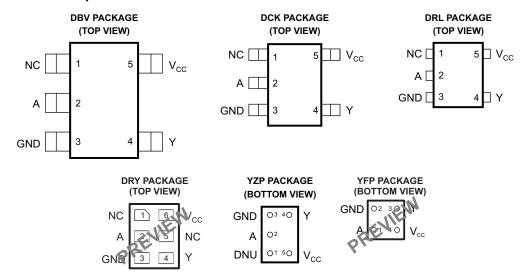
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FEATURES

- Available in the Texas Instruments NanoFree™ Package
- Low Static-Power Consumption (I_{CC} = 0.9 μA Max)
- Low Dynamic-Power Consumption (C_{pd} = 4.4 pF Typ at 3.3 V)
- Low Input Capacitance (C_i = 1.5 pF Typ)
- Low Noise Overshoot and Undershoot <10% of V_{CC}
- I_{off} Supports Partial-Power-Down Mode Operation
- Includes Schmitt-Trigger Inputs
- 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} = 5.1 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



DNU – Do not use
NC – No internal connection
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).

This device functions as an independent gate with Schmitt-trigger inputs, which allows for slow input transition and better switching-noise immunity at the input.

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

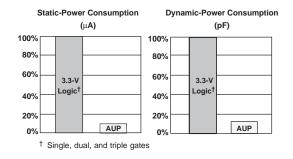
This device is fully specified for partial-power-down applications using I_{off} . The I_{off} circuitry disables the outputs, preventing damaging current backflow through the device when it is powered down.

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.

NanoFree is a trademark of Texas Instruments.





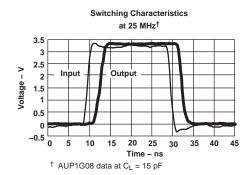


Figure 1. AUP - The Lowest-Power Family

Figure 2. Excellent Signal Integrity

ORDERING INFORMATION

T _A	PACKAGE ⁽¹⁾⁽²⁾		ORDERABLE PART NUMBER	TOP-SIDE MARKING(3)
	NanoFree – WCSP (DSBGA) 0.23-mm Large Bump – YFP (Pb-free)	Reel of 3000	SN74AUP1G17YFPR	PREVIEW
	NanoFree – WCSP (DSBGA) 0.23-mm Large Bump – YZP (Pb-free)	Reel of 3000	SN74AUP1G17YZPR	H7_
–40°C to 85°C	SON - DRY	Reel of 5000	SN74AUP1G17DRYR	PREVIEW
	007 (007 00)	Reel of 3000	SN74AUP1G17DBVR	H17
	SOT (SOT-23) – DBV	Reel of 250	SN74AUP1G17DBVT	П11_
	COT (CC 70) DOV	Reel of 3000	SN74AUP1G17DCKR	117
	SOT (SC-70) – DCK	Reel of 250	SN74AUP1G17DCKT	H7_
	SOT (SOT-553) – DRL	Reel of 4000	SN74AUP1G17DRLR	H7_

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

FUNCTION TABLE

INPUT A	OUTPUT Y
Н	Н
L	L

LOGIC DIAGRAM (POSITIVE LOGIC) (DBV, DCK, DRL, DRY, and YZP PACKAGES)



LOGIC DIAGRAM (POSITIVE LOGIC) (YFP PACKAGE)



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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 h	nigh-impedance or power-off state (2)	-0.5	4.6	V
Vo	Output voltage range in the high or low stat	e ⁽²⁾	-0.5	V _{CC} + 0.5	V
I _{IK}	Input clamp current	V _I < 0		-50	mA
I _{OK}	Output clamp current	V _O < 0		-50	mA
Io	Continuous output current		±20	mA	
	Continuous current through V _{CC} or GND			±50	mA
		DBV package		206	
		DCK package		252	
θ_{JA}	Package thermal impedance (3)	DRL package	142		°C/W
		DRY package		234	
		YFP/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.

Recommended Operating Conditions(1)

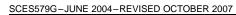
			MIN	MAX	UNIT	
V_{CC}	Supply voltage		0.8	3.6	V	
V _I	Input voltage		0	3.6	V	
Vo	Output voltage		0	V_{CC}	V	
		V _{CC} = 0.8 V		-20	μΑ	
		V _{CC} = 1.1 V		-1.1		
I _{OH} (2)	High-level output current	V _{CC} = 1.4 V		-1.7	ı	
		V _{CC} = 1.65		-1.9	mA	
		V _{CC} = 2.3 V		-3.1		
		V _{CC} = 3 V		-4		
		V _{CC} = 0.8 V		20	μΑ	
		V _{CC} = 1.1 V		1.1		
I _{OL} (2)	Law laval autout august	V _{CC} = 1.4 V		1.7	ı	
IOL (=/	Low-level output current	V _{CC} = 1.65 V		1.9	mA	
		V _{CC} = 2.3 V		3.1	1	
		V _{CC} = 3 V		4	İ	
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.

