

Single 3-Input Positive OR-AND Gate

Check for Samples: SN74LVC1G3208

FEATURES

- Available in the Texas Instruments NanoStar[™] and NanoFree[™] Packages
- 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_{hys} = 250 mV Typ @ 3.3 V)
- Can Be Used in Three Combinations:
 - OR-AND Gate
 - OR Gate
 - AND 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

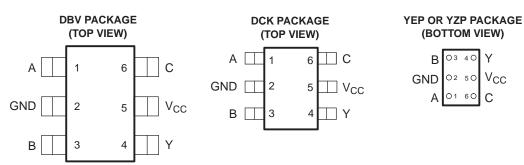
This device is designed for 1.65-V to 5.5-V $V_{\rm CC}$ operation.

The SN74LVC1G3208 device is a single 3-input positive OR-AND gate. It performs the Boolean function $Y = (A + B) \cdot C$ in positive logic.

By tying one input to GND or V_{CC} , the SN74LVC1G3208 device offers two more functions. When C is tied to V_{CC} , this device performs as a 2-input OR gate (Y = A + B). When A is tied to GND, the device works as a 2-input AND gate (Y = B \bullet C). This device also works as a 2-input AND gate when B is tied to GND (Y = A \bullet C).

NanoStar[™] and 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 $I_{\rm off}$. The $I_{\rm off}$ circuitry disables the outputs, preventing damaging current backflow through the device when it is powered down.



See mechanical drawings for dimensions.

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Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.





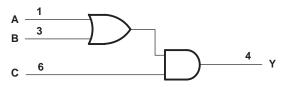
These devices have limited built-in ESD protection. The leads should be shorted together or the device placed in conductive foam during storage or handling to prevent electrostatic damage to the MOS gates.

Function Table⁽¹⁾

	INPUTS					
Α	В	С	Υ			
Н	X	Н	Н			
X	Н	Н	Н			
X	X	L	L			
L	L	Н	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

Logic Configurations

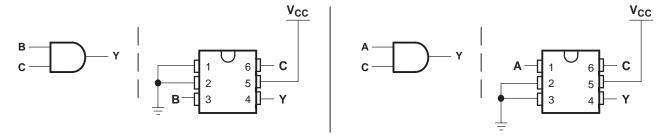


Figure 1. 2-Input AND Gate

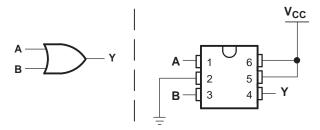


Figure 2. 2-Input OR Gate



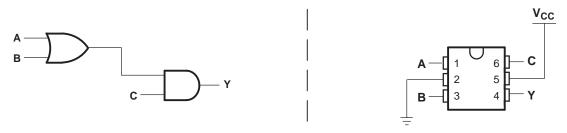


Figure 3. $Y = (A + B) \cdot C$

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
V_{I}	Input voltage range ⁽²⁾	-0.5	6.5	V	
Vo	Voltage range applied to any output in the	-0.5	6.5	V	
Vo	Voltage range applied to any output in the	-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			±50	mA
	Continuous current through V _{CC} or GND			±100	mA
		DBV package		165	
θ_{JA}	Package thermal impedance (4)	DCK package		259	°C/W
		YEP or YZP package		123	
T _{stg}	Storage temperature range	-65	150	°C	

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.

The input negative-voltage and output voltage ratings may be exceeded if the input and output current ratings are observed. The value of V_{CC} is provided in the recommended operating conditions table.

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



Recommended Operating Conditions⁽¹⁾

			MIN	MAX	UNIT
	Cumply walte as	Operating	1.65	5.5	V
V_{CC}	Supply voltage	Data retention only	1.5		V
		V _{CC} = 1.65 V to 1.95 V	0.65 × V _{CC}		
V	High level input valtage	V _{CC} = 2.3 V to 2.7 V	1.7		V
V_{IH}	High-level input voltage	$V_{CC} = 3 \text{ V to } 3.6 \text{ V}$	2		V
		$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	0.7 × V _{CC}		
		V _{CC} = 1.65 V to 1.95 V		$0.35 \times V_{CC}$	
V	Low-level input voltage	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		0.7	V
V_{IL}	Low-level input voltage	$V_{CC} = 3 \text{ V to } 3.6 \text{ V}$		0.8	V
		$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$		$0.3 \times V_{CC}$	
VI	Input voltage		0	5.5	V
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
				-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
				24	
		V _{CC} = 4.5 V		32	1
		$V_{CC} = 1.8 \text{ V} \pm 0.15 \text{ V}, 2.5 \text{ V} \pm 0.2 \text{ V}$		20	
Δt/Δν	Input transition rise or fall rate			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)

