

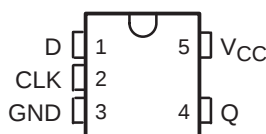
SN74AUP1G79

LOW-POWER SINGLE POSITIVE-EDGE-TRIGGERED D-TYPE FLIP-FLOP

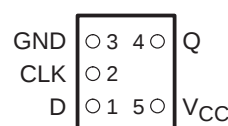
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- Available in the Texas Instruments NanoStar™ and NanoFree™ Packages
- Low Static-Power Consumption; $I_{CC} = 0.9 \mu A$ Max
- Low Dynamic-Power Consumption; $C_{pd} = 3 \text{ pF Typ at } 3.3 \text{ V}$
- Low Input Capacitance; $C_i = 1.5 \text{ pF Typ}$
- Low Noise – Overshoot and Undershoot $<10\%$ of V_{CC}
- I_{off} Supports Partial-Power-Down Mode Operation
- Input Hysteresis Allows Slow Input Transition and Better Switching Noise Immunity at the Input ($V_{hys} = 250 \text{ mV Typ at } 3.3 \text{ V}$)
- Wide Operating V_{CC} Range of $0.8 \text{ V to } 3.6 \text{ V}$
- Optimized for 3.3-V Operation
- 3.6-V I/O Tolerant to Support Mixed-Mode Signal Operation
- $t_{pd} = 3.6 \text{ ns Max at } 3.3 \text{ V}$
- Suitable for Point-to-Point Applications
- Latch-Up Performance Exceeds $100 \text{ mA Per JESD 78, Class II}$
- 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 $\pm 5000 \text{ V}$ With Human-Body Model

DBV OR DCK PACKAGE
(TOP VIEW)



YEP OR YZP PACKAGE
(BOTTOM VIEW)



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 $0.8 \text{ V to } 3.6 \text{ V}$, resulting in an increased battery life. This product also maintains excellent signal integrity (see Figures 1 and 2).

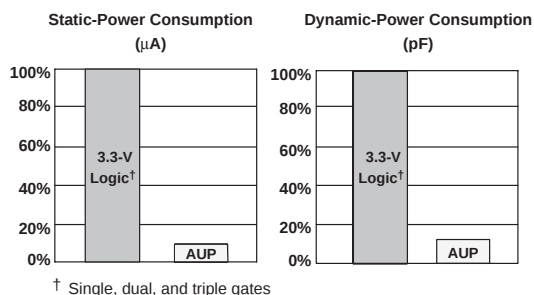


Figure 1. AUP – The Lowest-Power Family

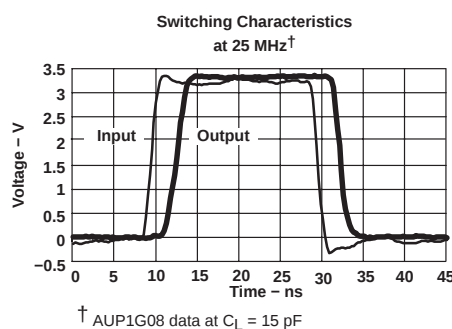


Figure 2. Excellent Signal Integrity

This is a single positive-edge-triggered D-type flip-flop. When data at the data (D) input meets the setup time requirement, the data is transferred to the Q output on the positive-going edge of the clock pulse. Clock triggering occurs at a voltage level and is not directly related to the rise time of the clock pulse. Following the hold-time interval, data at the D input can be changed without affecting the levels at the outputs.



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.

PRODUCTION DATA information is current as of publication date. Products conform to specifications per the terms of Texas Instruments standard warranty. Production processing does not necessarily include testing of all parameters.



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description/ordering information (continued)

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.

