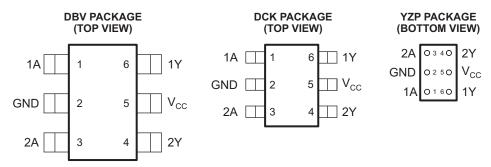
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DUAL SCHMITT-TRIGGER BUFFER

FEATURES

- Available in the Texas Instruments NanoFree[™] Package
- Supports 5-V V_{CC} Operation
- Inputs Accept Voltages to 5.5 V
- Max t_{pd} of 5.4 ns at 3.3 V
- Low Power Consumption, 10-μA Max I_{CC}
- ±24-mA Output Drive at 3.3 V
- Typical V_{OLP} (Output Ground Bounce)
 <0.8 V at V_{CC} = 3.3 V, T_A = 25°C

- Typical V_{OHV} (Output V_{OH} Undershoot)
 >2 V at V_{CC} = 3.3 V, T_A = 25°C
- 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)
 - 1000-V Charged-Device Model (C101)



See mechanical drawings for dimensions.

DESCRIPTION/ORDERING INFORMATION

This dual Schmitt-trigger buffer is designed for 1.65-V to 5.5-V V_{CC} operation.

The SN74LVC2G17 contains two buffers and performs the Boolean function Y = A. The device functions as two independent buffers, but because of Schmitt action, it may have different input threshold levels for positive-going (V_{T+}) and negative-going (V_{T-}) signals.

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.

M

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.



ORDERING INFORMATION

T _A	PACKAGE ⁽¹⁾⁽²⁾	ORDERABLE PART NUMBER	TOP-SIDE MARKING ⁽³⁾	
	NanoFree™ – WCSP (DSBGA) 0.23-mm Large Bump – YZP (Pb-free)	Reel of 3000	SN74LVC2G17YZPR	C7_
	COT (COT 22) DRV	Reel of 3000	SN74LVC2G17DBVR	C17
–40°C to 85°C	SOT (SOT-23) – DBV	Reel of 250	SN74LVC2G17DBVT	GI7_
	SOT (SC 70) DCV	Reel of 3000	SN74LVC2G17DCKR	C7
	SOT (SC-70) – DCK	Reel of 250	SN74LVC2G17DCKT	C7_

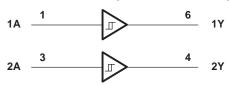
- (1) For the most current package and ordering information, see the Package Option Addendum at the end of this document, or see the TI web site at www ti com
- (2) Package drawings, thermal data, and symbolization are available at www.ti.com/packaging.
- (3) DBV/DCK: The actual top-side marking has one additional character that designates the wafer fab/assembly site.

 YZP: The actual top-side marking has three preceding characters to denote year, month, and sequence code, and one following character to designate the wafer fab/assembly site. Pin 1 identifier indicates solder-bump composition (1 = SnPb, = Pb-free).

FUNCTION TABLE (EACH INVERTER)

INPUT A	OUTPUT Y
Н	Н
L	L

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 Input voltage range (2) Voltage range applied to any output in the high-impedance or power-off state (2) Voltage range applied to any output in the high or low state (2) (3) Input clamp current $V_1 < 0$ Output clamp current $V_0 < 0$ Continuous output current Continuous current through V_{CC} or GND Package thermal impedance (4) DBV package DCK package YZP package Junction temperature under bias Storage temperature range		-0.5	6.5	V	
VI	Input voltage range (2)		-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 range applied to any output in the high-impedance or power-off state $^{(2)}$ to lamp current $V_{\rm I} < 0$ to clamp current $V_{\rm O} < 0$ to success output current through $V_{\rm CC}$ or GND				
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 GN	D		±100	mA	
		DBV package		165		
θ_{JA}	Package thermal impedance (4)	DCK package		259	°C/W	
	Continuous current through V _{CC} or GND Package thermal impedance ⁽⁴⁾	YZP package		123		
TJ	Junction temperature under bias	YZP package 123 erature under bias 150				
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 negative-voltage and output 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_{CC}	Supply voltage	Operating	1.65	5.5	V	
V_{I}	Input voltage	·	0	5.5	V	
Vo	Output voltage		0	V_{CC}	V	
		V _{CC} = 1.65 V		-4		
I _{OH}		$V_{CC} = 2.3 \text{ V}$		-8	mA	
	High-level output current	V 2V		-16		
		V _{CC} = 3 V		-24		
		V _{CC} = 4.5 V		-32		
		V _{CC} = 1.65 V		4		
		$V_{CC} = 2.3 \text{ V}$		8		
I_{OL}	Low-level output current	V 2V		16	mA	
		$V_{CC} = 3 V$		24		
		$V_{CC} = 4.5 \text{ V}$		32		
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)