		TEST SOMBITIONS	,,	-40°(C to 85°C		–40°C	to 85°C		
	PARAMETER	TEST CONDITIONS	V _{cc}	MIN	TYP ⁽¹⁾	MAX	MIN	TYP ⁽¹⁾	MAX	UNIT
		I _{OH} = -100 μA	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			
V _{OH}		$I_{OH} = -8 \text{ mA}$	2.3 V	1.9			1.9			V
0		I _{OH} = -16 mA	2.1/	2.4			2.4			Š
		I _{OH} = -24 mA	3 V	2.3			2.3			
		$I_{OH} = -32 \text{ mA}$	4.5 V	3.8			3.8			Š
		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	45
V _{OL}		I _{OL} = 8 mA	2.3 V			0.3			0.3	V
		I _{OL} = 16 mA	2.1/			0.4			0.4	Š
		I _{OL} = 24 mA	3 V			0.55			0.55	Š
		I _{OL} = 32 mA	4.5 V			0.55			0.6	Š
I _I	A, B, or C inputs	V _I = 5.5 V or GND	0 to 5.5 V			±5			±5	μΑ
I _{off}		V_I or $V_O = 5.5 \text{ V}$	0			±10			±10	μA
I _{CC}		V _I = 5.5 V or GND, I _O = 0	1.65 V to 5.5 V			10			10	μΑ
ΔI _{CC}		One input at V _{CC} - 0.6 V, Other inputs at V _{CC} or GND	3 V to 5.5 V			500			500	μΑ
Ci		$V_I = V_{CC}$ or GND	3.3 V		3.5			3.5		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, $C_L = 15 \text{ pF}$ (unless otherwise noted) (see Figure 4)

		SN74LVC1G3208 -40°C to 85°C									
PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{CC} = 1. ± 0.15		V _{CC} = 2 ± 0.2		V _{CC} = 3 ± 0.3		V _{CC} = ± 0.5		UNIT
			MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
t _{pd}	A, B, or C	Υ	3.7	14	2.5	7	1.7	5	1.3	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)

			SN74LVC1G3208 -40°C to 85°C								
PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{CC} = 1.8 ± 0.15		V _{CC} = 2 ± 0.2		V _{CC} = 3 ± 0.3		V _{CC} = ± 0.5		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)

			SN74LVC1G3208 -40°C to 125°C								
PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{CC} = 1.8 ± 0.15		V _{CC} = 2 ± 0.2		V _{CC} = 3 ± 0.3		V _{CC} = ± 0.5	5 V 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

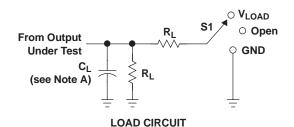
 $T_A = 25^{\circ}C$

PARAMETER		TEST	$V_{CC} = 1.8 \text{ V}$	$V_{CC} = 2.5 V$	$V_{CC} = 3.3 \text{ V}$	$V_{CC} = 5 V$	UNIT
PARAMETER	CONDITIONS	TYP	TYP	TYP	TYP	UNII	
C_{pd}	Power dissipation capacitance	f = 10 MHz	15	15	16	17	pF

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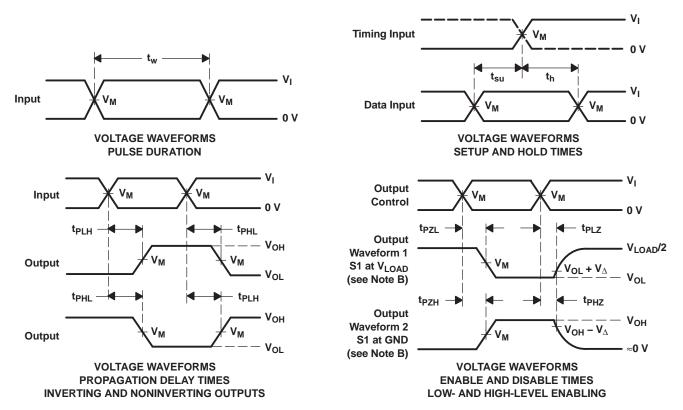


Parameter Measurement Information



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

	INF	PUTS	.,	.,		_	.,
V _{CC}	VI	t _r /t _f	V _M	V _{LOAD}	CL	R _L	$oldsymbol{V}_{\Delta}$
1.8 V ± 0.15 V	V _{CC}	≤2 ns	V _{CC} /2	2×V _{CC}	15 pF	1 ΜΩ	0.15 V
2.5 V \pm 0.2 V	V_{CC}	≤2 ns	V _{CC} /2	2×V _{CC}	15 pF	1 Μ Ω	0.15 V
3.3 V \pm 0.3 V	3 V	≤2.5 ns	1.5 V	6 V	15 pF	1 Μ Ω	0.3 V
5 V \pm 0.5 V	V_{CC}	≤2.5 ns	V _{CC} /2	2×V _{CC}	15 pF	1 Μ Ω	0.3 V



