatures. In the event that a part has multiple moisture sensitivity ratings, only the lowest level per JEDEC standards is shown. Refer to the shipping label for the actual reflow temperature that will be used to mount the part to the printed circuit board.

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



PACKAGE OPTION ADDENDUM

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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.



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TAPE AND REEL INFORMATION





	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
SN74AUC1G08DBVR	SOT-23	DBV	5	3000	180.0	8.4	3.23	3.17	1.37	4.0	8.0	Q3
SN74AUC1G08DBVR	SOT-23	DBV	5	3000	180.0	8.4	3.17	3.23	1.37	4.0	8.0	Q3
SN74AUC1G08DCKR	SC70	DCK	5	3000	178.0	9.0	2.4	2.5	1.2	4.0	8.0	Q3
SN74AUC1G08DRLR	SOT-5X3	DRL	5	4000	180.0	8.4	1.98	1.78	0.69	4.0	8.0	Q3
SN74AUC1G08YZPR	DSBGA	YZP	5	3000	178.0	9.2	1.02	1.52	0.63	4.0	8.0	Q1



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*All dimensions are nominal

7 III GITTOTOTOTO GITO TIOTITICA							
Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74AUC1G08DBVR	SOT-23	DBV	5	3000	202.0	201.0	28.0
SN74AUC1G08DBVR	SOT-23	DBV	5	3000	205.0	200.0	33.0
SN74AUC1G08DCKR	SC70	DCK	5	3000	180.0	180.0	18.0
SN74AUC1G08DRLR	SOT-5X3	DRL	5	4000	202.0	201.0	28.0
SN74AUC1G08YZPR	DSBGA	YZP	5	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. 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.





DIE SIZE BALL GRID ARRAY



NOTES:

- 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.



DIE SIZE BALL GRID ARRAY



NOTES: (continued)

3. Final dimensions may vary due to manufacturing tolerance considerations and also routing constraints. For more information, see Texas Instruments literature number SNVA009 (www.ti.com/lit/snva009).



DIE SIZE BALL GRID ARRAY



NOTES: (continued)

4. 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. 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.



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