PARAMETER	TEST CONDITIONS	V _{cc}	MIN TY	P ⁽¹⁾ MAX	UNIT				
		1.65 V	0.7	1.4					
V _{T+}		2.3 V	1	1.7					
Positive-going input		3 V	1.3	2.0	V				
threshold voltage		4.5 V	1.9	3.1					
		5.5 V	2.2	3.7					
		1.65 V	0.3	0.7					
V _T _		2.3 V	0.4	1					
Negative-going input		3 V	0.8	1.3	V				
threshold voltage		4.5 V	1.1	2					
		5.5 V	1.4	2.5					
		1.65 V	0.3	0.8					
ΔV_{T}		2.3 V	0.4	0.9					
Hysteresis		3 V	0.4	1.1	V				
$(V_{T+} - V_{T-})$		4.5 V	0.6	1.3					
		5.5 V	0.7	1.4					
	$I_{OH} = -100 \mu\text{A}$	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						
V _{OH}	I _{OH} = -16 mA		2.4		V				
	I _{OH} = -24 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					
.,	I _{OL} = 8 mA	2.3 V		0.3	.,				
V _{OL}	I _{OL} = 16 mA	- 11		0.4	V				
	I _{OL} = 24 mA	3 V		0.55					
	I _{OL} = 32 mA	4.5 V		0.55					
I _I A input	V _I = 5.5 V or GND	0 to 5.5 V		±5	μΑ				
l _{off}	V _I or V _O = 5.5 V	0		±10	μΑ				
I _{CC}	$V_1 = 5.5 \text{ V or GND}, \qquad I_0 = 0$	1.65 V to 5.5 V		10	<u>.</u> μΑ				
ΔI _{CC}	One input at $V_{CC} - 0.6 \text{ V}$, Other inputs at V_{CC} or GND	3 V to 5.5 V		500	μΑ				
C _i	V _I = 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 (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
	(INPUT)	(001F01)	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
t _{pd}	Α	Υ	3.9	9.3	1.9	5.7	2.2	5.4	1.5	4.3	ns

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Operating Characteristics

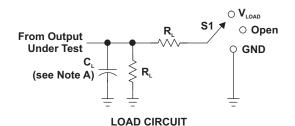
 $T_A = 25^{\circ}C$

	PARAMETER	TEST CONDITIONS	V _{CC} = 1.8 V	V _{CC} = 2.5 V	V _{CC} = 3.3 V	$V_{CC} = 5 V$	UNIT
	PARAMETER	TEST CONDITIONS	TYP	TYP	TYP	TYP	UNIT
C _{pd}	Power dissipation capacitance	f = 10 MHz	17	18	19	21	pF

