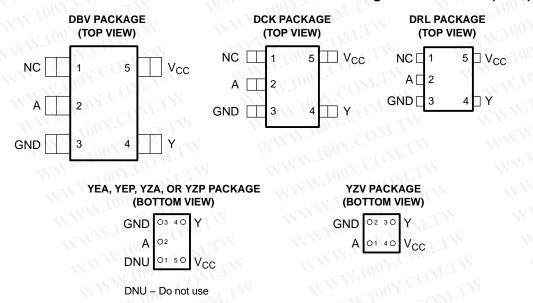


FEATURES

- 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 4.6 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 Schmitt-trigger inverter is designed for 1.65-V to 5.5-V V_{CC} operation.

The SN74LVC1G14 device contains one inverter and performs the Boolean function $Y = \overline{A}$. The device functions as an independent inverter, but because of Schmitt action, it may have different input threshold levels for positive-going (V_{T_+}) and negative-going (V_{T_-}) signals.

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, NanoFree are trademarks of Texas Instruments.

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ORDERING INFORMATION

T _A	PACKAGE ⁽¹⁾	TOON TO	ORDERABLE PART NUMBER	TOP-SIDE MARKING (2)
MMM.	NanoStar™ – WCSP (DSBGA) 0.17-mm Small Bump – YEA	TW. 100Y.C	SN74LVC1G14YEAR	1001.CON.TW
	NanoFree™ – WCSP (DSBGA) 0.17-mm Small Bump – YZA (Pb-free)	Reel of 3000	SN74LVC1G14YZAR	CE Y COM.TW
	NanoStar™ – WCSP (DSBGA) 0.23-mm Large Bump – YEP	Reel of 3000	SN74LVC1G14YEPR	W.Tolay.com.
–40°C to 85°C	NanoFree™ – WCSP (DSBGA) 0.23-mm Large Bump – YZP (Pb-free)	WWW.100	SN74LVC1G14YZPR	M.M.Too.Y.COM.
-40°C to 85°C	NanoFree™ – WCSP (DSBGA) 0.23-mm Large Bump – YZV (Pb-free)	Reel of 3000	SN74LVC1G14YZVR	CF 100
	SOT (SOT-23) – DBV	Reel of 3000	SN74LVC1G14DBVR	014
	SOT (SOT-23) – DBV	Reel of 250	SN74LVC1G14DBVT	C14_
	00T (00 70) DOV	Reel of 3000	SN74LVC1G14DCKR	OF JANN. 100
	SOT (SC-70) – DCK	Reel of 250	SN74LVC1G14DCKT	CF_\\\\
	SOT (SOT-553) – DRL	Reel of 4000	SN74LVC1G14DRLR	CF_

- (1) Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.
- (2) DBV/DCK/DRL: The actual top-side marking has one additional character that designates the assembly/test site.
 YEA/YEP, YZA/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).
 YZV: The actual top-side marking is on two lines. Line 1 has four characters to denote year, month, day, and assembly/test site. Line 2 has two characters which show the family and function code. Pin 1 identifier indicates solder-bump composition (1 = SnPb, = Pb-free).

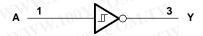
FUNCTION TABLE

INPUT A	OUTPUT Y
H	L
MY.CZ	H

LOGIC DIAGRAM (POSITIVE LOGIC)
(DBV, DCK, DRL, YEA, YEP, YZA, and YZP Package)



LOGIC DIAGRAM (POSITIVE LOGIC) (YZV Package)





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Absolute Maximum Ratings⁽¹⁾

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

	MM. In COM.	MMM. TOWN.COM.	MIN	MAX	UNIT
V_{CC}	Supply voltage range	W.IO. COM.	-0.5	6.5	V
VI	Input voltage range ⁽²⁾	M. 1001. CONT.	-0.5	6.5	V
Vo	Voltage range applied to any output in the	high-impedance or power-off state ⁽²⁾	-0.5	6.5	V
Vo	Voltage range applied to any output in the	high or low state ⁽²⁾⁽³⁾	-0.5	V _{CC} + 0.5	V
I _{IK}	Input clamp current	V ₁ < 0		– 50	mA
I _{OK}	Output clamp current	tput clamp current $V_0 < 0$			mA
Io	Continuous output current	MAA	±50	mA	
	Continuous current through V _{CC} or GND	N WWW. TOOK COME		±100	mA
	M. 100 1. COM. I.	DBV package	- X1	206	T CO
		DCK package		252	
0	Deckage thermal impedance (4)	DRL package	142 154		0C/M
θ_{JA}	Package thermal impedance (4)	YEA/YZA package			°C/W
		YEP/YZP package		132	
		YZV package		123	
T _{stg}	Storage temperature range	TW WWW. ON. CO. TV	-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⁾

