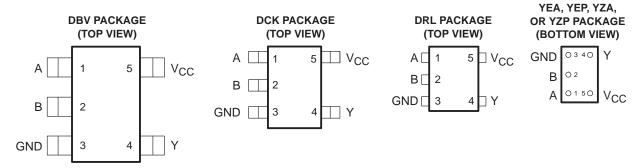
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- Available in the Texas Instruments
 NanoStar™ and NanoFree™ Packages
- Supports 5-V V_{CC} Operation
- Inputs Accept Voltages to 5.5 V
- Max t_{pd} of 3.8 ns at 3.3 V
- Low Power Consumption, 10-μA Max I_{CC}
- ±24-mA Output Drive at 3.3 V

- I_{off} 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 $Y = \overline{A \bullet B}$ or $Y = \overline{A} + \overline{B}$ in positive logic.

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_{off}. The I_{off} circuitry disables the outputs, preventing damaging current backflow through the device when it is powered down.



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.

NanoStar and NanoFree are trademarks of Texas Instruments.



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ORDERING INFORMATION

TA	PACKAGE [†]		ORDERABLE PART NUMBER	TOP-SIDE MARKING‡	
	NanoStar™ – WCSP (DSBGA) 0.17-mm Small Bump – YEA		SN74LVC1G00YEAR		
	NanoFree™ – WCSP (DSBGA) 0.17-mm Small Bump – YZA (Pb-free)		SN74LVC1G00YZAR		
	NanoStar™ – WCSP (DSBGA) 0.23-mm Large Bump – YEP	Reel of 3000	SN74LVC1G00YEPR	CA_	
-40°C to 85°C	NanoFree™ – WCSP (DSBGA) 0.23-mm Large Bump – YZP (Pb-free)		SN74LVC1G00YZPR		
	007 (007 00)	Reel of 3000	SN74LVC1G00DBVR	000	
	SOT (SOT-23) – DBV	Reel of 250	SN74LVC1G00DBVT	C00_	
	SOT (SC-70) – DCK	Reel of 3000	SN74LVC1G00DCKR		
	301 (30-70) - DCK	Reel of 250	SN74LVC1G00DCKT	CA_	
	SOT (SOT-553) – DRL	Reel of 4000	SN74LVC1G00DRLR]	

[†] Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.

FUNCTION TABLE

INP	JTS	OUTPUT
Α	В	Υ
Н	Н	L
L	Χ	Н
Х	L	Н

logic diagram (positive logic)



DBV/DCK: The actual top-side marking has one additional character that designates the assembly/test site.

YEA/YZA,YEP/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).

SN74LVC1G00 SINGLE 2-INPUT POSITIVE-NAND GATE

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absolute maximum ratings over operating free-air temperature range (unless otherwise noted) Supply voltage range, V_{CC}–0.5 V to 6.5 V Voltage range applied to any output in the high-impedance or power-off state, Vo Voltage range applied to any output in the high or low state, Vo Output clamp current, I_{OK} (V_O < 0) –50 mA Continuous output current, IO ±50 mA Continuous current through V_{CC} or GND±100 mA DCK package 252°C/W DRL package 142°C/W YEA/YZA package 154°C/W YEP/YZP package 132°C/W Storage temperature range, T_{stq} –65°C to 150°C

NOTES: 1. The input and output negative-voltage ratings may be exceeded if the input and output current ratings are observed.

- 2. The value of V_{CC} is provided in the recommended operating conditions table.
- 3. The package thermal impedance is calculated in accordance with JESD 51-7.



[†] 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.