⁽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.

⁽²⁾ Defined by the signal-integrity requirements and design-goal priorities





Electrical Characteristics

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

PARAMETER	TEST CONDITIONS	V	T _A	= 25°C	T _A = -40°C 1	UNIT		
PARAMETER	TEST CONDITIONS	V _{cc}	MIN	TYP MAX	MIN	MAX	UNIT	
		0.8 V	0.3	0.6	0.3	0.6		
V_{T+}		1.1 V	0.53	0.9	0.53	0.9		
v _{T+} Positive-going		1.4 V	0.74	1.11	0.74	1.11	V	
input threshold		1.65 V	0.91	1.29	0.91	1.29		
voltage		2.3 V	1.37	1.77	1.37	1.77		
		3 V	1.88	2.29	1.88	2.29		
		0.8 V	0.1	0.6	0.1	0.6		
V_{T-}		1.1 V	0.26	0.65	0.26	0.65		
Negative-going		1.4 V	0.39	0.75	0.39	0.75	V	
input threshold		1.65 V	0.47	0.84	0.47	0.84	V	
voltage		2.3 V	0.69	1.04	0.69	1.04		
		3 V	0.88	1.24	0.88	1.24		
		0.8 V	0.07	0.5	0.07	0.5		
		1.1 V	0.08	0.46	0.08	0.46		
ΔV _T		1.4 V	0.18	0.56	0.18	0.56	V	
Hysteresis $(V_{T+} - V_{T-})$		1.65 V	0.27	0.66	0.27	0.66		
,		2.3 V	0.53	0.92	0.53	0.92		
		3 V	0.79	1.31	0.79	1.31		
	$I_{OH} = -20 \mu A$	0.8 V to 3.6 V	V _{CC} - 0.1		V _{CC} - 0.1			
	$I_{OH} = -1.1 \text{ mA}$	1.1 V	$0.75 \times V_{CC}$		$0.7 \times V_{CC}$			
	$I_{OH} = -1.7 \text{ mA}$	1.4 V	1.11		1.03		V	
V	$I_{OH} = -1.9 \text{ mA}$	1.65 V	1.32		1.3			
V _{OH}	$I_{OH} = -2.3 \text{ mA}$	2.3 V	2.05		1.97		V	
	$I_{OH} = -3.1 \text{ mA}$	2.3 V	1.9		1.85			
	$I_{OH} = -2.7 \text{ mA}$	3 V	2.72		2.67			
	$I_{OH} = -4 \text{ mA}$	3 V	2.6		2.55			
	$I_{OL} = 20 \mu A$	0.8 V to 3.6 V		0.1		0.1		
	$I_{OL} = 1.1 \text{ mA}$	1.1 V		$0.3 \times V_{CC}$	0	$0.3 \times V_{CC}$		
	$I_{OL} = 1.7 \text{ mA}$	1.4 V		0.31		0.37		
V _{OL}	$I_{OL} = 1.9 \text{ mA}$	1.65 V		0.31		0.35	V	
VOL	$I_{OL} = 2.3 \text{ mA}$	2.3 V		0.31		0.33	V	
	$I_{OL} = 3.1 \text{ mA}$	2.5 V		0.44		0.45		
	$I_{OL} = 2.7 \text{ mA}$	3 V		0.31		0.33		
	$I_{OL} = 4 \text{ mA}$	3 V		0.44		0.45		
I _I A inputs	$V_I = GND$ to 3.6 V	0 V to 3.6 V		0.1		0.5	μΑ	
l _{off}	V_I or $V_O = 0 V$ to 3.6 V	0 V		0.2		0.6	μΑ	
$\Delta I_{ m off}$	V_I or $V_O = 0 V$ to 3.6 V	0 V to 0.2 V		0.2		0.6	μΑ	
I _{CC}	$V_I = GND \text{ or } (V_{CC} \text{ to } 3.6 \text{ V}),$ $I_O = 0$	0.8 V to 3.6 V		0.5		0.9	μΑ	
ΔI _{CC}	$V_{I} = V_{CC} \ 0.6 \ V, \ I_{O} = 0$	3.3 V		40		50	μΑ	
C _i	V _I = V _{CC} or GND	0 V 3.6 V		1.5 1.5			pF	
C _o	V _O = GND	0 V		2.5			pF	

