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[Texas Instruments](#)
[SN74LV373AIPWRQ1](#)

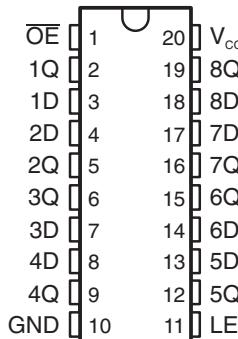
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FEATURES

- Qualified for Automotive Applications
- 2-V to 5.5-V V_{CC} Operation
- Maximum t_{pd} of 8.5 ns at 5 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) > 2.3 V at V_{CC} = 3.3 V, T_A = 25°C
- Supports Mixed-Mode Voltage Operation on All Ports
- I_{off} Supports Partial-Power-Down Mode Operation
- Latch-Up Performance Exceeds 250 mA Per JESD 17

**PW PACKAGE
(TOP VIEW)**



DESCRIPTION/ORDERING INFORMATION

The SN74LV373A device is an octal transparent D-type latch designed for 2-V to 5.5-V V_{CC} operation.

While the latch-enable (LE) input is high, the Q outputs follow the data (D) inputs. When LE is taken low, the Q outputs are latched at the logic levels set up at the D inputs.

A buffered output-enable (\overline{OE}) input can be used to place the eight outputs in either a normal logic state (high or low) or the high-impedance state. In the high-impedance state, the outputs neither load nor drive the bus lines significantly. The high-impedance state and increased drive provide the capability to drive bus lines without need for interface or pullup components.

\overline{OE} does not affect the internal operations of the latches. Old data can be retained or new data can be entered while the outputs are in the high-impedance state.

To ensure the high-impedance state during power up or power down, \overline{OE} shall be tied to V_{CC} through a pullup resistor; the minimum value of the resistor is determined by the current-sinking capability of the driver.

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⁽¹⁾

T_A	PACKAGE ⁽²⁾	ORDERABLE PART NUMBER	TOP-SIDE MARKING
–40°C to 85°C	TSSOP – PW	Reel of 2000	SN74LV373AIPWRQ1

(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.



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.

SN74LV373A-Q1

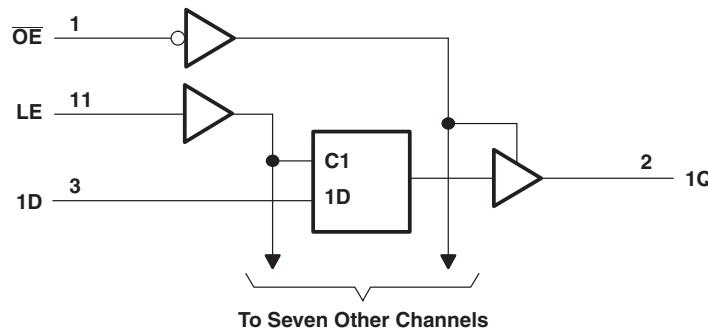
**OCTAL TRANSPARENT D-TYPE LATCH
WITH 3-STATE OUTPUTS**

SCLS586C—JUNE 2004—REVISED OCTOBER 2007

**FUNCTION TABLE
(EACH LATCH)**

INPUTS			OUTPUT
\overline{OE}	LE	D	Q
L	H	H	H
L	H	L	L
L	L	X	Q_0
H	X	X	Z

LOGIC DIAGRAM (POSITIVE LOGIC)



Absolute Maximum Ratings⁽¹⁾

over operating free-air temperature (unless otherwise noted)

		MIN	MAX	UNIT
V_{CC}	Supply voltage range	-0.5	7	V
V_I	Input voltage range ⁽²⁾	-0.5	7	V
V_O	Voltage range applied to any output in the high-impedance or power-off state ⁽²⁾	-0.5	7	V
V_O	Output voltage range ⁽²⁾⁽³⁾	-0.5	$V_{CC} + 0.5$	V
I_{IK}	Input clamp current	$V_I < 0$		-20 mA
I_{OK}	Output clamp current	$V_O < 0$		-50 mA
I_O	Continuous output current	$V_O = 0$ to V_{CC}		± 35 mA
	Continuous current through V_{CC} or GND			± 70 mA
θ_{JA}	Package thermal impedance ⁽⁴⁾			83 °C/W
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) This value is limited to 5.5 V maximum.
- (4) The package thermal impedance is calculated in accordance with JESD 51-7.