SN74LVC1G00 **SINGLE 2-INPUT POSITIVE-NAND GATE**

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recommended operating conditions (see Note 4)

			MIN	MAX	UNIT
.,	0 1 1	Operating	1.65	5.5	.,
VCC	Supply voltage	Data retention only	1.5		V
		V _{CC} = 1.65 V to 1.95 V	0.65 × V _{CC}		
.,	LPak Java Canada adia aa	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	1.7		.,
V_{IH}	High-level input voltage	$V_{CC} = 3 V \text{ to } 3.6 V$	2		V
		$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	$0.7 \times V_{CC}$		
		V _{CC} = 1.65 V to 1.95 V		$0.35 \times V_{CC}$	
.,	Law Israel Sanut well-	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		0.7	.,
V _{IL} Lo	Low-level input voltage	V _{CC} = 3 V to 3.6 V		0.8	V
		V _{CC} = 4.5 V to 5.5 V		0.3 × V _{CC}	
٧ı	Input voltage	·	0	5.5	V
٧o	Output voltage		0	VCC	V
		V _{CC} = 1.65 V		-4	
		V _{CC} = 2.3 V		-8	
loh	High-level output current	irrent		-16	mA
		VCC = 3 V		-24	
		V _{CC} = 4.5 V		-32	
		V _{CC} = 1.65 V		4	
		V _{CC} = 2.3 V		8	
loL	Low-level output current			16	mA
-		V _{CC} = 3 V		24	
		V _{CC} = 4.5 V		32	
		V_{CC} = 1.8 V ± 0.15 V, 2.5 V ± 0.2 V		20	
Δt/Δν	Input transition rise or fall rate	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$		10	ns/V
		V _{CC} = 5 V ± 0.5 V		5	
TA	Operating free-air temperature	·	-40	85	°C

NOTE 4: 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.



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

PAF	RAMETER	TEST CONDITIONS	VCC	MIN	TYP [†]	MAX	UNIT	
		$I_{OH} = -100 \mu A$	1.65 V to 5.5 V	V _{CC} - 0.1				
		$I_{OH} = -4 \text{ mA}$	1.65 V	1.2				
		$I_{OH} = -8 \text{ mA}$	2.3 V	1.9]	
VOH		$I_{OH} = -16 \text{ mA}$	0.1/	2.4			V	
		$I_{OH} = -24 \text{ mA}$	3 V	2.3				
		I _{OH} = -32 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		
		I _{OL} = 8 mA	2.3 V	0.3]]	
VOL		I _{OL} = 16 mA	0.1/			0.4	V	
		$I_{OL} = 24 \text{ mA}$	3 V			0.55		
		I _{OL} = 32 mA	4.5 V			0.55		
Ц	A or B inputs	$V_I = 5.5 \text{ V or GND}$	0 to 5.5 V			±5	μΑ	
l _{off}		V_I or $V_O = 5.5 V$	0			±10	μΑ	
ICC		$V_I = 5.5 \text{ V or GND}, \qquad I_O = 0$	1.65 V to 5.5 V			10	μΑ	
Δlcc		One input at V _{CC} – 0.6 V, Other inputs at V _{CC} or GND	3 V to 5.5 V			500	μΑ	
Ci		$V_I = V_{CC}$ or GND	3.3 V		4		pF	

 $[\]uparrow$ 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 1)

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 or B	Υ	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 pF or 50 pF (unless otherwise noted) (see Figure 2)

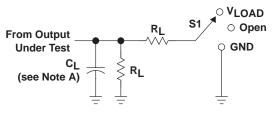
PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{CC} = 1.8 V ± 0.15 V		V _{CC} = 2.5 V ± 0.2 V		V _{CC} = 3.3 V ± 0.3 V		V _{CC} = 5 V ± 0.5 V		UNIT
	(INPUT)	(001701)	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
t _{pd}	A or B	Y	3.1	9	1.3	5.5	1	4.7	1	4	ns