ORDERING INFORMATION

T _A	PACKAGE [†]		ORDERABLE PART NUMBER	TOP-SIDE MARKING [‡]
–40°C to 85°C	NanoStar™ – WCSP (DSBGA) 0.23-mm Large Bump – YEP	Reel of 3000	SN74AUP1G79YEPR	___HW_
	NanoFree™ – WCSP (DSBGA) 0.23-mm Large Bump – YZP (Pb-free)		SN74AUP1G79YZPR	
	SOT (SOT-23) – DBV	Reel of 3000	SN74AUP1G79DBVR	H79_
		Reel of 250	SN74AUP1G79DBVT	
	SOT (SC-70) – DCK	Reel of 3000	SN74AUP1G79DCKR	HW_
		Reel of 250	SN74AUP1G79DCKT	

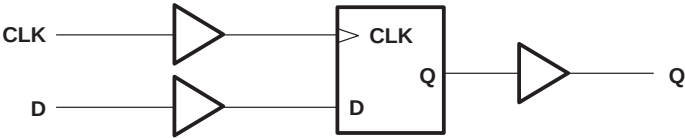
[†] Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.

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

FUNCTION TABLE

INPUTS		OUTPUT
CLK	D	Q
↑	H	H
↑	L	L
L or H	X	Q ₀

logic diagram (positive logic)



absolute maximum ratings over operating free-air temperature range (unless otherwise noted)[†]

Supply voltage range, V_{CC}	.....	-0.5 V to 4.6 V
Input voltage range, V_I (see Note 1)	.....	-0.5 V to 4.6 V
Voltage range applied to any output in the high-impedance or power-off state, V_O (see Note 1)	.....	-0.5 V to 4.6 V
Output voltage range in the high or low state, V_O (see Note 1)	.....	-0.5 V to $V_{CC} + 0.5$ V
Input clamp current, I_{IK} ($V_I < 0$)	.....	-50 mA
Output clamp current, I_{OK} ($V_O < 0$)	.....	-50 mA
Continuous output current, I_O		± 20 mA
Continuous current through V_{CC} or GND		± 50 mA
Package thermal impedance, θ_{JA} (see Note 2):		
DBV package	.....	206°C/W
DCK package	.....	252°C/W
YEP/YZP package	.....	132°C/W
Storage temperature range, T_{sta}	.....	-65°C to 150°C

† 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.

NOTES: 1. The input negative-voltage and output voltage ratings may be exceeded if the input and output current ratings are observed.
2. The package thermal impedance is calculated in accordance with JEDEC 51-7.

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recommended operating conditions (see Note 3)

		MIN	MAX	UNIT
V_{CC}	Supply voltage	0.8	3.6	V
V_{IH}	High-level input voltage	$V_{CC} = 0.8\text{ V}$	V_{CC}	V
		$V_{CC} = 1.1\text{ V to }1.95\text{ V}$	$0.65 \times V_{CC}$	
		$V_{CC} = 2.3\text{ V to }2.7\text{ V}$	1.6	
		$V_{CC} = 3\text{ V to }3.6\text{ V}$	2	
V_{IL}	Low-level input voltage	$V_{CC} = 0.8\text{ V}$	0	V
		$V_{CC} = 1.1\text{ V to }1.95\text{ V}$	$0.35 \times V_{CC}$	
		$V_{CC} = 2.3\text{ V to }2.7\text{ V}$	0.7	
		$V_{CC} = 3\text{ V to }3.6\text{ V}$	0.9	
V_I	Input voltage	0	3.6	V
V_O	Output voltage	0	V_{CC}	V
$I_{OH}^\dagger$	High-level output current	$V_{CC} = 0.8\text{ V}$	-20	μA
		$V_{CC} = 1.1\text{ V}$	-1.1	mA
		$V_{CC} = 1.4\text{ V}$	-1.7	
		$V_{CC} = 1.65$	-1.9	
		$V_{CC} = 2.3\text{ V}$	-3.1	
		$V_{CC} = 3\text{ V}$	-4	
$I_{OL}^\dagger$	Low-level output current	$V_{CC} = 0.8\text{ V}$	20	μA
		$V_{CC} = 1.1\text{ V}$	1.1	mA
		$V_{CC} = 1.4\text{ V}$	1.7	
		$V_{CC} = 1.65\text{ V}$	1.9	
		$V_{CC} = 2.3\text{ V}$	3.1	
		$V_{CC} = 3\text{ V}$	4	
$\Delta t/\Delta v$	Input transition rise or fall rate	$V_{CC} = 0.8\text{ V to }3.6\text{ V}$	200	ns/V
T_A	Operating free-air temperature	-40	85	$^\circ\text{C}$