	M.100 2 COM	CON CON	MIN MAX	UNIT
.,	Complex selfens	Operating	1.65 5.5	V/
V_{CC}	Supply voltage	Data retention only	1.5	V
VI	Input voltage	M. WWW.	0 5.5	V
Vo	Output voltage	OW.	0 V _{cc}	V
	WW. 21100X.C	V _{CC} = 1.65 V	-4	N.
		V _{CC} = 2.3 V	-8	
I_{OH}	High-level output current	COM	-16	mA
		V _{CC} = 3 V	-24	
		V _{CC} = 4.5 V	-32	
	WWW	V _{CC} = 1.65 V	4	N.
		V _{CC} = 2.3 V	8	
I_{OL}	Low-level output current	ONT ON THE	16	mA
		V _{CC} = 3 V	24	
		V _{CC} = 4.5 V	32	
T _A	Operating free-air temperature	N.IV CONT.	-40 85	°C

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)

PARAMETER	TEST CONDITIONS	V _{cc}	MIN TYP(1) MAX	UNIT
1.111.1	DO TOM. T. CO	1.65 V	0.79 1.16	1.
V_{T+}	100X.COM.TW WW. 100X.C	2.3 V	1.11 1.56	
Positive-going input threshold	ON COM THE WINN TOOK C	3 V	1.5 1.87	V
voltage	勝 特 力 材 料 886-3-5753170	4.5 V	2.16 2.74	
	胜特力电子(上海) 86-21-54151736	5.5 V	2.61 3.33	
MW		1.65 V	0.39 0.62	Mon
V_{T-}	胜特力电子(深圳) 86-755-83298787	2.3 V	0.58 0.87	
Negative-going nput threshold	Http://www. 100y. com. tw	- C 3 V	0.84 1.14	(\mathbf{v})
oltage	W.100 . COM. I	4.5 V	1.41 1.79	
	MIN TOOK CO. T.T.M. WWW.	5.5 V	1.87 2.29	
	MINN, COM, TW	1.65 V	0.37 0.62	OYL
ΔV_{T}	WW.100 COM.	2.3 V	0.48 0.77	
-lysteresis	steresis		0.56 0.87	V
$V_{T+} - V_{T-}$		4.5 V	0.71 1.04	
	MAM. TO COM. THE WAY	5.5 V	0.71 1.11	
$I_{OL} = -100 \mu A$		1.65 V to 4.5 V	V _{CC} - 0.1	M.r.
	$I_{OL} = -4 \text{ mA}$	1.65 V	1.2	
	$I_{OL} = -8 \text{ mA}$	2.3 V	1.9	1 1
√ _{OH}	$I_{OL} = -16 \text{ mA}$	WW.	2.4	V
	$I_{OL} = -24 \text{ mA}$	3 V	2.3	
	$I_{OL} = -32 \text{ mA}$	4.5 V	3.8	
	$I_{OL} = 100 \mu\text{A}$	1.65 V to 4.5 V	0.1	MAA
	I _{OL} = 4 mA	1.65 V	0.45	
	I _{OL} = 8 mA	2.3 V	0.3	- T
/ _{OL}	I _{OL} = 16 mA	W	0.4	V
	I _{OL} = 24 mA	3 V	0.55	
	I _{OL} = 32 mA	4.5 V	0.55	
A input	V _I = 5.5 V or GND	0 to 5.5 V	±5	μΑ
off	V_1 or $V_0 = 5.5 \text{ V}$	0	±10	μΑ
CC	$V_I = 5.5 \text{ V or GND}, \qquad I_O = 0$	1.65 V to 5.5 V	10	<u>.</u> μΑ
η ^{CC}	One input at V_{CC} – 0.6 V, Other inputs at V_{CC} or GND	3 V to 5.5 V	500	μA
C _i	V _I = V _{CC} or GND	3.3 V	4.5	pF

⁽¹⁾ All typical values are at $V_{CC} = 3.3 \text{ V}$, $T_A = 25^{\circ}\text{C}$.