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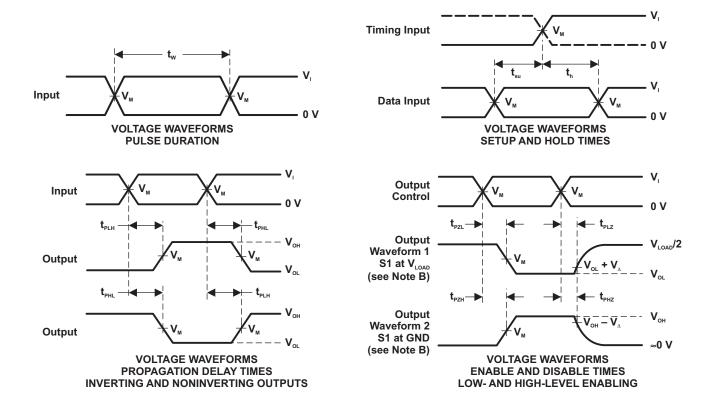


PARAMETER MEASUREMENT INFORMATION



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

V	INPUTS		.,	.,		_	.,
V _{cc}	V,	t,/t,	V _M	V _{LOAD}	C ^r	R _⊾	V _A
1.8 V ± 0.15 V	V _{cc}	≤2 ns	V _{cc} /2	2 × V _{cc}	30 pF	1 k Ω	0.15 V
2.5 V ± 0.2 V	V_{cc}	≤2 ns	V _{cc} /2	2 × V _{cc}	30 pF	500 Ω	0.15 V
3.3 V ± 0.3 V	3 V	≤2.5 ns	1.5 V	6 V	50 pF	500 Ω	0.3 V
5 V ± 0.5 V	V_{cc}	≤2.5 ns	V _{cc} /2	2 × V _{cc}	50 pF	500 Ω	0.3 V



NOTES: A. C, 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_{\odot} = 50 Ω .
- D. The outputs are measured one at a time, with one transition per measurement.
- E. t_{PLZ} and \dot{t}_{PHZ} are the same as t_{dis} .
- F. t_{PZL} and t_{PZH} are the same as t_{en} .
- G. $t_{\mbox{\tiny PLH}}$ and $t_{\mbox{\tiny PHL}}$ are the same as $t_{\mbox{\tiny pd}}.$
- H. All parameters and waveforms are not applicable to all devices.

Figure 1. Load Circuit and Voltage Waveforms

PACKAGE OPTION ADDENDUM

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PACKAGING INFORMATION

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	e Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
SN74LVC2G17DBVR	ACTIVE	SOT-23	DBV	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC2G17DBVRE4	ACTIVE	SOT-23	DBV	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC2G17DBVRG4	ACTIVE	SOT-23	DBV	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC2G17DBVT	ACTIVE	SOT-23	DBV	6	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC2G17DBVTE4	ACTIVE	SOT-23	DBV	6	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC2G17DBVTG4	ACTIVE	SOT-23	DBV	6	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC2G17DCKR	ACTIVE	SC70	DCK	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC2G17DCKRE4	ACTIVE	SC70	DCK	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC2G17DCKRG4	ACTIVE	SC70	DCK	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC2G17DCKT	ACTIVE	SC70	DCK	6	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC2G17DCKTE4	ACTIVE	SC70	DCK	6	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC2G17DCKTG4	ACTIVE	SC70	DCK	6	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC2G17YZPR	ACTIVE	DSBGA	YZP	6	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 SN74LVC2G17:

• Automotive: SN74LVC2G17-Q1

Enhanced Product: SN74LVC2G17-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





A0	Dimension designed to accommodate the component width
B0	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
SN74LVC2G17DBVR	SOT-23	DBV	6	3000	178.0	9.0	3.23	3.17	1.37	4.0	8.0	Q3
SN74LVC2G17DCKR	SC70	DCK	6	3000	178.0	9.0	2.4	2.5	1.2	4.0	8.0	Q3
SN74LVC2G17DCKR	SC70	DCK	6	3000	180.0	9.2	2.24	2.34	1.22	4.0	8.0	Q3
SN74LVC2G17DCKT	SC70	DCK	6	250	180.0	9.2	2.24	2.34	1.22	4.0	8.0	Q3
SN74LVC2G17YZPR	DSBGA	YZP	6	3000	178.0	9.2	1.02	1.52	0.63	4.0	8.0	Q1