[†] Defined by the signal integrity requirements and design-goal priorities

NOTE 3: 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)

PARAMETER		TEST CONDITIONS	V _{CC}	T _A = 25°C			T _A = -40°C TO 85°C		UNIT
				MIN	TYP	MAX	MIN	MAX	
V _{OH}		I _{OH} = -20 μA	0.8 V to 3.6 V	V _{CC} - 0.1			V _{CC} - 0.1		V
		I _{OH} = -1.1 mA	1.1 V	0.75 × V _{CC}			0.7 × V _{CC}		
		I _{OH} = -1.7 mA	1.4 V	1.11			1.03		
		I _{OH} = -1.9 mA	1.65 V	1.32			1.3		
		I _{OH} = -2.3 mA	2.3 V	2.05			1.97		
		I _{OH} = -3.1 mA		1.9			1.85		
		I _{OH} = -2.7 mA	3 V	2.72			2.67		
		I _{OH} = -4 mA		2.6			2.55		
V _{OL}		I _{OL} = 20 μA	0.8 V to 3.6 V	0.1			0.1		V
		I _{OL} = 1.1 mA	1.1 V	0.3 × V _{CC}			0.3 × V _{CC}		
		I _{OL} = 1.7 mA	1.4 V	0.31			0.37		
		I _{OL} = 1.9 mA	1.65 V	0.31			0.35		
		I _{OL} = 2.3 mA	2.3 V	0.31			0.33		
		I _{OL} = 3.1 mA		0.44			0.45		
		I _{OL} = 2.7 mA	3 V	0.31			0.33		
		I _{OL} = 4 mA		0.44			0.45		
I _I	D or CLK input	V _I = GND to 3.6 V	0 V to 3.6 V	0.1			0.5		μA
I _{off}		V _I or V _O = 0 V to 3.6 V	0 V	0.2			0.6		μA
ΔI _{off}		V _I or V _O = 0 V to 3.6 V	0 V to 0.2 V	0.2			0.6		μA
I _{CC}		V _I = GND 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 _I = V _{CC} - 0.6 V, [†] I _O = 0	3.3 V	40			50		μA
C _i		V _I = V _{CC} or GND	0 V	1.5					pF
			3.6 V	1.5					
C _O		V _O = GND	0 V	3					pF

† One-input switching

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timing requirements over recommended operating free-air temperature range (unless otherwise noted) (see Figure 3)

		V_{CC}	$T_A = 25^\circ\text{C}$	$T_A = -40^\circ\text{C}$ TO 85°C		UNIT
			TYP	MIN	MAX	
f_{clock} Clock frequency		0.8 V			20	ns
		1.2 V $\pm$ 0.1 V			80	
		1.5 V $\pm$ 0.1 V			100	
		1.8 V $\pm$ 0.15 V			140	
		2.5 V $\pm$ 0.2 V			210	
		3.3 V $\pm$ 0.3 V			260	
t_w Pulse duration, CLK high or low		0.8 V			4.8	ns
		1.2 V $\pm$ 0.1 V			2.2	
		1.5 V $\pm$ 0.1 V			1.5	
		1.8 V $\pm$ 0.15 V			1.6	
		2.5 V $\pm$ 0.2 V			1.7	
		3.3 V $\pm$ 0.3 V			1.9	
t_{su} Setup time before CLK $\uparrow$	Data high	0.8 V	2.9		4.2	ns
		1.2 V $\pm$ 0.1 V			1.4	
		1.5 V $\pm$ 0.1 V			1	
		1.8 V $\pm$ 0.15 V			0.9	
		2.5 V $\pm$ 0.2 V			0.7	
		3.3 V $\pm$ 0.3 V			0.6	
	Data low	0.8 V	3.5		5.3	
		1.2 V $\pm$ 0.1 V			1.8	
		1.5 V $\pm$ 0.1 V			1.2	
		1.8 V $\pm$ 0.15 V			1.1	
		2.5 V $\pm$ 0.2 V			1	
		3.3 V $\pm$ 0.3 V			1	
t_h Hold time, data after CLK $\uparrow$		0.8 V	0		0	ns
		1.2 V $\pm$ 0.1 V			0	
		1.5 V $\pm$ 0.1 V			0	
		1.8 V $\pm$ 0.15 V			0	
		2.5 V $\pm$ 0.2 V			0	
		3.3 V $\pm$ 0.3 V			0	