operating characteristics, $T_A = 25^{\circ}C$

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



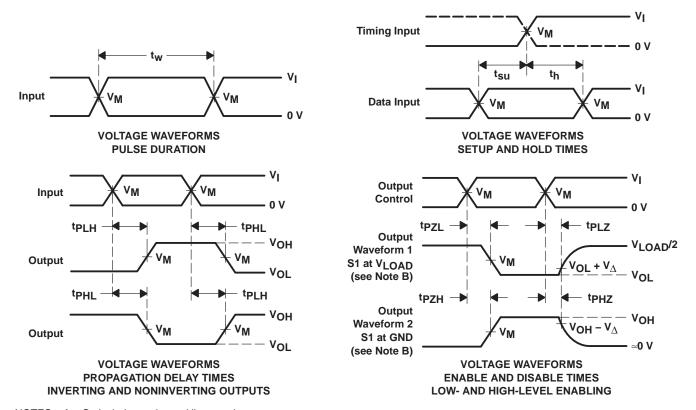
PARAMETER MEASUREMENT INFORMATION



TEST	S1
tPLH/tPHL	Open
tPLZ/tPZL	VLOAD
^t PHZ ^{/t} PZH	GND

LOAD CIRCUIT

W	$\begin{array}{c c} & \underline{\text{INPUTS}} \\ \hline V_{\text{I}} & t_{\text{r}}/t_{\text{f}} \end{array} V_{\text{M}} \qquad V_{\text{LOAD}}$			V	0.	В.	V
VCC			CL	RL	$v_{\scriptscriptstyle\Delta}$		
1.8 V \pm 0.15 V	VCC	≤2 ns	V _{CC} /2	2×V _{CC}	15 pF	1 M Ω	0.15 V
2.5 V \pm 0.2 V	VCC	≤ 2 ns	V _{CC} /2	2×VCC	15 pF	1 M Ω	0.15 V
3.3 V \pm 0.3 V	3 V	≤2.5 ns	1.5 V	6 V	15 pF	1 M Ω	0.3 V
5 V \pm 0.5 V	VCC	≤2.5 ns	V _{CC} /2	2×V _{CC}	15 pF	1 M Ω	0.3 V



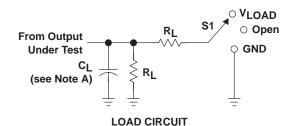
NOTES: A. C_I includes probe and jig capacitance.

- 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, Z_Ω = 50 Ω.
- D. The outputs are measured one at a time, with one transition per measurement.
- E. tpLz and tpHz are the same as tdis.
- F. tpzL and tpzH are the same as ten.
- G. tpLH and tpHL are the same as tpd.
- H. All parameters and waveforms are not applicable to all devices.

Figure 1. Load Circuit and Voltage Waveforms

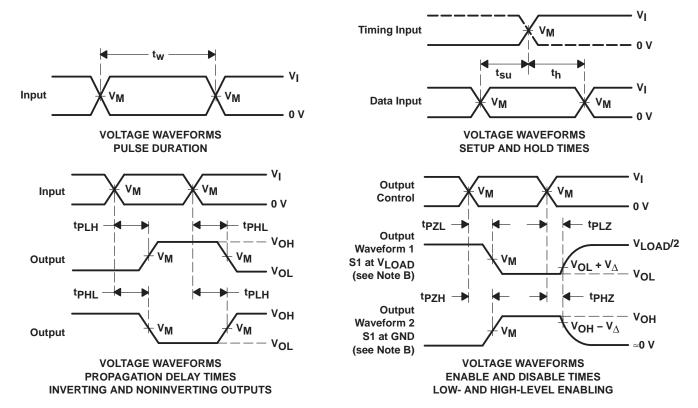


PARAMETER MEASUREMENT INFORMATION



TEST	S1
tPLH/tPHL	Open
tPLZ/tPZL	VLOAD
^t PHZ ^{/t} PZH	GND

W	INPUTS			V	0	6	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
VCC	٧ _I	t _r /t _f	t _r /t _f		CL	R_L	$oldsymbol{V}_\Delta$
1.8 V \pm 0.15 V	VCC	≤2 ns	V _{CC} /2	2×V _{CC}	30 pF	1 k Ω	0.15 V
2.5 V \pm 0.2 V	VCC	≤ 2 ns	V _{CC} /2	2×VCC	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	VCC	≤2.5 ns	V _{CC} /2	2×V _{CC}	50 pF	500 Ω	0.3 V