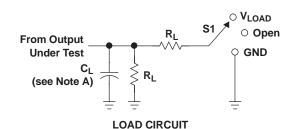
- NOTES: A. C_L includes probe and jig capacitance.
 - B. Waveform 1 is for an output with internal conditions such that the output is low, except when disabled by the output control. Waveform 2 is for an output with internal conditions such that the output is high, except when disabled by the output control.
 - C. All input pulses are supplied by generators having the following characteristics: PRR \leq 10 MHz, $Z_0 = 50~\Omega$.
 - 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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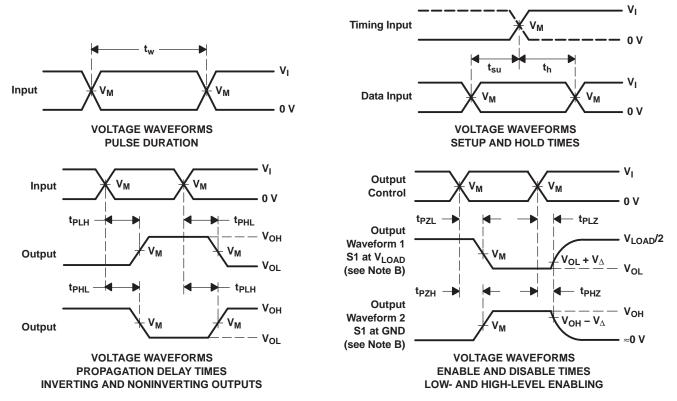


Parameter Measurement Information



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

.,	INF	PUTS	.,	.,		_	.,
V _{CC}	VI	t _r /t _f	V _M	V _{LOAD}	CL	R _L	V_{Δ}
1.8 V \pm 0.15 V	V _{CC}	≤ 2 ns	V _{CC} /2	2×V _{CC}	30 pF	1 k Ω	0.15 V
2.5 V \pm 0.2 V	V_{CC}	≤2 ns	V _{CC} /2	2×V _{CC}	30 pF	500 Ω	0.15 V
3.3 V \pm 0.3 V	3 V	≤2.5 ns	1.5 V	6 V	50 pF	500 Ω	0.3 V
5 V \pm 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, $Z_0 = 50 \ \Omega$.
 - 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





REVISION HISTORY

CI	hanges from Revision A (June 2005) to Revision B	Page
•	Updated document to new TI data sheet format.	1
•	Updated Features.	1
•	Removed Ordering Information table.	1
•	Added ESD warning.	2
•	Updated operating temperature range.	4





25-Oct-2016

PACKAGING INFORMATION

Orderable Device	Status	Package Type	_	Pins	Package	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Device Marking	Samples
	(1)		Drawing		Qty	(2)	(6)	(3)		(4/5)	
74LVC1G3208DBVRE4	ACTIVE	SOT-23	DBV	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	(CDD5 ~ CDDR)	Samples
74LVC1G3208DBVRG4	ACTIVE	SOT-23	DBV	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	(CDD5 ~ CDDR)	Samples
74LVC1G3208DBVTG4	ACTIVE	SOT-23	DBV	6	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	(CDD5 ~ CDDR)	Samples
SN74LVC1G3208DBVR	ACTIVE	SOT-23	DBV	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	(CDD5 ~ CDDR)	Samples
SN74LVC1G3208DBVT	ACTIVE	SOT-23	DBV	6	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	(CDD5 ~ CDDR)	Samples
SN74LVC1G3208DCKR	ACTIVE	SC70	DCK	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	(DD5 ~ DDK ~ DDR)	Samples
SN74LVC1G3208DCKT	ACTIVE	SC70	DCK	6	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	(DD5 ~ DDR)	Samples
SN74LVC1G3208YZPR	ACTIVE	DSBGA	YZP	6	3000	Green (RoHS & no Sb/Br)	SNAGCU	Level-1-260C-UNLIM	-40 to 85	DDN	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.

TBD: The Pb-Free/Green conversion plan has not been defined.

Pb-Free (RoHS): TI's terms "Lead-Free" or "Pb-Free" mean semiconductor products that are compatible with the current RoHS requirements for all 6 substances, including the requirement that lead not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, TI Pb-Free products are suitable for use in specified lead-free processes. **Pb-Free** (RoHS Exempt): This component has a RoHS exemption for either 1) lead-based flip-chip solder bumps used between the die and package, or 2) lead-based die adhesive used between the die and leadframe. The component is otherwise considered Pb-Free (RoHS compatible) as defined above.