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

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V_{CC}	$T_A = 25^\circ\text{C}$			$T_A = -40^\circ\text{C}$ TO 85°C		UNIT
				MIN	TYP	MAX	MIN	MAX	
$f_{\max}$			0.8 V		93		90		MHz
			1.2 V $\pm$ 0.1 V		199		220		
			1.5 V $\pm$ 0.1 V		250		230		
			1.8 V $\pm$ 0.15 V		271		240		
			2.5 V $\pm$ 0.2 V		280		250		
			3.3 V $\pm$ 0.3 V		280		260		
t_{pd}	CLK	Q	0.8 V		15.9				ns
			1.2 V $\pm$ 0.1 V	3.7	6.9	11	2.6	13.1	
			1.5 V $\pm$ 0.1 V	3	4.8	7.6	2	8.8	
			1.8 V $\pm$ 0.15 V	2.4	3.8	6.1	1.5	7.1	
			2.5 V $\pm$ 0.2 V	1.8	2.7	4.4	1.1	5	
			3.3 V $\pm$ 0.3 V	1.5	2.1	3.6	0.9	4	

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

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V_{CC}	$T_A = 25^\circ\text{C}$			$T_A = -40^\circ\text{C}$ TO 85°C		UNIT
				MIN	TYP	MAX	MIN	MAX	
$f_{\max}$			0.8 V		62		50		MHz
			1.2 V $\pm$ 0.1 V		147		160		
			1.5 V $\pm$ 0.1 V		189		200		
			1.8 V $\pm$ 0.15 V		180		240		
			2.5 V $\pm$ 0.2 V		260		250		
			3.3 V $\pm$ 0.3 V		280		260		
t_{pd}	CLK	Q	0.8 V		18				ns
			1.2 V $\pm$ 0.1 V	4.3	7.8	12.3	3.2	14.4	
			1.5 V $\pm$ 0.1 V	3.5	5.5	8.4	2.5	9.8	
			1.8 V $\pm$ 0.15 V	2.8	4.4	6.8	1.9	8	
			2.5 V $\pm$ 0.2 V	2.2	3.2	5	1.5	5.7	
			3.3 V $\pm$ 0.3 V	1.8	2.6	4.1	1.3	4.5	



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

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V_{CC}	$T_A = 25^\circ\text{C}$			$T_A = -40^\circ\text{C}$ TO 85°C		UNIT
				MIN	TYP	MAX	MIN	MAX	
$f_{\max}$			0.8 V		48		30		MHz
			1.2 V $\pm$ 0.1 V		112		120		
			1.5 V $\pm$ 0.1 V		151		160		
			1.8 V $\pm$ 0.15 V		194		220		
			2.5 V $\pm$ 0.2 V		248		250		
			3.3 V $\pm$ 0.3 V		280		260		
t_{pd}	CLK	Q	0.8 V		20.3				ns
			1.2 V $\pm$ 0.1 V	5	8.7	13.6	3.9	15.6	
			1.5 V $\pm$ 0.1 V	4.1	6.3	9.3	3.1	10.7	
			1.8 V $\pm$ 0.15 V	3.3	4	7.6	2.4	8.7	
			2.5 V $\pm$ 0.2 V	2.6	3.6	5.5	1.9	6.3	
			3.3 V $\pm$ 0.3 V	2.2	3	4.5	1.6	5	