NOTES: A. C_I 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, Z_Ω = 50 Ω.
- D. The outputs are measured one at a time, with one transition per measurement.
- E. tpLZ and tpHZ are the same as tdis.
- F. tpzL and tpzH are the same as ten.
- G. tpLH and tpHL are the same as tpd.
- H. All parameters and waveforms are not applicable to all devices.

Figure 2. Load Circuit and Voltage Waveforms









PACKAGING INFORMATION

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	e Eco Plan ⁽²⁾	Lead/Ball Finish	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
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
SN74LVC1G00DRLR	ACTIVE	SOP	DRL	5	4000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1G00DRLRG4	ACTIVE	SOP	DRL	5	4000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1G00YEAR	NRND	WCSP	YEA	5	3000	TBD	SNPB	Level-1-260C-UNLIM
SN74LVC1G00YEPR	NRND	WCSP	YEP	5	3000	TBD	SNPB	Level-1-260C-UNLIM
SN74LVC1G00YZAR	NRND	WCSP	YZA	5	3000	Green (RoHS & no Sb/Br)	SNAGCU	Level-1-260C-UNLIM
SN74LVC1G00YZPR	ACTIVE	WCSP	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.

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

6-Dec-2006

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DBV (R-PDSO-G5)

PLASTIC SMALL-OUTLINE PACKAGE



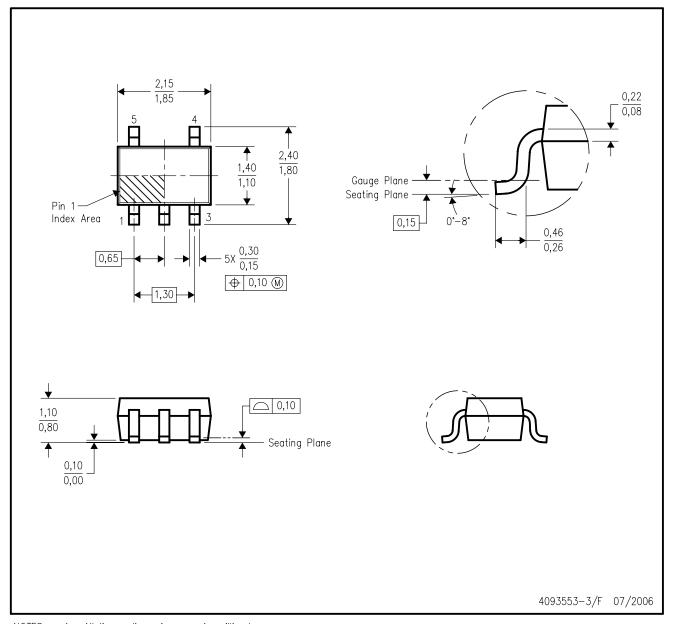
NOTES:

- 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



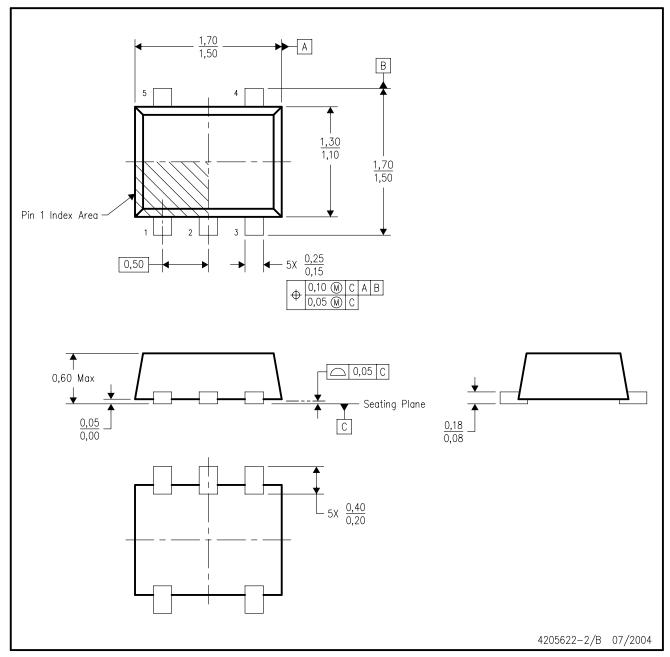
NOTES: A. All linear dimensions are in millimeters.