Switching Characteristics over recommended operating free-air temperature range, $C_L = 15 \text{ pF}$ (unless otherwise noted) (see Figure 1)

UNIT	5 V	± 0.	3 V	$V_{CC} = \pm 0.$		$V_{CC} = \pm 0.$	1.8 V 5 V	V _{CC} = ± 0.1	TO	FROM	PARAMETER
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	(OUTPUT)	(INPUT)	(INPUT)
ns	4.4	0.9	4.6	1.5	5.5	1.6	9.9	2.8	Υ	А	t _{pd}
_					1	-11		~115	Y	А	t _{pd}



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Switching Characteristics

over recommended operating free-air temperature range, C₁ = 30 pF or 50 pF (unless otherwise noted) (see Figure 2)

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PARAMETER	FROM	TO	V _{CC} = 1.8 V ± 0.15 V	1.7	V _{CC} = ± 0.	2.5 V 2 V	V _{CC} = ± 0.	3.3 V 3 V	V _{CC} = ± 0.	= 5 V 5 V	UNIT
M.M. TOO X.C.(INP	(INPUT)	(OUTPUT)	MIN MA	X	MIN	MAX	MIN	MAX	MIN	MAX	
t _{pd}	COA	Y	3.8 1	1	2	6.5	1.8	5.5	1.2	5	ns

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Operating Characteristics

DADAMETER	TEST CONDITIONS	V _{CC} = 1.8 V	$V_{CC} = 2.5 \text{ V}$	$V_{CC} = 3.3 \text{ V}$	$V_{CC} = 5 V$	UNIT
PARAMETER	TEST CONDITIONS	TYP	TYP	TYP 🔨	TYP	UNIT
Power dissipation capacitance	f = 10 MHz	20	21	22	25	pF

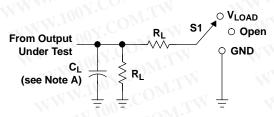
WWW.100Y.COM.TW 勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-54151736 胜特力电子(深圳) 86-755-83298787 WWW.100Y.COM.TW Http://www. 100y. com. tw WWW.100Y.COM.TW

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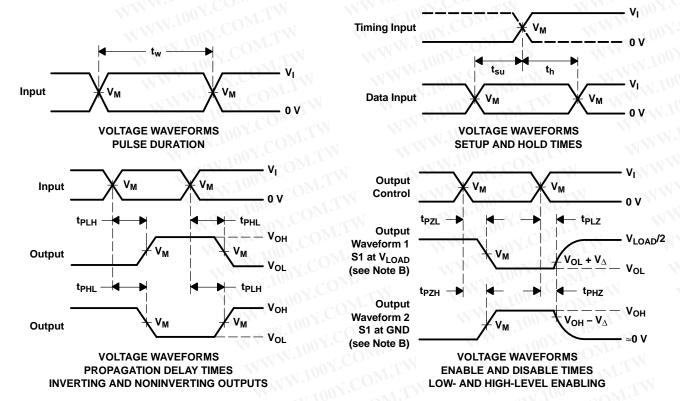
PARAMETER MEASUREMENT INFORMATION



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

LOAD CIRCUIT

1100 Y.	INF	PUTS	M. A.	V 100 1			1
V _{CC}	VI	t _r /t _f	V _M	V _M V _{LOAD}	CL	RL	V_{Δ}
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	Vcc	≤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 M 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



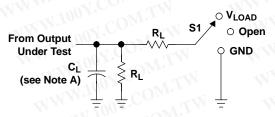
NOTES: A. C_L includes probe and jig capacitance.