switching characteristics over recommended operating free-air temperature range, $C_L = 30$ pF (unless otherwise noted) (see Figures 3 and 4)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V_{CC}	$T_A = 25^\circ\text{C}$			$T_A = -40^\circ\text{C}$ TO 85°C		UNIT
				MIN	TYP	MAX	MIN	MAX	
$f_{\max}$			0.8 V		24		20		MHz
			1.2 V $\pm$ 0.1 V		72		80		
			1.5 V $\pm$ 0.1 V		100		100		
			1.8 V $\pm$ 0.15 V		127		140		
			2.5 V $\pm$ 0.2 V		185		210		
			3.3 V $\pm$ 0.3 V		266		260		
t_{pd}	CLK	Q	0.8 V		27.2				ns
			1.2 V $\pm$ 0.1 V	7	11.5	17.3	5.9	24	
			1.5 V $\pm$ 0.1 V	5.7	8.3	11.8	4.6	15.9	
			1.8 V $\pm$ 0.15 V	4.7	6.7	9.6	3.8	13	
			2.5 V $\pm$ 0.2 V	3.7	4.9	7	2.9	9	
			3.3 V $\pm$ 0.3 V	3.2	4.1	5.8	2.6	7.2	

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

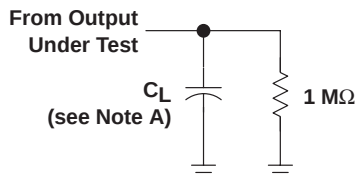
PARAMETER		TEST CONDITIONS	V_{CC}	TYP	UNIT
C_{pd}	Power dissipation capacitance	$f = 10$ MHz	0.8 V	2.5	pF
			1.2 V $\pm$ 0.1 V	2.5	
			1.5 V $\pm$ 0.1 V	2.5	
			1.8 V $\pm$ 0.15 V	2.5	
			2.5 V $\pm$ 0.2 V	3	
			3.3 V $\pm$ 0.3 V	3	

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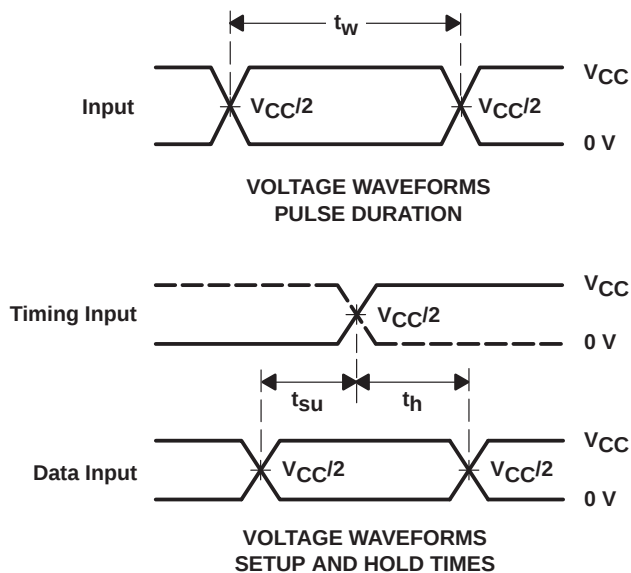
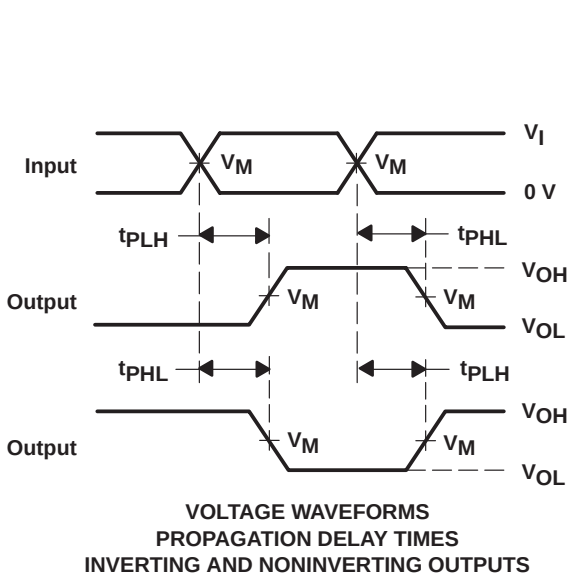
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PARAMETER MEASUREMENT INFORMATION (Propagation Delays, Setup and Hold Times, and Pulse Width)