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Switching Characteristics

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

PARAMETER	FROM	то	V _{cc}	T _A = 25°C			$T_A = -40^{\circ}C$ to $85^{\circ}C$		UNIT
PARAMETER	(INPUT)	(OUTPUT)	▼CC	MIN	TYP	MAX	M IN	MAX	ONIT
		0.8 V		22.7					
		1.2 V ± 0.1 V	6.3	8	12.8	3.9	14.6		
			1.5 V ± 0.1 V	4.6	5.8	8.4	2.8	10	no
t _{pd}	Α	ľ	1.8 V ± 0.15 V	3.9	4.8	7.2	2.4	8.1	ns
			2.5 V ± 0.2 V	3.1	3.6	5.1	2	6.1	
			3.3 V ± 0.3 V	2.7	3	4.4	1.9	5.1	

Switching Characteristics

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

PARAMETER	FROM	то	V	T _A	= 25°C		T _A = -40°C	to 85°C	UNIT						
PARAMETER	(INPUT)	(OUTPUT)	V _{CC}	MIN	TYP	MAX	MIN	MAX	UNIT						
			0.8 V		25.1										
		Y	Y	1.2 V ± 0.1 V	7.1	9.1	13.8	4.7	15.6						
	Δ.			Y	Y	Y	Y	Y	1.5 V ± 0.1 V	5.2	6.5	9.4	3.4	11	
t _{pd}	A								. 		1.8 V ± 0.15 V	4.5	5.4	8	2.9
		2.5 V ± 0.2 V	3.5	4.2	5.7	2.4	6.8								
			3.3 V ± 0.3 V	3.1	3.5	4.9	2.2	5.7							

Switching Characteristics

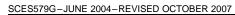
over recommended operating free-air temperature range, C_L = 15 pF (unless otherwise noted) (see Figure 3 and Figure 4)

PARAMETER	FROM	то	V	T _A	= 25°C		T _A = -40°C to	o 85°C	UNIT		
PARAMETER	(INPUT)	(OUTPUT)	V _{CC}	MIN	TYP	MAX	MIN	MAX	UNII		
			0.8 V		27.6						
		Y	1.2 V ± 0.1 V	7.8	10.1	14.8	5.3	16.7			
	^		Y	Υ	1.5 V ± 0.1 V	5.8	7.4	10.3	3.9	12	20
t _{pd}	A					1.8 V ± 0.15 V	5	6.1	8.8	3.4	10
			2.5 V ± 0.2 V	4	4.7	6.4	2.8	7.5			
			$3.3 \text{ V} \pm 0.3 \text{ V}$	3.5	4.1	5.4	2.6	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	PARAMETER FROM TO		T,	₄ = 25°C	;	T _A = -40°C t	o 85°C	UNIT	
PARAMETER	(INPUT)	(OUTPUT)	V _{cc}	MIN	TYP	MAX	MIN	MAX	UNIT
	0.8 V		35.1						
	t _{pd} A Y		1.2 V ± 0.1 V	10	13.1	18.1	7.5	19.8	
		V	1.5 V ± 0.1 V	7.4	9.6	12.9	5.6	14.9	20
¹ pd		I	1.8 V ± 0.15 V	6.4	7.9	11	4.8	12.4	ns
			$2.5 \text{ V} \pm 0.2 \text{ V}$	5.2	6.1	7.9	4	9.3	
			$3.3 \text{ V} \pm 0.3 \text{ V}$	4.6	5.3	6.7	3.6	7.7	





Operating Characteristics

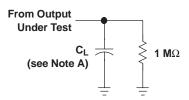
 $T_A = 25^{\circ}C$

	PARAMETER	TEST CONDITIONS	V _{cc}	TYP	UNIT
			0.8 V	4	
			1.2 V ± 0.1 V	4	
0	Dower discinction conscitones	f = 10 MHz	1.5 V ± 0.1 V	4	
C _{pd}	Power dissipation capacitance	I = IU WINZ	1.8 V ± 0.15 V	4	pF
			2.5 V ± 0.2 V	4.2	
			3.3 V ± 0.3 V	4.4	



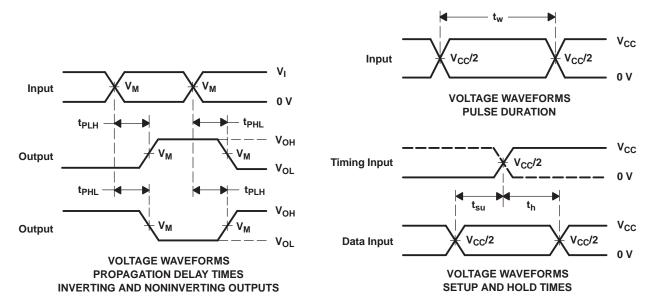


PARAMETER MEASUREMENT INFORMATION (Propagation Delays, Setup and Hold Times, and Pulse Duration)



