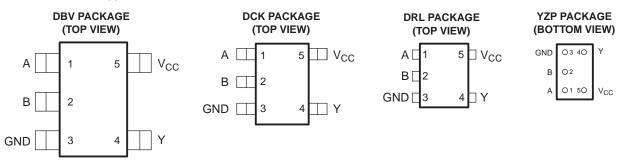


FEATURES

- Available in the Texas Instruments NanoFree[™] Package
- Low Static-Power Consumption; $I_{cc} = 0.9 - \mu A Max$
- Low Dynamic-Power Consumption; C_{pd} = 4.3 pF Typ at 3.3 V
- Low Input Capacitance; C₁ = 1.5 pF Typ
- Low Noise Overshoot and Undershoot <10% of V_{CC}
- Ioff Supports Partial-Power-Down Mode Operation
- Input Hysteresis Allows Slow Input Transition and Better Switching Noise Immunity at the Input
 - (V_{hvs} = 250 mV Typ at 3.3 V)
- Wide Operating V_{CC} Range of 0.8 V to 3.6 V

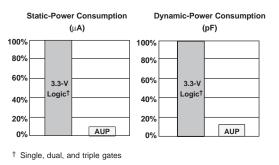
- **Optimized for 3.3-V Operation**
- 3.6-V I/O Tolerant to Support Mixed-Mode Signal Operation
- t_{pd} = 4.6 ns Max at 3.3 V
- Suitable for Point-to-Point Applications
- Latch-Up Performance Exceeds 100 mA Per JESD 78, Class II
- ESD Performance Tested Per JESD 22
 - 2000-V Human-Body Model (A114-B, Class II)
 - 200-V Machine Model (A115-A)
 - 1000-V Charged-Device Model (C101)
- ESD Protection Exceeds ±5000 V With **Human-Body Model**



See mechanical drawings for dimensions.

DESCRIPTION/ORDERING INFORMATION

The AUP family is TI's premier solution to the industry's low-power needs in battery-powered portable applications. This family ensures a very low static and dynamic power consumption across the entire V_{CC} range of 0.8 V to 3.6 V, resulting in increased battery life. This product also maintains excellent signal integrity (see Figure 1 and Figure 2).





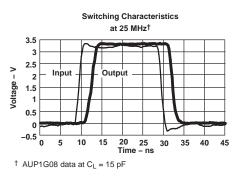


Figure 2. Excellent Signal Integrity

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.

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SN74AUP1G32 LOW-POWER SINGLE 2-INPUT POSITIVE-OR GATE

SCES580D-JUNE 2004-REVISED JANUARY 2007

DESCRIPTION/ORDERING INFORMATION (CONTINUED)

This single 2-input positive-OR gate performs the Boolean function Y = A + B or $Y = \overline{\overline{A} \cdot \overline{B}}$ in positive logic.

NanoFree[™] package technology is a major breakthrough in IC packaging concepts, using the die as the package.

TRUMENTS www.ti.com

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.

ORDERING INFORMATION

T _A	PACKAGE ⁽¹⁾		ORDERABLE PART NUMBER	TOP-SIDE MARKING ⁽²⁾
	NanoFree™ – WCSP (DSBGA) 0.23-mm Large Bump – YZP (Pb-free)	Reel of 3000	SN74AUP1G32YZPR	HG_
		Reel of 3000	SN74AUP1G32DBVR	1122
–40°C to 85°C	SOT (SOT-23) – DBV	Reel of 250	SN74AUP1G32DBVT	- H32_
		Reel of 3000	SN74AUP1G32DCKR	110
	SOT (SC-70) – DCK	Reel of 250	SN74AUP1G32DCKT	HG_
	SOT (SOT-553) – DRL	Reel of 4000	SN74AUP1G32DRLR	HG_

(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. 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).