- 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_O = 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 1. Load Circuit and Voltage Waveforms



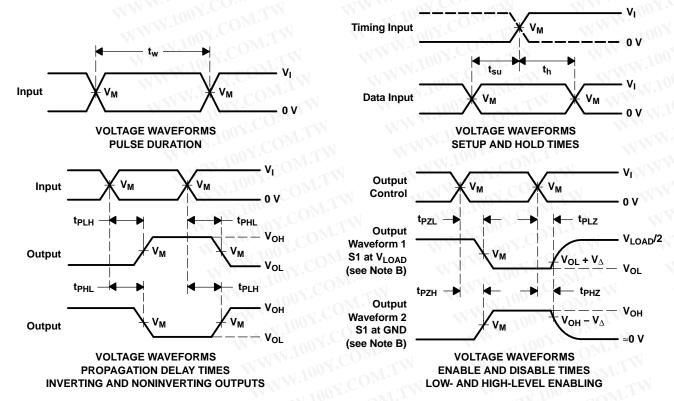
PARAMETER MEASUREMENT INFORMATION



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

LOAD CIRCUIT

11007.	INF	PUTS	W	7007.	OM_{JJ}	-	
V _{CC}	VI	t _r /t _f	V _M	V _{LOAD}	CL	RL	V_{Δ}
1.8 V ± 0.15 V	V _{CC}	≤2 ns	V _{CC} /2	2×V _{CC}	30 pF	1 kΩ	0.15 V
2.5 V \pm 0.2 V	Vcc	≤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, $Z_O = 50 \ \Omega$.
- 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 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)
SN74LVC1G14DBVR	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1G14DBVRE4	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1G14DBVRG4	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1G14DBVT	ACTIVE	SOT-23	DBV	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1G14DBVTE4	ACTIVE	SOT-23	DBV	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1G14DCKR	ACTIVE	SC70	DCK	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1G14DCKRE4	ACTIVE	SC70	DCK	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1G14DCKRG4	ACTIVE	SC70	DCK	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1G14DCKT	ACTIVE	SC70	DCK	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1G14DCKTE4	ACTIVE	SC70	DCK	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1G14DCKTG4	ACTIVE	SC70	DCK	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1G14DRLR	ACTIVE	SOP	DRL	5	4000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1G14DRLRG4	ACTIVE	SOP	DRL	5	4000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1G14YEAR	NRND	WCSP	YEA	5	3000	TBD	SNPB	Level-1-260C-UNLIM
SN74LVC1G14YEPR	NRND	WCSP	YEP	5	3000	TBD	SNPB	Level-1-260C-UNLIM
SN74LVC1G14YZAR	NRND	WCSP	YZA	5	3000	Green (RoHS & no Sb/Br)	SNAGCU	Level-1-260C-UNLIM
SN74LVC1G14YZPR	ACTIVE	WCSP	YZP	5	3000	Green (RoHS & no Sb/Br)	SNAGCU	Level-1-260C-UNLIM
SN74LVC1G14YZTR	ACTIVE	DSBGA	YZT	4	3000	Green (RoHS & no Sb/Br)	SNAGCU	Level-1-260C-UNLIM
SN74LVC1G14YZVR	ACTIVE	DSBGA	YZV	4	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

⁽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.



PACKAGE OPTION ADDENDUM

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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)

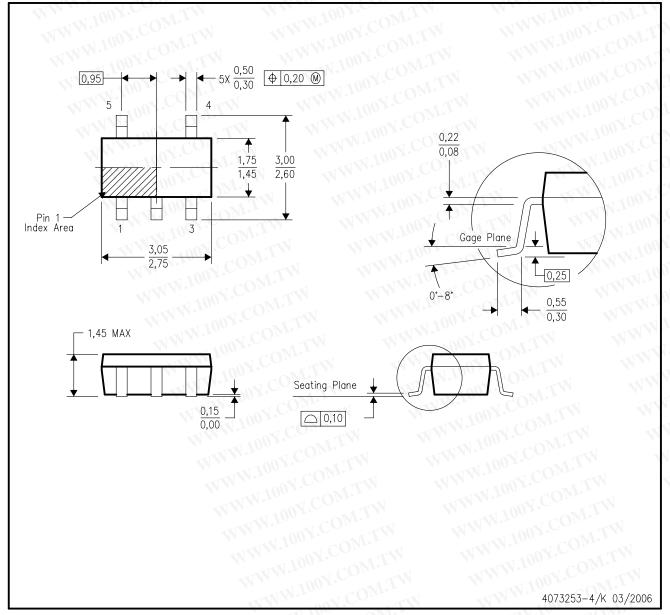
(3) MSL, Peak Temp. -- The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.