Green (RoHS & no Sb/Br): TI defines "Green" to mean Pb-Free (RoHS compatible), and free of Bromine (Br) and Antimony (Sb) based flame retardants (Br or Sb do not exceed 0.1% by weight in homogeneous material)

⁽²⁾ Eco Plan - The planned eco-friendly classification: Pb-Free (RoHS), Pb-Free (RoHS Exempt), or Green (RoHS & no Sb/Br) - please check http://www.ti.com/productcontent for the latest availability information and additional product content details.

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



PACKAGE OPTION ADDENDUM

25-Oct-2016

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

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OTHER QUALIFIED VERSIONS OF SN74LVC1G3208:

Automotive: SN74LVC1G3208-Q1

Enhanced Product: SN74LVC1G3208-EP

NOTE: Qualified Version Definitions:

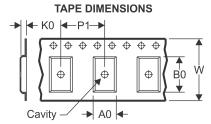
- Automotive Q100 devices qualified for high-reliability automotive applications targeting zero defects
- Enhanced Product Supports Defense, Aerospace and Medical Applications

PACKAGE MATERIALS INFORMATION

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TAPE AND REEL INFORMATION





	Dimension designed to accommodate the component width
	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
SN74LVC1G3208DBVR	SOT-23	DBV	6	3000	178.0	9.2	3.3	3.23	1.55	4.0	8.0	Q3
SN74LVC1G3208DBVR	SOT-23	DBV	6	3000	180.0	8.4	3.23	3.17	1.37	4.0	8.0	Q3
SN74LVC1G3208DBVT	SOT-23	DBV	6	250	178.0	9.2	3.3	3.23	1.55	4.0	8.0	Q3
SN74LVC1G3208DBVT	SOT-23	DBV	6	250	180.0	8.4	3.23	3.17	1.37	4.0	8.0	Q3
SN74LVC1G3208DCKR	SC70	DCK	6	3000	178.0	9.2	2.4	2.4	1.22	4.0	8.0	Q3
SN74LVC1G3208DCKR	SC70	DCK	6	3000	180.0	9.2	2.3	2.55	1.2	4.0	8.0	Q3
SN74LVC1G3208DCKT	SC70	DCK	6	250	178.0	9.2	2.4	2.4	1.22	4.0	8.0	Q3
SN74LVC1G3208YZPR	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)
SN74LVC1G3208DBVR	SOT-23	DBV	6	3000	180.0	180.0	18.0
SN74LVC1G3208DBVR	SOT-23	DBV	6	3000	202.0	201.0	28.0
SN74LVC1G3208DBVT	SOT-23	DBV	6	250	180.0	180.0	18.0
SN74LVC1G3208DBVT	SOT-23	DBV	6	250	202.0	201.0	28.0
SN74LVC1G3208DCKR	SC70	DCK	6	3000	180.0	180.0	18.0
SN74LVC1G3208DCKR	SC70	DCK	6	3000	205.0	200.0	33.0
SN74LVC1G3208DCKT	SC70	DCK	6	250	180.0	180.0	18.0
SN74LVC1G3208YZPR	DSBGA	YZP	6	3000	220.0	220.0	35.0

DCK (R-PDSO-G6)

PLASTIC SMALL-OUTLINE PACKAGE



NOTES: A. All linear dimensions are in millimeters.

- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion. Mold flash and protrusion shall not exceed 0.15 per side.
- D. Falls within JEDEC MO-203 variation AB.



DCK (R-PDSO-G6)

PLASTIC SMALL OUTLINE



NOTES:

- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
- C. Customers should place a note on the circuit board fabrication drawing not to alter the center solder mask defined pad.
- D. Publication IPC-7351 is recommended for alternate designs.
- E. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should contact their board assembly site for stencil design recommendations. Example stencil design based on a 50% volumetric metal load solder paste. Refer to IPC-7525 for other stencil recommendations.





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)

4. 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.



DBV (R-PDSO-G6)

PLASTIC SMALL-OUTLINE PACKAGE



NOTES:

- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion. Mold flash and protrusion shall not exceed 0.15 per side.
- D. Leads 1,2,3 may be wider than leads 4,5,6 for package orientation.
- Falls within JEDEC MO-178 Variation AB, except minimum lead width.



DBV (R-PDSO-G6)

PLASTIC SMALL OUTLINE



NOTES:

- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
- C. Customers should place a note on the circuit board fabrication drawing not to alter the center solder mask defined pad.
- D. Publication IPC-7351 is recommended for alternate designs.
- E. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should contact their board assembly site for stencil design recommendations. Example stencil design based on a 50% volumetric metal load solder paste. Refer to IPC-7525 for other stencil recommendations.



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