- 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



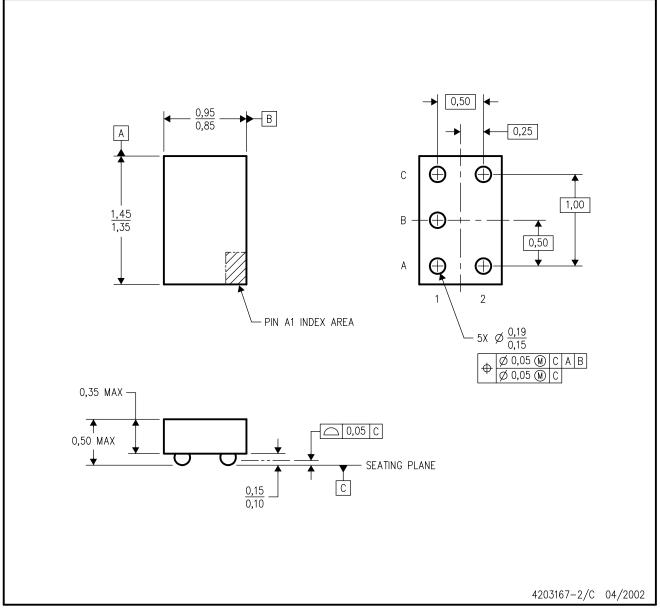
NOTES:

- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
- C. JEDEC package registration is pending.



YEA (R-XBGA-N5)

DIE-SIZE BALL GRID ARRAY



NOTES: A. All linear dimensions are in millimeters.

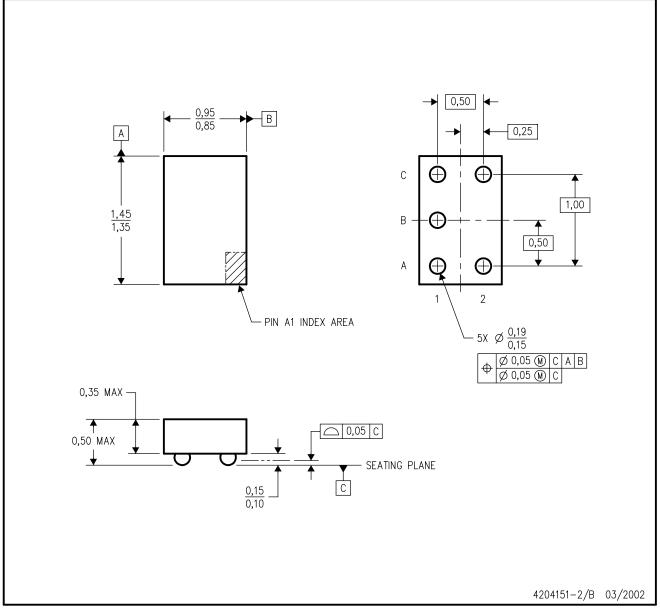
- B. This drawing is subject to change without notice.
- C. NanoStar \mathbf{M} package configuration.
- D. Package complies to JEDEC MO-211 variation EA.
- E. This package is tin-lead (SnPb). Refer to the 5 YZA package (drawing 4204151) for lead-free.

NanoStar is a trademark of Texas Instruments.