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DBV (R-PDSO-G5)

PLASTIC SMALL-OUTLINE PACKAGE



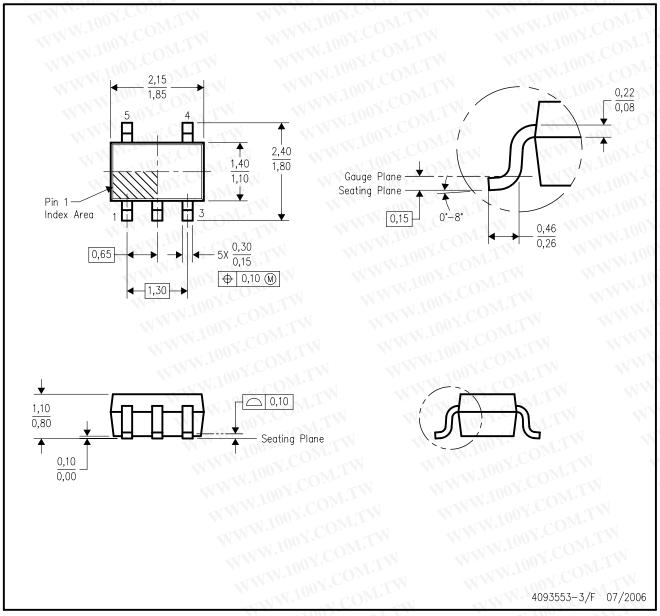
NOTES:

- 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



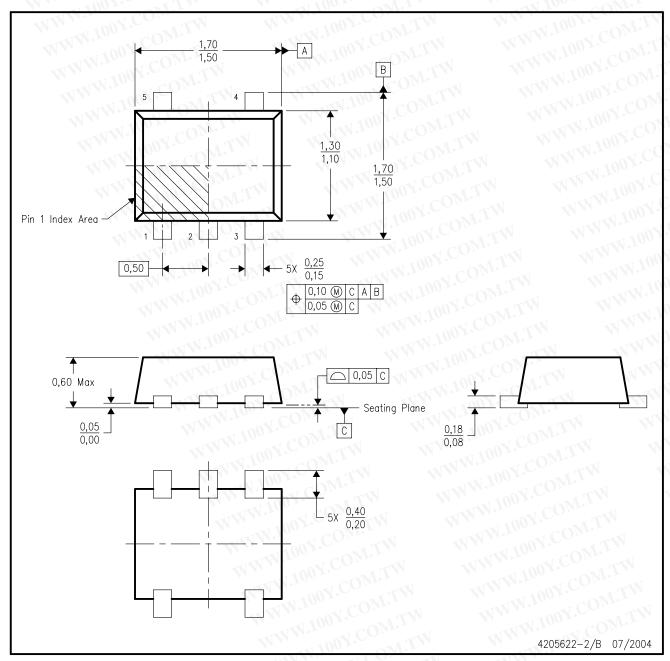
NOTES: A. All linear dimensions are in millimeters.

- 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



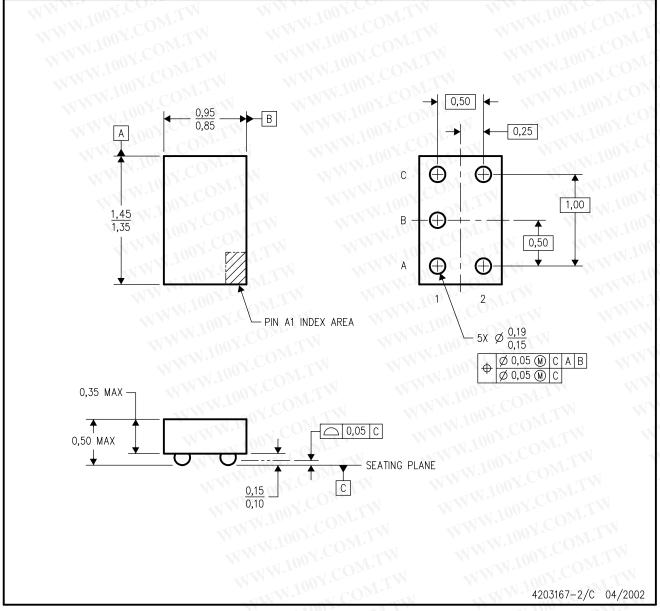
NOTES:

- 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.