LOAD CIRCUIT

	$V_{CC} = 0.8\text{ V}$	$V_{CC} = 1.2\text{ V}$ $\pm 0.1\text{ V}$	$V_{CC} = 1.5\text{ V}$ $\pm 0.1\text{ V}$	$V_{CC} = 1.8\text{ V}$ $\pm 0.15\text{ V}$	$V_{CC} = 2.5\text{ V}$ $\pm 0.2\text{ V}$	$V_{CC} = 3.3\text{ V}$ $\pm 0.3\text{ V}$
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:
- C_L includes probe and jig capacitance.
 - All input pulses are supplied by generators having the following characteristics: $PRR \leq 10\text{ MHz}$, $Z_O = 50\ \Omega$, $t_r/t_f = 3\text{ ns}$.
 - The outputs are measured one at a time, with one transition per measurement.
 - t_{PLH} and t_{PHL} are the same as t_{pd} .
 - All parameters and waveforms are not applicable to all devices.

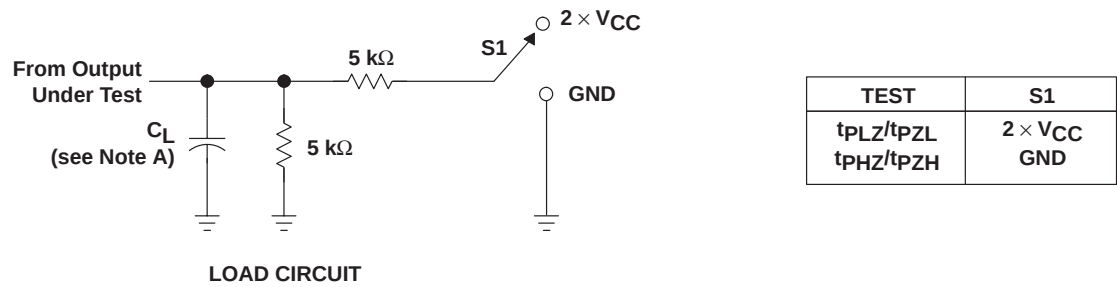
Figure 3. Load Circuit and Voltage Waveforms

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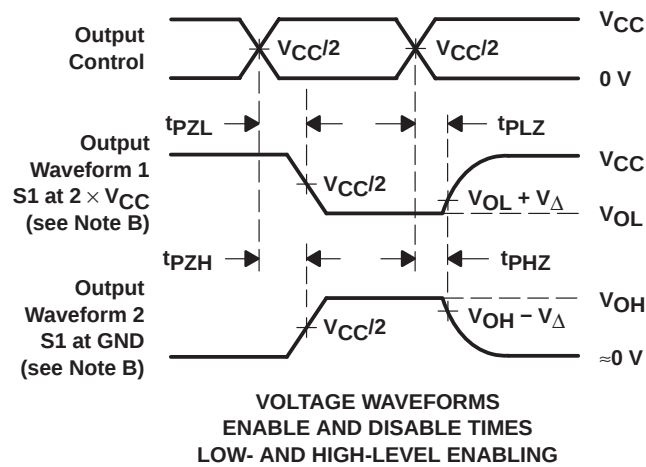
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PARAMETER MEASUREMENT INFORMATION (Enable and Disable Times)



