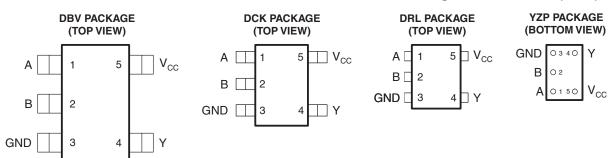


FEATURES

- Available in the Texas Instruments NanoFree[™] Package
- Supports 5-V V_{CC} Operation
- Inputs Accept Voltages to 5.5 V •
- Max t_{nd} of 3.8 ns at 3.3 V •
- Low Power Consumption, 10-µA Max I_{cc}
- ±24-mA Output Drive at 3.3 V

- Ioff Supports Partial-Power-Down Mode Operation
- 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)



See mechanical drawings for dimensions.

DESCRIPTION/ORDERING INFORMATION

This single 2-input positive-NAND gate is designed for 1.65-V to 5.5-V V_{CC} operation.

The SN74LVC1G00 performs the Boolean function $Y = A \cdot B$ or Y = A + 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 I_{off}. The I_{off} circuitry disables the outputs, preventing damaging current backflow through the device when it is powered down.

PACKAGE⁽¹⁾ **TOP-SIDE MARKING**⁽²⁾ **ORDERABLE PART NUMBER** TA NanoFree[™] – WCSP (DSBGA) _ _ _ CA_ 0.23-mm Large Bump - YZP SN74LVC1G00YZPR (Pb-free) SN74LVC1G00DBVR Reel of 3000 SOT (SOT-23) - DBV C00_ -40°C to 85°C Reel of 250 SN74LVC1G00DBVT Reel of 3000 SN74LVC1G00DCKR SOT (SC-70) - DCK Reel of 250 SN74LVC1G00DCKT CA SOT (SOT-553) - DRL Reel of 4000 SN74LVC1G00DRLR

ORDERING INFORMATION

Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at (1) www.ti.com/sc/package.

DBV/DCK/DRL: The actual top-side marking has one additional character that designates the assembly/test site. (2)YZP: The actual top-side marking has three preceding characters to denote year, month, and sequence code, and one following character to designate the assembly/test site. Pin 1 identifier indicates solder-bump composition (1 = SnPb, • = Pb-free).



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. NanoFree is a trademark of Texas Instruments.

FUNCTION TABLE

INP	INPUTS					
Α	В	Y				
Н	Н	L				
L	Х	н				
Х	L	н				

LOGIC DIAGRAM (POSITIVE LOGIC)



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		-0.5	6.5	V
Vo	Voltage range applied to any output in the h	-0.5	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
I _O	Continuous output current			±50	mA
	Continuous current through V _{CC} or GND			±100	mA
		DBV package		206	
0	Declares the end in a decree (4)	DCK package		252	°C/W
θ_{JA}	Package thermal impedance ⁽⁴⁾	DRL package		142	
		YZP package		132	
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.

(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
V	Supply yeltage	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	$0.65 imes V_{CC}$		
V	Lich lovel input velte se	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	1.7		V
V _{IH}	High-level input voltage	$V_{CC} = 3 V$ to 3.6 V	2		v
		V_{CC} = 4.5 V to 5.5 V	$0.7 imes V_{CC}$		
		V _{CC} = 1.65 V to 1.95 V		$0.35 \times V_{CC}$	
V		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		0.7	V
V _{IL}	Low-level input voltage	$V_{CC} = 3 V \text{ to } 3.6 V$		0.8	v
		$V_{CC} = 4.5 \text{ V} \text{ to } 5.5 \text{ V}$		$0.3 imes V_{CC}$	
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	vel output current		-16	mA
		$V_{CC} = 3 V$		-24	
		V _{CC} = 4.5 V		-32	1
		V _{CC} = 1.65 V		4	
		V _{CC} = 2.3 V		8	
I _{OL}	Low-level output current	$V_{CC} = 3 V$		16	mA
		$v_{\rm CC} = 3 v$		24	
		V _{CC} = 4.5 V		32	
		V_{CC} = 1.8 V \pm 0.15 V, 2.5 V \pm 0.2 V		20	
$\Delta t / \Delta v$	Input transition rise or fall rate	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$		10	ns/V
		$V_{CC} = 5 \text{ V} \pm 0.5 \text{ V}$		5	
T _A	Operating free-air temperature	· · · ·	-40	85	°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)