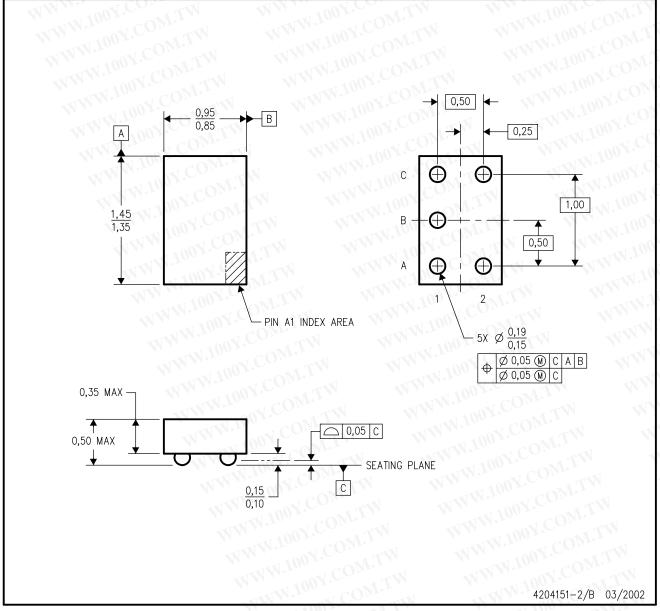
- B. This drawing is subject to change without notice.
- C. NanoStar™ package configuration.
- D. Package complies to JEDEC MO-211 variation EA.
- E. This package is tin-lead (SnPb). Refer to the 5 YZA package (drawing 4204151) for lead-free.

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™ 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).

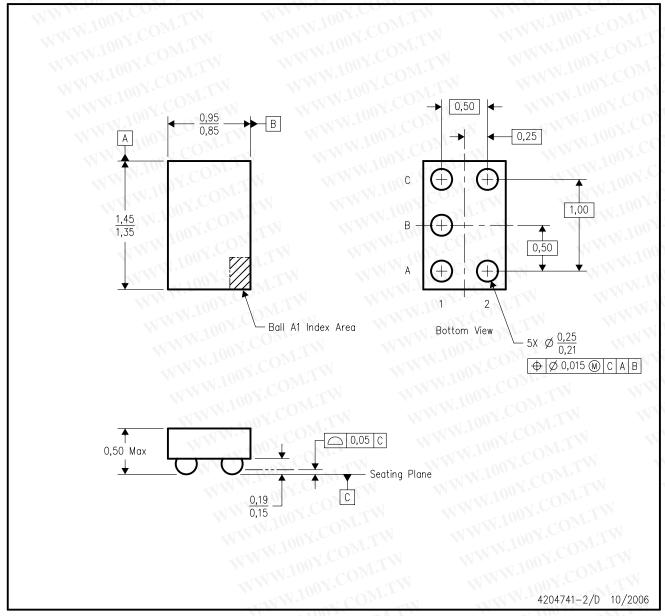
勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-54151736 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

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.

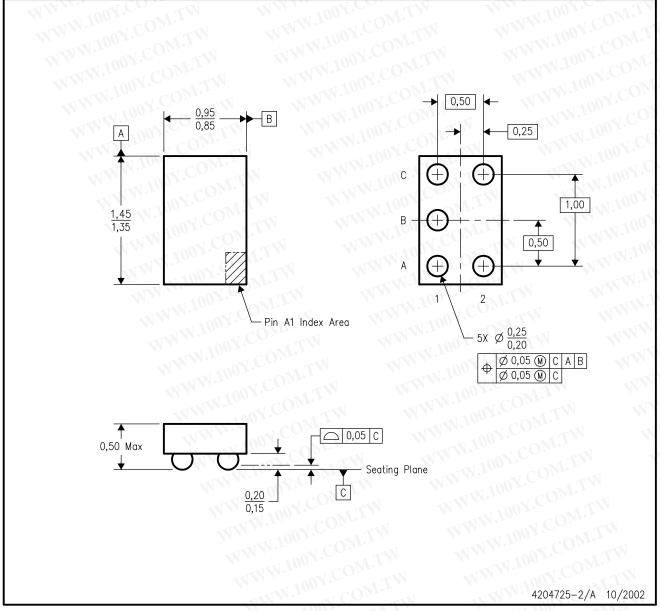
- B. This drawing is subject to change without notice.
- C. NanoFree™ package configuration.
- D. This package is lead—free. Refer to the 5 YEP package (drawing 4204725) for tin—lead (SnPb).