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	V _{CC} = 3.3 V ± 0.3 V
C _L	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
V _I	V _{CC}	V _{CC}	V _{CC}	V _{CC}	V _{CC}	V _{CC}



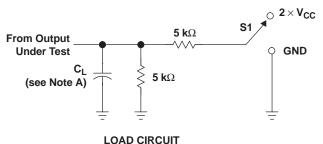
NOTES: A. C_L includes probe and jig capacitance.

- B. All input pulses are supplied by generators having the following characteristics: PRR \leq 10 MHz, $Z_O = 50 \Omega$, $t_r/t_f = 3 \text{ ns}$.
- 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



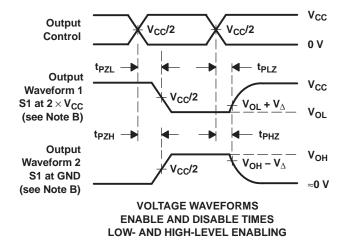
PARAMETER MEASUREMENT INFORMATION (Enable and Disable Times)



TEST	S1
t _{PLZ} /t _{PZL}	2×V _{CC}
t _{PHZ} /t _{PZH}	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 \pm 0.2 V	V _{CC} = 3.3 V ± 0.3 V
C _L	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
V _I	V _{CC}	V _{CC}	V _{CC}	V _{CC}	V _{CC}	V _{CC}
V _∆	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, $Z_O = 50~\Omega$, $t_f/t_f = 3~ns$.
- 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







PACKAGING INFORMATION

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	e Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
SN74AUP1G17DBVR	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G17DBVRE4	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G17DBVRG4	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G17DBVT	ACTIVE	SOT-23	DBV	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G17DBVTE4	ACTIVE	SOT-23	DBV	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G17DBVTG4	ACTIVE	SOT-23	DBV	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G17DCKR	ACTIVE	SC70	DCK	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G17DCKRE4	ACTIVE	SC70	DCK	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G17DCKRG4	ACTIVE	SC70	DCK	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G17DCKT	ACTIVE	SC70	DCK	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G17DCKTE4	ACTIVE	SC70	DCK	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G17DCKTG4	ACTIVE	SC70	DCK	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G17DRLR	ACTIVE	SOT	DRL	5	4000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G17DRLRG4	ACTIVE	SOT	DRL	5	4000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G17YZPR	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.

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

18-Sep-2008

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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OTHER QUALIFIED VERSIONS OF SN74AUP1G17:

● Enhanced Product: SN74AUP1G17-EP

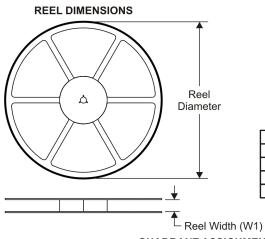
NOTE: Qualified Version Definitions:

• Enhanced Product - Supports Defense, Aerospace and Medical Applications



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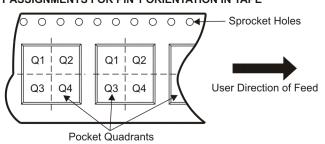
TAPE AND REEL INFORMATION



TAPE DIMENSIONS + K0 - P1 - B0 W Cavity - A0 -

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

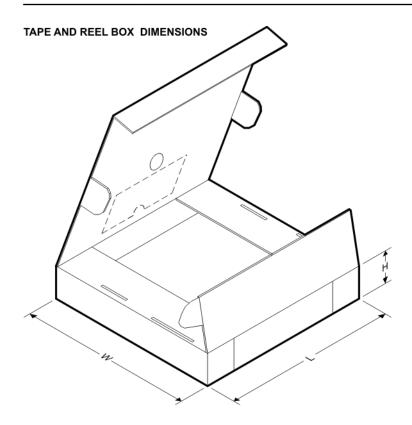
QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*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
SN74AUP1G17DBVR	SOT-23	DBV	5	3000	180.0	9.2	3.23	3.17	1.37	4.0	8.0	Q3
SN74AUP1G17DBVR	SOT-23	DBV	5	3000	178.0	9.0	3.23	3.17	1.37	4.0	8.0	Q3
SN74AUP1G17DBVT	SOT-23	DBV	5	250	180.0	9.2	3.23	3.17	1.37	4.0	8.0	Q3
SN74AUP1G17DCKR	SC70	DCK	5	3000	178.0	9.0	2.4	2.5	1.2	4.0	8.0	Q3
SN74AUP1G17DCKR	SC70	DCK	5	3000	180.0	9.2	2.24	2.34	1.22	4.0	8.0	Q3
SN74AUP1G17DCKT	SC70	DCK	5	250	178.0	9.0	2.4	2.5	1.2	4.0	8.0	Q3
SN74AUP1G17DCKT	SC70	DCK	5	250	180.0	9.2	2.24	2.34	1.22	4.0	8.0	Q3
SN74AUP1G17DRLR	SOT	DRL	5	4000	180.0	9.2	1.78	1.78	0.69	4.0	8.0	Q3
SN74AUP1G17YZPR	DSBGA	YZP	5	3000	180.0	8.4	1.02	1.52	0.66	4.0	8.0	Q1