PACKAGE MATERIALS INFORMATION

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*All dimensions are nominal

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Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74LVC2G17DBVR	SOT-23	DBV	6	3000	180.0	180.0	18.0
SN74LVC2G17DCKR	SC70	DCK	6	3000	180.0	180.0	18.0
SN74LVC2G17DCKR	SC70	DCK	6	3000	205.0	200.0	33.0
SN74LVC2G17DCKT	SC70	DCK	6	250	205.0	200.0	33.0
SN74LVC2G17YZPR	DSBGA	YZP	6	3000	220.0	220.0	35.0

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.



DCK (R-PDSO-G6)

PLASTIC SMALL-OUTLINE PACKAGE

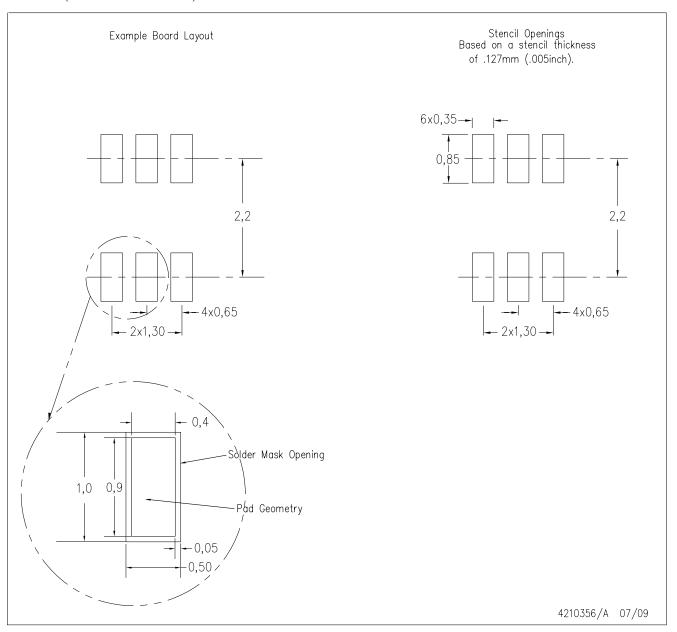


NOTES: A. All linear dimensions are in millimeters.

- 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)



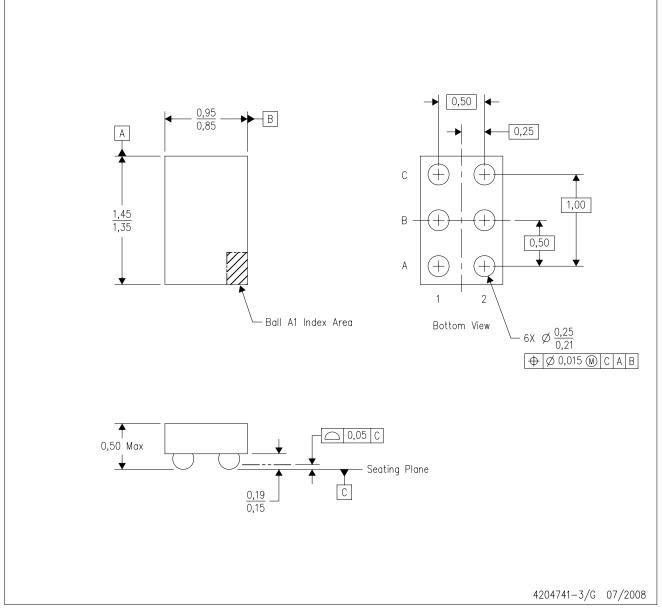
NOTES:

- 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.



YZP (R-XBGA-N6)

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 6 YEP package (drawing 4204725) for tin-lead (SnPb).

NanoFree is a trademark of Texas Instruments.



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		Wireless	www.ti.com/wireless-apps