INPU	INPUTS			
Α	В	Y		
L	L	L		
L	Н	Н		
Н	L	н		
н	Н	Н		

FUNCTION TABLE

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	4.6	V
VI	Input voltage range ⁽²⁾		-0.5	4.6	V
Vo	Voltage range applied to any output in the high-impedance or power-off state ⁽²⁾			4.6	V
Vo	Voltage range applied to any output in the	high or low state ⁽²⁾	-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			±20	mA
	Continuous current through V_{CC} or GND			±50	mA
		DBV package		206	
0	Declars thermal impodence (3)	DCK package		252	°C/W
θ_{JA}	Package thermal impedance ⁽³⁾	DRL package		142	°C/W
		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 package thermal impedance is calculated in accordance with JESD 51-7.

SN74AUP1G32 LOW-POWER SINGLE 2-INPUT POSITIVE-OR GATE

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Recommended Operating Conditions⁽¹⁾

			MIN	MAX	UNIT
V _{CC}	Supply voltage		0.8	3.6	V
		$V_{CC} = 0.8 V$	V _{CC}		
V	High-level input voltage	$V_{CC} = 1.1 \text{ V to } 1.95 \text{ V}$	$0.65 imes V_{CC}$		V
V _{IH}	nigh-level input voltage	V_{CC} = 2.3 V to 2.7 V	1.6		v
		$V_{CC} = 3 V \text{ to } 3.6 V$	2		
		$V_{CC} = 0.8 V$		0	
V	Low-level input voltage	$V_{CC} = 1.1 \text{ V to } 1.95 \text{ V}$	($0.35 \times V_{CC}$	V
V _{IL}	Low-level input voltage	V_{CC} = 2.3 V to 2.7 V		0.7	v
		$V_{CC} = 3 V \text{ to } 3.6 V$		0.9	
VI	Input voltage		0	3.6	V
Vo	Output voltage		0	V _{CC}	V
	$V_{CC} = 0.8 V$		-20	μΑ	
		$V_{CC} = 1.1 V$		-1.1	
I (2)	Lich lovel output output	V _{CC} = 1.4 V		-1.7	
I _{OH} ⁽²⁾	High-level output current	V _{CC} = 1.65 V		-1.9	mA
		V _{CC} = 2.3 V		-3.1	
		V _{CC} = 3 V		-4	
		$V_{CC} = 0.8 V$		20	μA
		V _{CC} = 1.1 V		1.1	
I (2)	Low lovel entruit entruit	$V_{CC} = 1.4 V$		1.7	
$I_{OL}^{(2)}$	Low-level output current	V _{CC} = 1.65 V		1.9	mA
		V _{CC} = 2.3 V		3.1	
		V _{CC} = 3 V		4	
$\Delta t / \Delta v$	Input transition rise or fall rate	$V_{CC} = 0.8 V \text{ to } 1.95 V$		200	ns/V
T _A	Operating free-air temperature	·	-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.
Defined by the signal-integrity requirements and design-goal priorities