YZA (R-XBGA-N5)

DIE-SIZE BALL GRID ARRAY



NOTES: A. All linear dimensions are in millimeters.

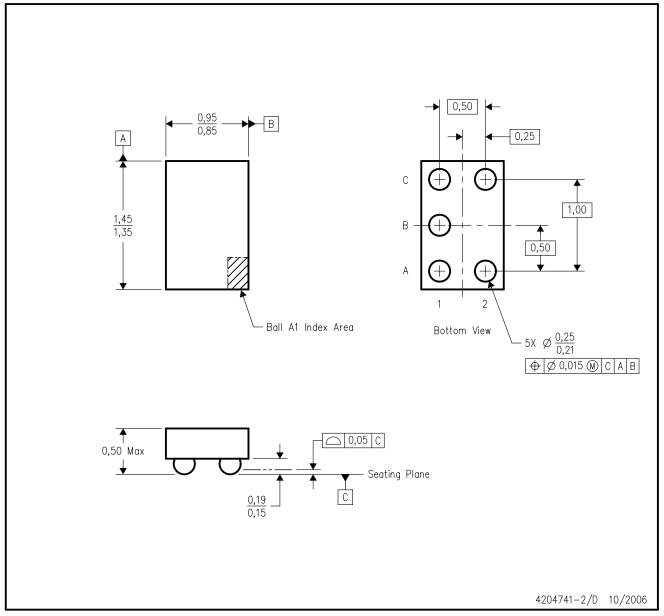
- B. This drawing is subject to change without notice.
- C. NanoFree $^{\text{TM}}$ package configuration.
- D. Package complies to JEDEC MO-211 variation EA.
- E. This package is lead-free. Refer to the 5 YEA package (drawing 4203167) for tin-lead (SnPb).

NanoFree is a trademark of Texas Instruments.



YZP (R-XBGA-N5)

DIE-SIZE BALL GRID ARRAY



NOTES: A. All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M-1994.

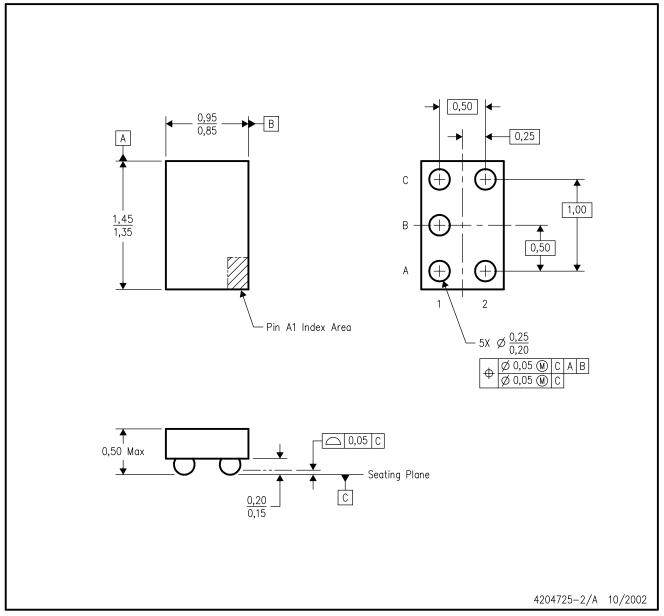
- B. This drawing is subject to change without notice.
- C. NanoFree $^{\text{TM}}$ package configuration.
- D. This package is lead-free. Refer to the 5 YEP package (drawing 4204725) for tin-lead (SnPb).

NanoFree is a trademark of Texas Instruments.



YEP (R-XBGA-N5)

DIE-SIZE BALL GRID ARRAY



NOTES: A. All linear dimensions are in millimeters.

- B. This drawing is subject to change without notice.
- C. NanoStar \mathbf{M} package configuration.
- D. This package is tin-lead (SnPb). Refer to the 5 YZP package (drawing 4204741) for lead-free.

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