NanoFree is a trademark of Texas Instruments.



YEP (R-XBGA-N5)

DIE-SIZE BALL GRID ARRAY



NOTES: A. All linear dimensions are in millimeters.

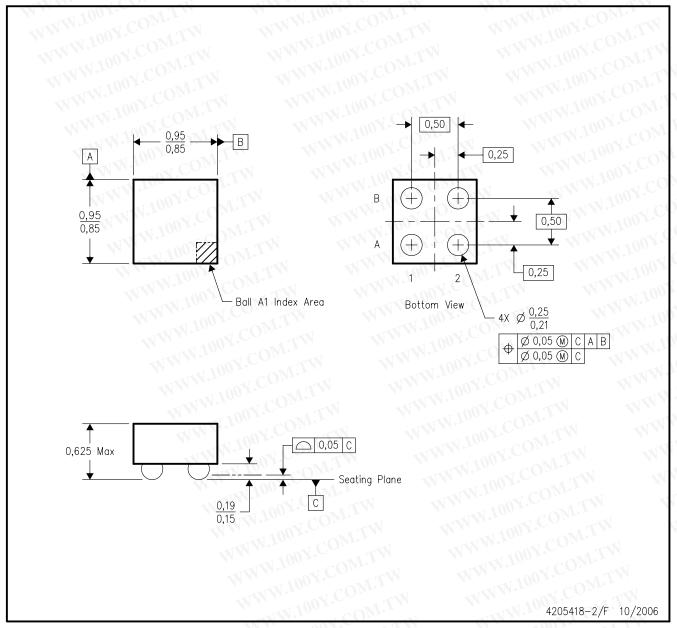
- B. This drawing is subject to change without notice.
- C. NanoStar™ package configuration.
- D. This package is tin-lead (SnPb). Refer to the 5 YZP package (drawing 4204741) for lead-free.

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YZT (S-XBGA-N4)

DIE-SIZE BALL GRID ARRAY



NOTES:

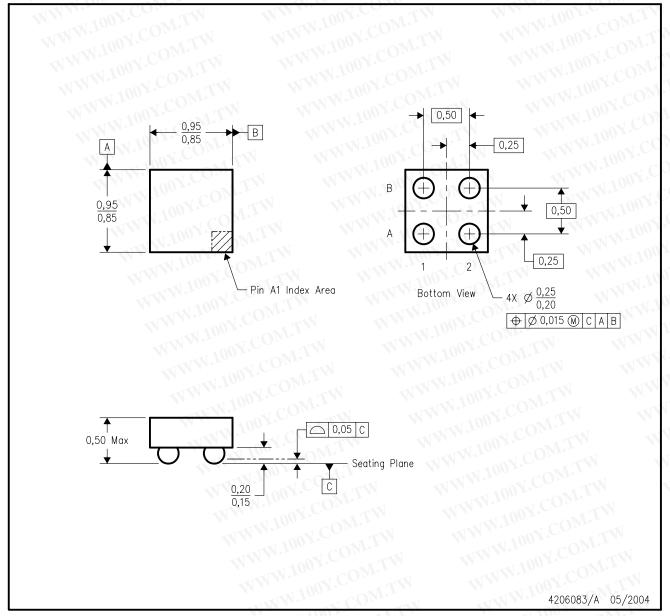
- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
- C. NanoFree™ package configuration.
- D. This package is Lead-free. Refer to the 4 YET package (drawing 4205421) for tin-lead (SnPb).

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YZV (S-XBGA-N4)

DIE-SIZE BALL GRID ARRAY



NOTES: A. All linear dimensions are in millimeters.

- B. This drawing is subject to change without notice.
- C. NanoFree™ package configuration.
- D. This package contains lead-free balls. Refer to the 4 YEV package (drawing 4206082) for tin-lead (SnPb) balls.

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