	$V_{CC} = 0.8\text{ V}$	$V_{CC} = 1.2\text{ V}$ $\pm 0.1\text{ V}$	$V_{CC} = 1.5\text{ V}$ $\pm 0.1\text{ V}$	$V_{CC} = 1.8\text{ V}$ $\pm 0.15\text{ V}$	$V_{CC} = 2.5\text{ V}$ $\pm 0.2\text{ V}$	$V_{CC} = 3.3\text{ V}$ $\pm 0.3\text{ V}$
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_{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: $PRR \leq 10\text{ MHz}$, $Z_O = 50\text{ }\Omega$, $t_r/t_f = 3\text{ ns}$.
 - 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	Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
SN74AUP1G79DBVR	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G79DBVRE4	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G79DBVT	ACTIVE	SOT-23	DBV	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G79DBVTE4	ACTIVE	SOT-23	DBV	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G79DCKR	ACTIVE	SC70	DCK	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G79DCKRE4	ACTIVE	SC70	DCK	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G79DCKT	ACTIVE	SC70	DCK	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G79DCKTE4	ACTIVE	SC70	DCK	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	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.

OBSELETE: TI has discontinued the production of the device.

⁽²⁾ Eco Plan - The planned eco-friendly classification: Pb-Free (RoHS) 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.

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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PACKAGING INFORMATION

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SN74AUP1G79DBVRE4	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G79DBVRG4	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G79DBVT	ACTIVE	SOT-23	DBV	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G79DBVTE4	ACTIVE	SOT-23	DBV	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G79DCKR	ACTIVE	SC70	DCK	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G79DCKRE4	ACTIVE	SC70	DCK	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G79DCKT	ACTIVE	SC70	DCK	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUP1G79DCKTE4	ACTIVE	SC70	DCK	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM

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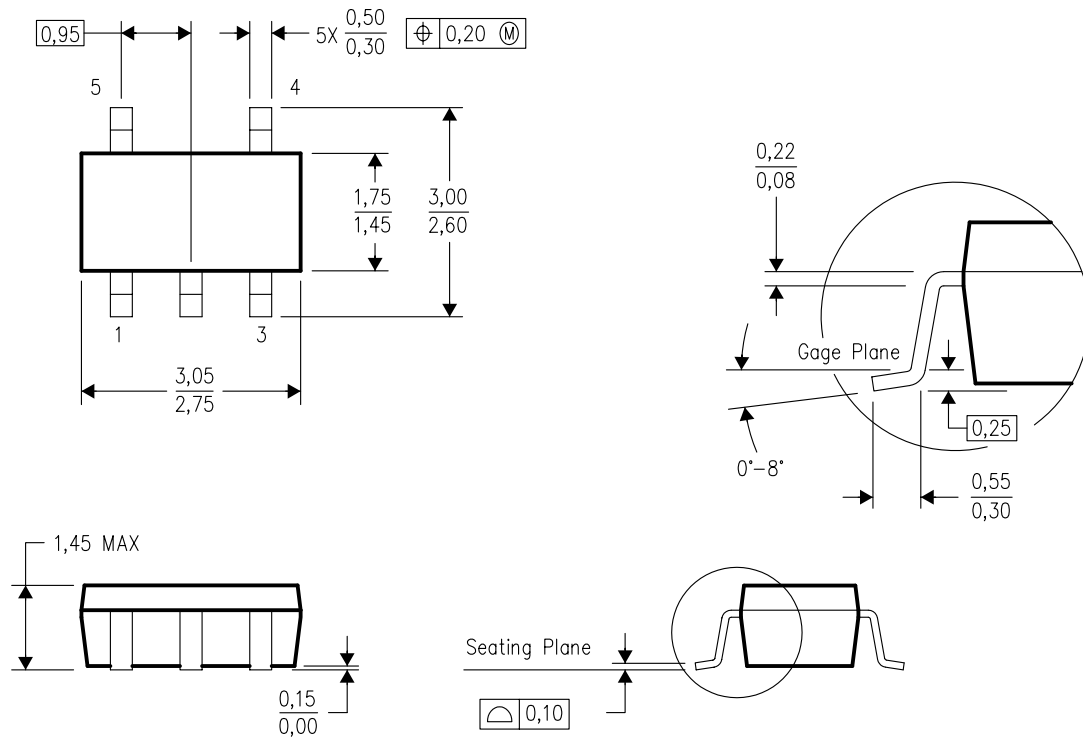
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DBV (R-PDSO-G5)