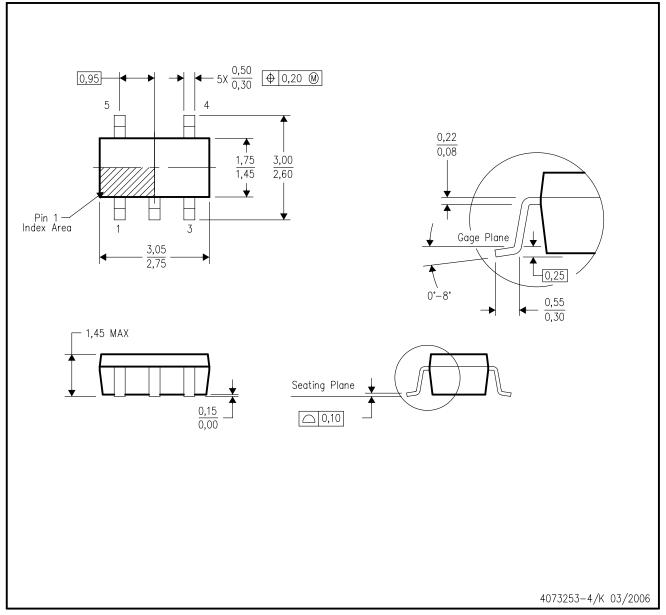


*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74AUP1G17DBVR	SOT-23	DBV	5	3000	205.0	200.0	33.0
SN74AUP1G17DBVR	SOT-23	DBV	5	3000	565.0	140.0	75.0
SN74AUP1G17DBVT	SOT-23	DBV	5	250	205.0	200.0	33.0
SN74AUP1G17DCKR	SC70	DCK	5	3000	565.0	140.0	75.0
SN74AUP1G17DCKR	SC70	DCK	5	3000	205.0	200.0	33.0
SN74AUP1G17DCKT	SC70	DCK	5	250	565.0	140.0	75.0
SN74AUP1G17DCKT	SC70	DCK	5	250	205.0	200.0	33.0
SN74AUP1G17DRLR	SOT	DRL	5	4000	202.0	201.0	28.0
SN74AUP1G17YZPR	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:

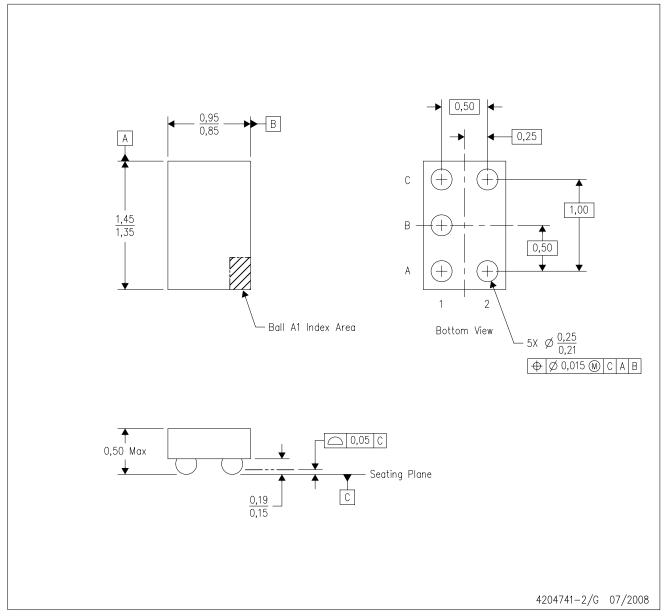
- A. All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M—1994.
- B. This drawing is subject to change without notice.
- Body dimensions do not include mold flash, interlead flash, protrusions, or gate burrs.

 Mold flash, interlead flash, protrusions, or gate burrs shall not exceed 0,15 per end or side.
- D. JEDEC package registration is pending.



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).

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