Electrical Characteristics

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

	TEST CONDITIONS	V	TA	= 25°C		T _A = −40°C	TO 85°C	UNIT		
PARAMETER			V _{cc}	MIN	ТҮР	MAX	MIN	MAX	UNI	
	I _{OH} = -20 μA		0.8 V to 3.6 V	V _{CC} - 0.1			V _{CC} – 0.1			
	I _{OH} = -1.1 mA		1.1 V	$0.75 imes V_{CC}$			$0.7 imes V_{CC}$			
	I _{OH} = -1.7 mA		1.4 V	1.11			1.03			
V	I _{OH} = -1.9 mA		1.65 V	1.32			1.3		V	
V _{OH}	I _{OH} = -2.3 mA		2.3 V	2.05			1.97		v	
	I _{OH} = -3.1 mA		2.3 V	1.9			1.85			
	I _{OH} = -2.7 mA		- 3 V	2.72			2.67			
	$I_{OH} = -4 \text{ mA}$			2.6			2.55			
	I _{OL} = 20 μA		0.8 V to 3.6 V			0.1		0.1		
	I _{OL} = 1.1 mA		1.1 V			$0.3 imes V_{CC}$		$0.3 imes V_{CC}$		
	I _{OL} = 1.7 mA		1.4 V			0.31		0.37		
V _{OL}	I _{OL} = 1.9 mA		1.65 V			0.31		0.35	V	
VOL	I _{OL} = 2.3 mA		2.3 V			0.31		0.33	v	
	I _{OL} = 3.1 mA		2.3 V			0.44		0.45		
	I _{OL} = 2.7 mA		- 3 V			0.31		0.33		
	I _{OL} = 4. mA		3V			0.44		0.45		
I _I A or B input	$V_I = GND$ to 3.6 V		0 V to 3.6 V			0.1		0.5	μA	
l _{off}	$V_{\rm I}$ or $V_{\rm O} = 0$ V to 3.6	6 V	0 V			0.2		0.6	μΑ	
ΔI_{off}	$V_{\rm I}$ or $V_{\rm O}$ = 0 V to 3.6	6 V	0 V to 0.2 V			0.2		0.6	μΑ	
I _{CC}	$V_I = GND \text{ or}$ (V_{CC} to 3.6 V)	I _O = 0	0.8 V to 3.6 V			0.5		0.9	μA	
ΔI_{CC}	$V_{\rm I} = V_{\rm CC} - 0.6 \ V^{(1)}$	$I_{O} = 0$	3.3 V			40		50	μA	
			0 V		1.5				~F	
Cl	$V_I = V_{CC}$ or GND		3.6 V		1.5				pF	
Co	V _O = GND		0 V		3				pF	

(1) One input at V_{CC} – 0.6 V, other input at V_{CC} or GND

Switching Characteristics

over recommended operating free-air temperature range, $C_L = 5 \text{ pF}$ (unless otherwise noted) (see Figure 3 and Figure 4)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{cc}	Т,	∖ = 25°C	;	T _A = -40 TO 850	O°C ℃	UNIT
		(001F01)		MIN	TYP	MAX	MIN	MAX	
		0.8 V		18					
			$1.2~\textrm{V}\pm0.1~\textrm{V}$	2.6	7.3	13.5	2.1	16.8	
	A	X	$1.5 \text{ V} \pm 0.1 \text{ V}$	1.4	5.2	9.1	0.9	11	
^t pd	t _{pd} A or B	Y	1.8 V ± 0.15 V	1	4.2	7	0.5	8.8	ns
			$2.5~\text{V}\pm0.2~\text{V}$	1	3	4.7	0.5	6	
			$3.3~\text{V}\pm0.3~\text{V}$	1	2.4	3.7	0.5	4.6	

SN74AUP1G32 LOW-POWER SINGLE 2-INPUT POSITIVE-OR GATE

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Switching Characteristics

over recommended operating free-air temperature range, $C_L = 10 \text{ pF}$ (unless otherwise noted) (see Figure 3 and Figure 4)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{cc}	Т,	ג = 25°C	;	T _A = -4 TO 85	°C ℃	UNIT				
	(INFUT)		MIN	TYP	MAX	MIN	MAX						
			0.8 V		21								
			X	X	X	$1.2~V\pm0.1~V$	1.5	8.5	15.4	1	18.4		
	A or D					Y	V	Y	Y	Y	$1.5~\text{V}\pm0.1~\text{V}$	1	6.2
lpd	t _{pd} A or B Y	ř	1.8 V ± 0.15 V	1	5	8.1	0.5	9.6	ns				
			$2.5~V\pm0.2~V$	1	3.6	5.5	0.5	6.6					
			$3.3~\textrm{V}\pm0.3~\textrm{V}$	1	2.9	4.4	0.5	5					

Switching Characteristics

over recommended operating free-air temperature range, $C_L = 15 \text{ pF}$ (unless otherwise noted) (see Figure 3 and Figure 4)