PAR	AMETER	TEST CONDI	ITIONS	V _{cc}	MIN	TYP ⁽¹⁾	MAX	UNIT
		I _{OH} = -100 μA		1.65 V to 5.5 V	V _{CC} – 0.1			
		$I_{OH} = -4 \text{ mA}$		1.65 V	1.2			V
v		$I_{OH} = -8 \text{ mA}$		2.3 V				
V _{OH}		$I_{OH} = -16 \text{ mA}$		- 3 V	2.4			v
		$I_{OH} = -24 \text{ mA}$		3 V	2.3			
		$I_{OH} = -32 \text{ mA}$		4.5 V	3.8			
		I _{OL} = 100 μA		1.65 V to 5.5 V			0.1	
		I _{OL} = 4 mA		1.65 V			0.45	
v		I _{OL} = 8 mA	2.3 V			0.3	V	
V _{OL}		I _{OL} = 16 mA	- 3 V			v		
		$I_{OL} = 24 \text{ mA}$	3 V			0.55		
		I _{OL} = 32 mA		4.5 V			0.55	
I _I	A or B inputs	$V_{I} = 5.5 \text{ V or GND}$		0 to 5.5 V			±5	μΑ
I _{off}		$V_1 \text{ or } V_0 = 5.5 \text{ V}$		0			±10	μΑ
I _{CC}		$V_1 = 5.5 \text{ V or GND}$ I_0	= 0	1.65 V to 5.5 V			10	μΑ
ΔI_{CC}		One input at $V_{CC} - 0.6 V$, Ot	her inputs at V _{CC} or GND	3 V to 5.5 V			500	μΑ
Ci		$V_1 = V_{CC}$ or GND		3.3 V		4		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 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V_{CC} = 1.8 V ± 0.15 V		$\begin{array}{c} \mathrm{V_{CC}=2.5~V}\\ \pm~0.2~\mathrm{V} \end{array}$		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 or B	Y	2.2	7.2	0.9	4.4	0.8	3.8	0.8	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 2)

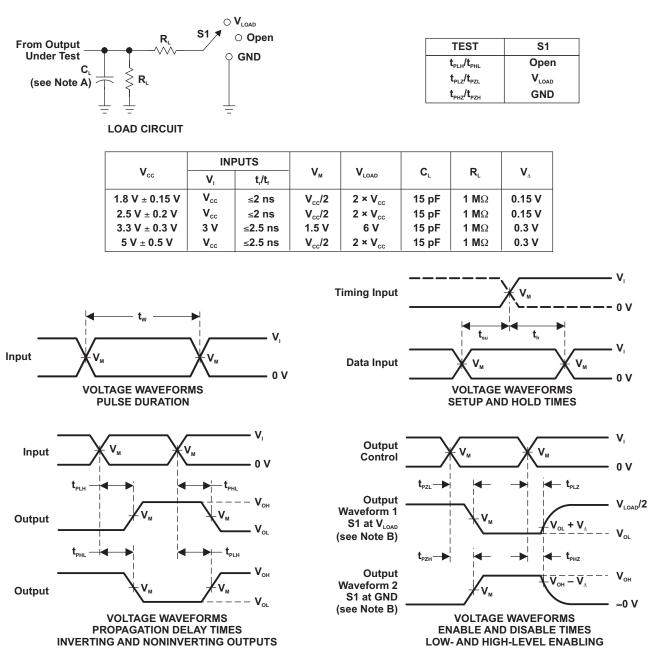
PARAMETER	FROM (INPUT)	TO (OUTPUT)	V_{CC} = 1.8 V ± 0.15 V		$\begin{array}{c} \mathrm{V_{CC}} \texttt{=} \texttt{ 2.5 V} \\ \pm \texttt{ 0.2 V} \end{array}$		V_{CC} = 3.3 V ± 0.3 V		V_{CC} = 5 V ± 0.5 V		UNIT
			MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
t _{pd}	A or B	Y	3.1	9	1.3	5.5	1	4.7	1	4	ns

Operating Characteristics

 $T_A = 25^{\circ}C$

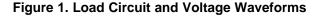
	PARAMETER	TEST	V _{CC} = 1.8 V	V _{CC} = 2.5 V	V _{CC} = 3.3 V	V _{CC} = 5 V	UNIT	
		CONDITIONS	TYP	TYP	TYP	TYP		
C_{pd}	Power dissipation capacitance	f = 10 MHz	22	22	23	25	pF	