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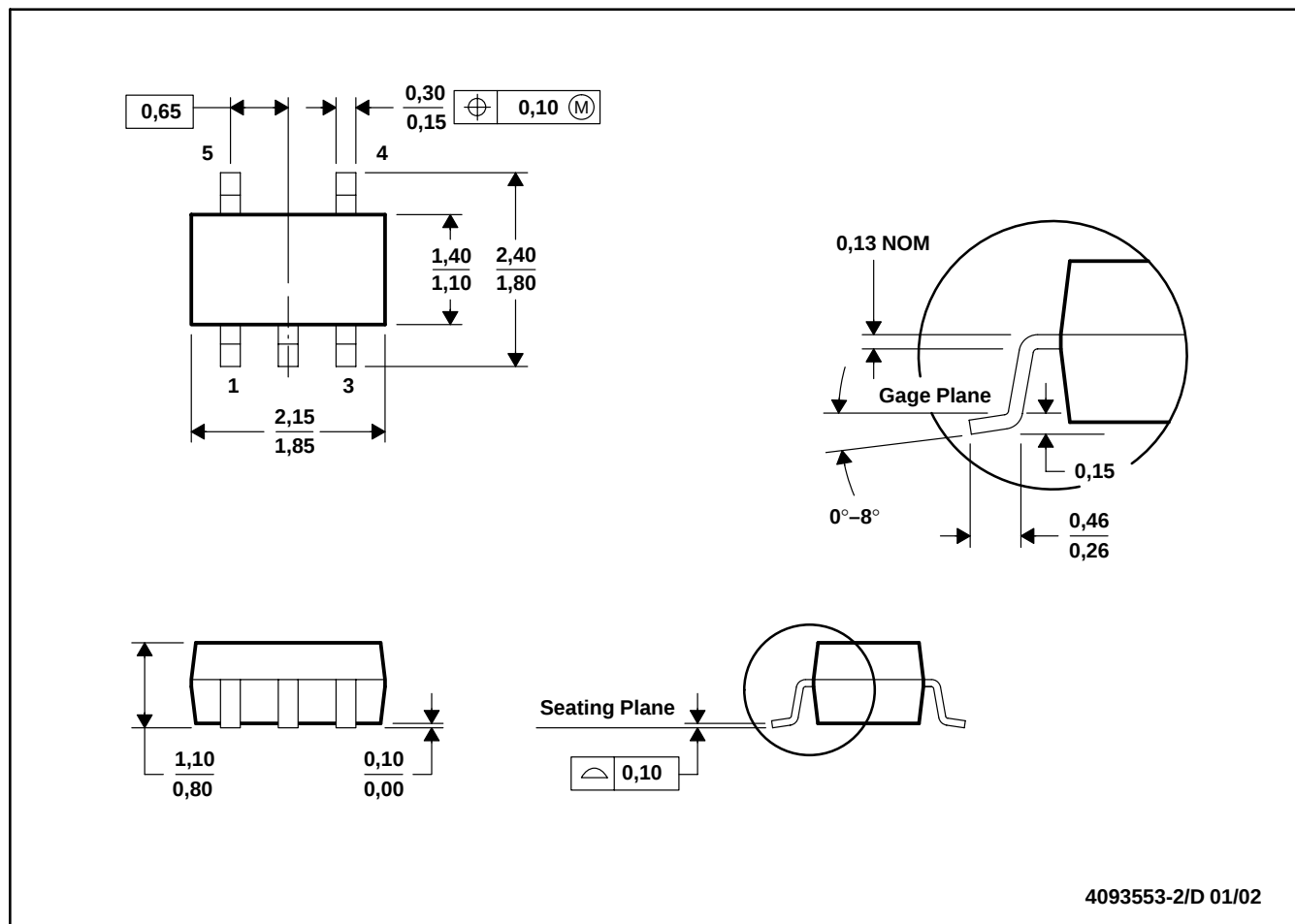


4073253-4/J 10/2005

- 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



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