PARAMETER	FROM	TO	V _{cc}	Τ,	ג = 25°C		T _A = -40 TO 850		UNIT		
	(INPUT)	(OUTPUT)		MIN	TYP	MAX	MIN	MAX			
		X	0.8 V		24						
			$1.2~V\pm0.1~V$	3.6	9.9	17	3.1	21.1			
	A or D		N/	Y	V	$1.5~V\pm0.1~V$	2.3	7.2	11.5	1.8	13.9
^L pd	t _{pd} A or B Y	Ť	1.8 V ± 0.15 V	1.6	5.8	9.1	1.1	11.2	ns		
		$2.5~\textrm{V}\pm0.2~\textrm{V}$	1	4.3	6.2	0.5	7.8				
			$3.3~\textrm{V}\pm0.3~\textrm{V}$	1	3.4	5	0.5	6.2			

Switching Characteristics

over recommended operating free-air temperature range, $C_L = 30 \text{ pF}$ (unless otherwise noted) (see Figure 3 and Figure 4)

PARAMETER	FROM	TO	V _{cc}	Тŗ	ק = 25°C	;	T _A = -40 TO 850	D∘C ⊃C	UNIT			
	(INPUT)	(OUTPUT)		MIN	TYP	MAX	MIN	MAX				
			0.8 V		32.8							
		N N	X	V	$1.2~V\pm0.1~V$	4.9	13.1	21.6	4.4	26.7		
4	A or D				X	V	V	V	$1.5~V\pm0.1~V$	3.4	9.5	14.6
t _{pd}	t _{pd} A or B Y	Y	1.8 V ± 0.15 V	2.5	7.7	11.4	2	14.1	ns			
			$2.5~\textrm{V}\pm0.2~\textrm{V}$	1.8	5.7	7.9	1.3	9.9				
			$3.3~\text{V}\pm0.3~\text{V}$	1.5	4.7	6.4	1	7.8				

Operating Characteristics

 $T_A = 25^{\circ}C$

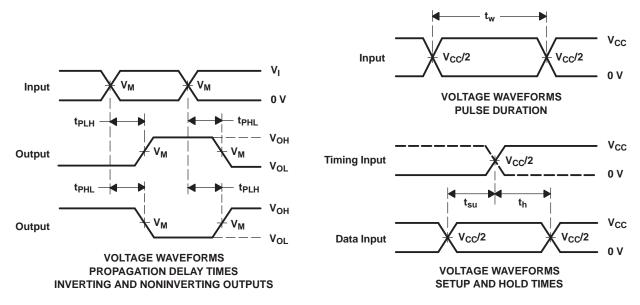
	PARAMETER	TEST CONDITIONS	V _{cc}	TYP	UNIT
		6 40 MUE	0.8 V	4.1	
			$1.2~\textrm{V}\pm0.1~\textrm{V}$	4.1	- 5
6			$1.5~\text{V}\pm0.1~\text{V}$	4.1	
C _{pd}	Power dissipation capacitance	f = 10 MHz	1.8 V ± 0.15 V	4.1	pF
			$2.5~\text{V}\pm0.2~\text{V}$	4.2	
			$3.3~\text{V}\pm0.3~\text{V}$	4.3	

PARAMETER MEASUREMENT INFORMATION (Propagation Delays, Setup and Hold Times, and Pulse Width)

From Output Under Test (see Note A) $\overline{C_L}$ $\overline{C_L}$ $1 M\Omega$

LOAD CIRCUIT

	V _{CC} = 0.8 V	V _{CC} = 1.2 V ± 0.1 V	V _{CC} = 1.5 V ± 0.1 V	V _{CC} = 1.8 V ± 0.15 V	V_{CC} = 2.5 V \pm 0.2 V	$\begin{array}{c} V_{CC} \texttt{=} \texttt{3.3 V} \\ \pm \texttt{0.3 V} \end{array}$
CL	5, 10, 15, 30 pF	5, 10, 15, 30 pF	5, 10, 15, 30 pF	5, 10, 15, 30 pF	5, 10, 15, 30 pF	5, 10, 15, 30 pF
V _M	V _{CC} /2	V _{CC} /2	V _{CC} /2	V _{CC} /2	V _{CC} /2	V _{CC} /2
VI	V _{CC}	V _{CC}	V _{CC}	V _{CC}	V _{CC}	V _{CC}



NOTES: A. C_L includes probe and jig capacitance.