PARAMETER MEASUREMENT INFORMATION

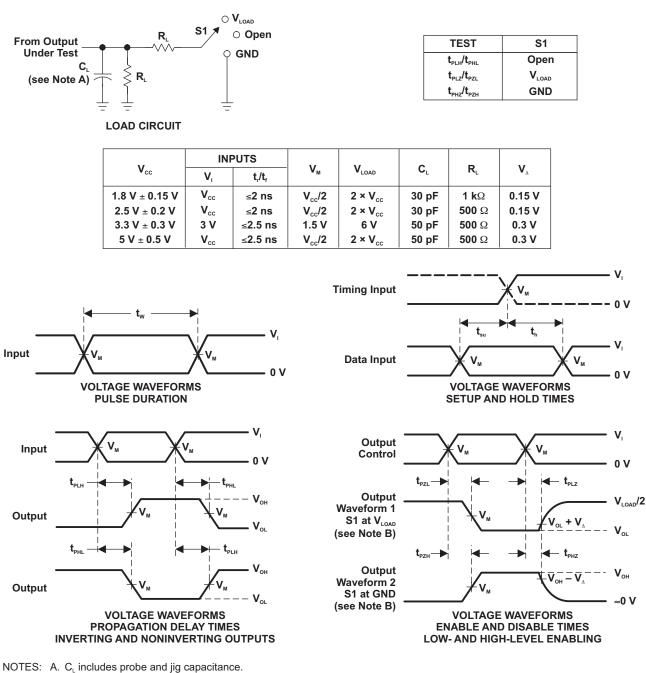


NOTES: A. C_{L} includes probe and jig capacitance.

- 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 ≤ 10 MHz, Z₀ = 50 Ω.
- D. The outputs are measured one at a time, with one transition per measurement.
- E. $t_{\mbox{\tiny PLZ}}$ and $t_{\mbox{\tiny PHZ}}$ are the same as $t_{\mbox{\tiny dis}}.$
- F. t_{PZL} and t_{PZH} are the same as t_{en} .
- G. t_{PLH} and t_{PHL} are the same as t_{od} .
- H. All parameters and waveforms are not applicable to all devices.



PARAMETER MEASUREMENT INFORMATION (continued)



 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 ≤ 10 MHz, Z₀ = 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_{od} .
- H. All parameters and waveforms are not applicable to all devices.

Figure 2. Load Circuit and Voltage Waveforms

5-Dec-2008

PACKAGING INFORMATION

MENTS

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Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Packag Qty	e Eco Plan ⁽²⁾	Lead/Ball Finisł	n MSL Peak Temp ⁽³⁾
SN74LVC1G00DBVR	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1G00DBVRE4	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1G00DBVRG4	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1G00DBVT	ACTIVE	SOT-23	DBV	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1G00DBVTE4	ACTIVE	SOT-23	DBV	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1G00DBVTG4	ACTIVE	SOT-23	DBV	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1G00DCKR	ACTIVE	SC70	DCK	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1G00DCKRE4	ACTIVE	SC70	DCK	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1G00DCKRG4	ACTIVE	SC70	DCK	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1G00DCKT	ACTIVE	SC70	DCK	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1G00DCKTE4	ACTIVE	SC70	DCK	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1G00DCKTG4	ACTIVE	SC70	DCK	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1G00DRLR	ACTIVE	SOT	DRL	5	4000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1G00DRLRG4	ACTIVE	SOT	DRL	5	4000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1G00YZPR	ACTIVE	DSBGA	YZP	5	3000	Green (RoHS & no Sb/Br)	SNAGCU	Level-1-260C-UNLIM

⁽¹⁾ The marketing status values are defined as follows:

ACTIVE: Product device recommended for new designs.

LIFEBUY: TI has announced that the device will be discontinued, and a lifetime-buy period is in effect.

NRND: Not recommended for new designs. Device is in production to support existing customers, but TI does not recommend using this part in a new design.

PREVIEW: Device has been announced but is not in production. Samples may or may not be available.

OBSOLETE: TI has discontinued the production of the device.

⁽²⁾ 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. **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)

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



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OTHER QUALIFIED VERSIONS OF SN74LVC1G00 :

Enhanced Product: SN74LVC1G00-EP

NOTE: Qualified Version Definitions:

• Enhanced Product - Supports Defense, Aerospace and Medical Applications

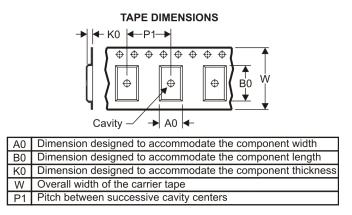
PACKAGE MATERIALS INFORMATION

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TAPE AND REEL INFORMATION





QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



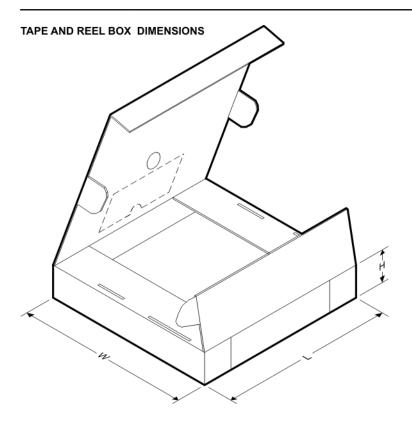
*All dimensions are nominal	All dimensions are nominal											
Device	Package Type	Package Drawing	Pins	SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN74LVC1G00DBVR	SOT-23	DBV	5	3000	180.0	9.2	3.23	3.17	1.37	4.0	8.0	Q3
SN74LVC1G00DBVR	SOT-23	DBV	5	3000	178.0	9.0	3.23	3.17	1.37	4.0	8.0	Q3
SN74LVC1G00DBVT	SOT-23	DBV	5	250	180.0	9.2	3.23	3.17	1.37	4.0	8.0	Q3
SN74LVC1G00DBVT	SOT-23	DBV	5	250	178.0	9.0	3.23	3.17	1.37	4.0	8.0	Q3
SN74LVC1G00DCKR	SC70	DCK	5	3000	178.0	9.0	2.4	2.5	1.2	4.0	8.0	Q3
SN74LVC1G00DCKR	SC70	DCK	5	3000	180.0	9.2	2.24	2.34	1.22	4.0	8.0	Q3
SN74LVC1G00DCKT	SC70	DCK	5	250	178.0	9.0	2.4	2.5	1.2	4.0	8.0	Q3
SN74LVC1G00DCKT	SC70	DCK	5	250	180.0	9.2	2.24	2.34	1.22	4.0	8.0	Q3
SN74LVC1G00DRLR	SOT	DRL	5	4000	180.0	9.2	1.78	1.78	0.69	4.0	8.0	Q3
SN74LVC1G00YZPR	DSBGA	YZP	5	3000	180.0	8.4	1.02	1.52	0.63	4.0	8.0	Q1

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PACKAGE MATERIALS INFORMATION

24-Sep-2009



*All dimensions are nominal							
Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74LVC1G00DBVR	SOT-23	DBV	5	3000	205.0	200.0	33.0
SN74LVC1G00DBVR	SOT-23	DBV	5	3000	180.0	180.0	18.0
SN74LVC1G00DBVT	SOT-23	DBV	5	250	205.0	200.0	33.0
SN74LVC1G00DBVT	SOT-23	DBV	5	250	180.0	180.0	18.0
SN74LVC1G00DCKR	SC70	DCK	5	3000	180.0	180.0	18.0
SN74LVC1G00DCKR	SC70	DCK	5	3000	205.0	200.0	33.0
SN74LVC1G00DCKT	SC70	DCK	5	250	180.0	180.0	18.0
SN74LVC1G00DCKT	SC70	DCK	5	250	205.0	200.0	33.0
SN74LVC1G00DRLR	SOT	DRL	5	4000	202.0	201.0	28.0
SN74LVC1G00YZPR	DSBGA	YZP	5	3000	220.0	220.0	34.0

DBV (R-PDSO-G5)

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-178 Variation AA.



DCK (R-PDSO-G5)

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 AA.



DRL (R-PDSO-N5)

PLASTIC SMALL OUTLINE



NOTES:

All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M-1994. Α. B. This drawing is subject to change without notice.

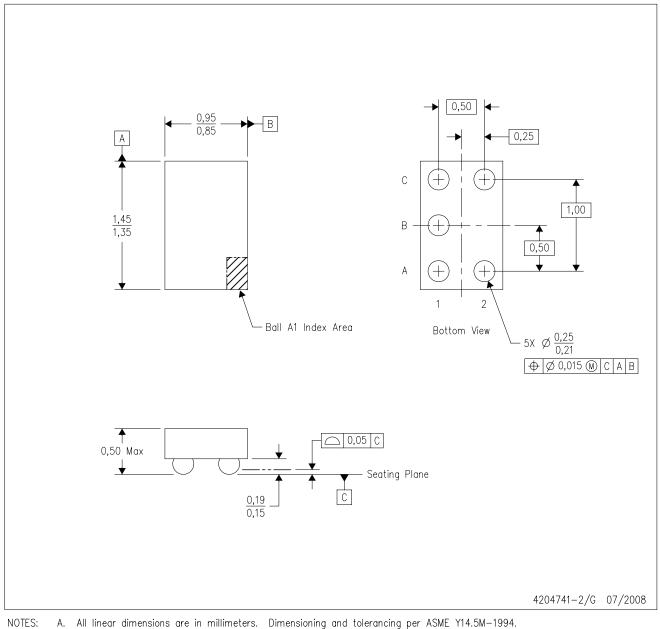
🖄 Body dimensions do not include mold flash, interlead flash, protrusions, or gate burrs. Mold flash, interlead flash, protrusions, or gate burrs shall not exceed 0,15 per end or side.





YZP (R-XBGA-N5)

DIE-SIZE BALL GRID ARRAY



- B. This drawing is subject to change without notice.
- C. NanoFree™ package configuration.
- D. This package is lead-free. Refer to the 5 YEP package (drawing 4204725) for tin-lead (SnPb).

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