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- B. All input pulses are supplied by generators having the following characteristics: PRR \leq 10 MHz, Z_O = 50 Ω , t_r/t_f = 3 ns.
- C. The outputs are measured one at a time, with one transition per measurement.
- D. t_{PLH} and t_{PHL} are the same as t_{pd} .
- E. All parameters and waveforms are not applicable to all devices.

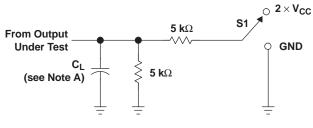
Figure 3. Load Circuit and Voltage Waveforms

SN74AUP1G32 LOW-POWER SINGLE 2-INPUT POSITIVE-OR GATE SCES580D-JUNE 2004-REVISED JANUARY 2007



PARAMETER MEASUREMENT INFORMATION

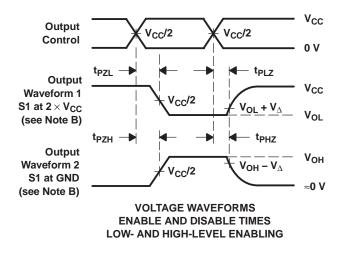
(Enable and Disable Times)



TEST	S1
t _{PLZ} /t _{PZL} t _{PHZ} /t _{PZH}	$2 \times V_{CC}$ GND

LOAD	CIRCUIT

	V _{CC} = 0.8 V	V _{CC} = 1.2 V ± 0.1 V	V _{CC} = 1.5 V ± 0.1 V	V _{CC} = 1.8 V ± 0.15 V	V _{CC} = 2.5 V ± 0.2 V	V _{CC} = 3.3 V ± 0.3 V
CL	5, 10, 15, 30 pF	5, 10, 15, 30 pF	5, 10, 15, 30 pF	5, 10, 15, 30 pF	5, 10, 15, 30 pF	5, 10, 15, 30 pF
VM	V _{CC} /2	V _{CC} /2	V _{CC} /2	V _{CC} /2	V _{CC} /2	V _{CC} /2
VI	V _{CC}	V _{CC}	V _{CC}	V _{CC}	V _{CC}	V _{CC}
V_{Δ}	0.1 V	0.1 V	0.1 V	0.15 V	0.15 V	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, Z₀ = 50 Ω , t_r/t_f = 3 ns.
 - 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. All parameters and waveforms are not applicable to all devices.

Figure 4. Load Circuit and Voltage Waveforms

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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⁾
SN74AUP1G32DBVR	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G32DBVRE4	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G32DBVRG4	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G32DBVT	ACTIVE	SOT-23	DBV	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G32DBVTE4	ACTIVE	SOT-23	DBV	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G32DBVTG4	ACTIVE	SOT-23	DBV	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G32DCKR	ACTIVE	SC70	DCK	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G32DCKRE4	ACTIVE	SC70	DCK	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G32DCKRG4	ACTIVE	SC70	DCK	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G32DCKT	ACTIVE	SC70	DCK	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G32DCKTE4	ACTIVE	SC70	DCK	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G32DCKTG4	ACTIVE	SC70	DCK	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G32DRLR	ACTIVE	SOT	DRL	5	4000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G32DRLRG4	ACTIVE	SOT	DRL	5	4000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G32YZPR	ACTIVE	DSBGA	YZP	5	3000	TBD	Call TI	Call TI

⁽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.



PACKAGE OPTION ADDENDUM

Important Information and Disclaimer:The information provided on this page represents TI's knowledge and belief as of the date that it is provided. TI bases its knowledge and belief on information provided by third parties, and makes no representation or warranty as to the accuracy of such information. Efforts are underway to better integrate information from third parties. TI has taken and continues to take reasonable steps to provide representative and accurate information but may not have conducted destructive testing or chemical analysis on incoming materials and chemicals. TI and TI suppliers consider certain information to be proprietary, and thus CAS numbers and other limited information may not be available for release.

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TAPE AND REEL INFORMATION





QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE

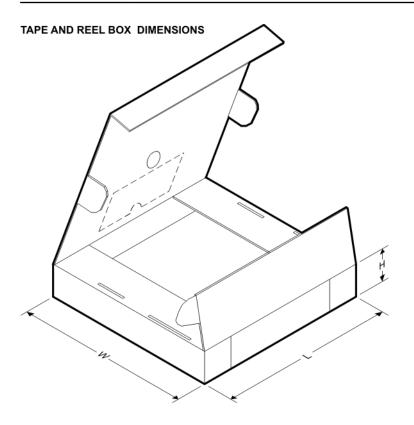


Device		Package Drawing		SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN74AUP1G32DBVR	SOT-23	DBV	5	3000	180.0	9.2	3.23	3.17	1.37	4.0	8.0	Q3
SN74AUP1G32DBVT	SOT-23	DBV	5	250	180.0	9.2	3.23	3.17	1.37	4.0	8.0	Q3
SN74AUP1G32DCKR	SC70	DCK	5	3000	180.0	9.2	2.24	2.34	1.22	4.0	8.0	Q3
SN74AUP1G32DCKT	SC70	DCK	5	250	180.0	9.2	2.24	2.34	1.22	4.0	8.0	Q3
SN74AUP1G32DRLR	SOT	DRL	5	4000	180.0	9.2	1.78	1.78	0.69	4.0	8.0	Q3



PACKAGE MATERIALS INFORMATION

26-Nov-2008



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74AUP1G32DBVR	SOT-23	DBV	5	3000	202.0	201.0	28.0
SN74AUP1G32DBVT	SOT-23	DBV	5	250	202.0	201.0	28.0
SN74AUP1G32DCKR	SC70	DCK	5	3000	202.0	201.0	28.0
SN74AUP1G32DCKT	SC70	DCK	5	250	202.0	201.0	28.0
SN74AUP1G32DRLR	SOT	DRL	5	4000	202.0	201.0	28.0

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.

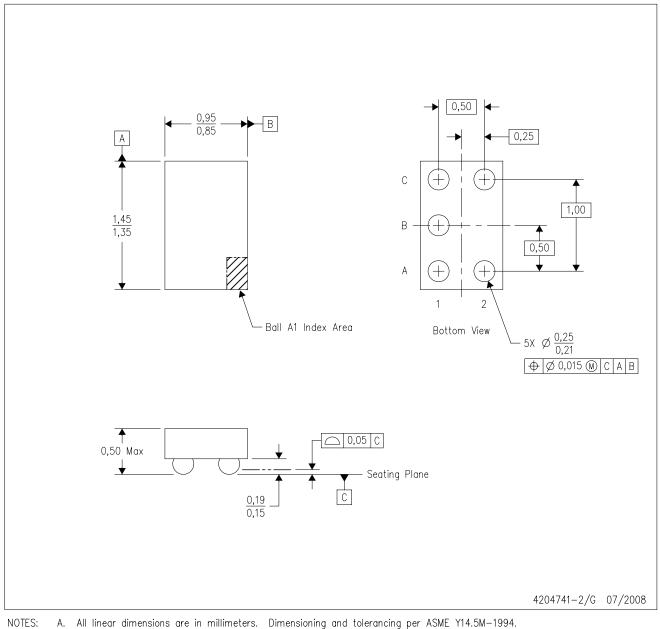
🖄 Body dimensions do not include mold flash, interlead flash, protrusions, or gate burrs. Mold flash, interlead flash, protrusions, or gate burrs shall not exceed 0,15 per end or side.





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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