Recommended Operating Conditions⁽¹⁾

			MIN	MAX	UNIT
V_{CC}	Supply voltage		2	5.5	V
V_{IH}	High-level input voltage	$V_{CC} = 2$ V	1.5		V
		$V_{CC} = 2.3$ V to 2.7 V	$V_{CC} \times 0.7$		
		$V_{CC} = 3$ V to 3.6 V	$V_{CC} \times 0.7$		
		$V_{CC} = 4.5$ V to 5.5 V	$V_{CC} \times 0.7$		
V_{IL}	Low-level input voltage	$V_{CC} = 2$ V	0.5		V
		$V_{CC} = 2.3$ V to 2.7 V	$V_{CC} \times 0.3$		
		$V_{CC} = 3$ V to 3.6 V	$V_{CC} \times 0.3$		
		$V_{CC} = 4.5$ V to 5.5 V	$V_{CC} \times 0.3$		
V_I	Input voltage		0	5.5	V
V_O	Output voltage	High or low state	0	V_{CC}	V
		3-state	0	5.5	
I_{OH}	High-level output current	$V_{CC} = 2$ V	–50		μA
		$V_{CC} = 2.3$ V to 2.7 V	–2		mA
		$V_{CC} = 3$ V to 3.6 V	–8		
		$V_{CC} = 4.5$ V to 5.5 V	–16		
I_{OL}	Low-level output current	$V_{CC} = 2$ V	50		μA
		$V_{CC} = 2.3$ V to 2.7 V	2		mA
		$V_{CC} = 3$ V to 3.6 V	8		
		$V_{CC} = 4.5$ V to 5.5 V	16		
$\Delta t/\Delta v$	Input transition rise or fall rate	$V_{CC} = 2.3$ V to 2.7 V	200		ns/V
		$V_{CC} = 3$ V to 3.6 V	100		
		$V_{CC} = 4.5$ V to 5.5 V	20		
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	TYP	MAX	UNIT
V_{OH}	$I_{OH} = -50 \mu A$	2 V to 5.5 V	$V_{CC} - 0.1$			V
	$I_{OH} = -2$ mA	2.3 V	2			
	$I_{OH} = -8$ mA	3 V	2.48			
	$I_{OH} = -16$ mA	4.5 V	3.8			
V_{OL}	$I_{OL} = 50 \mu A$	2 V to 5.5 V		0.1		V
	$I_{OL} = 2$ mA	2.3 V		0.4		
	$I_{OL} = 8$ mA	3 V		0.44		
	$I_{OL} = 16$ mA	4.5 V		0.55		
I_I	$V_I = 5.5$ V or GND	0 to 5.5 V		± 1	μA	
I_{OZ}	$V_O = V_{CC}$ or GND	5.5 V		± 5	μA	
I_{CC}	$V_I = V_{CC}$ or GND, $I_O = 0$	5.5 V		20	μA	
I_{off}	V_I or $V_O = 0$ to 5.5 V	0		5	μA	
C_i	$V_I = V_{CC}$ or GND	3.3 V		2.9	pF	

SN74LV373A-Q1

OCTAL TRANSPARENT D-TYPE LATCH WITH 3-STATE OUTPUTS

SCLS586C–JUNE 2004–REVISED OCTOBER 2007

Timing Requirements

over recommended operating free-air temperature range, $V_{CC} = 2.5 \text{ V} \pm 0.2 \text{ V}$ (unless otherwise noted) (see [Figure 1](#))

		MIN	MAX	UNIT
t_w	Pulse duration, LE high	6.5		ns
t_{su}	Setup time, data before LE \downarrow	High or low	5	ns
t_h	Hold time, data after LE \downarrow	High or low	1.5	ns

Timing Requirements

over recommended operating free-air temperature range, $V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$ (unless otherwise noted) (see [Figure 1](#))

		MIN	MAX	UNIT
t_w	Pulse duration, LE high	5		ns
t_{su}	Setup time, data before LE \downarrow	High or low	4	ns
t_h	Hold time, data after LE \downarrow	High or low	1	ns

Timing Requirements

over recommended operating free-air temperature range, $V_{CC} = 5 \text{ V} \pm 0.5 \text{ V}$ (unless otherwise noted) (see [Figure 1](#))

		MIN	MAX	UNIT
t_w	Pulse duration, LE high	5		ns
t_{su}	Setup time, data before LE \downarrow	High or low	4	ns
t_h	Hold time, data after LE \downarrow	High or low	1	ns

Switching Characteristics

over recommended operating free-air temperature range, $V_{CC} = 2.5 \text{ V} \pm 0.2 \text{ V}$ (unless otherwise noted) (see [Figure 1](#))

PARAMETER	FROM (INPUT)	TO (OUTPUT)	LOAD CAPACITANCE	MIN	MAX	UNIT
t_{pd}	D	Q	$C_L = 15 \text{ pF}$	1	17	ns
	LE	Q		1	19	
t_{en}	\overline{OE}	Q	$C_L = 15 \text{ pF}$	1	19	ns
	\overline{OE}	Q		1	15	
t_{pd}	D	Q	$C_L = 50 \text{ pF}$	1	21	ns
	LE	Q		1	22	
t_{en}	\overline{OE}	Q	$C_L = 50 \text{ pF}$	1	22	ns
	\overline{OE}	Q		1	19	
$t_{sk(o)}$			$C_L = 50 \text{ pF}$	2		ns

Switching Characteristics

over recommended operating free-air temperature range, $V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$ (unless otherwise noted) (see [Figure 1](#))

PARAMETER	FROM (INPUT)	TO (OUTPUT)	LOAD CAPACITANCE	MIN	MAX	UNIT
t_{pd}	D	Q	$C_L = 15 \text{ pF}$	1	13.5	ns
	LE	Q		1	13	
t_{en}	\overline{OE}	Q	$C_L = 15 \text{ pF}$	1	13.5	ns
t_{dis}	\overline{OE}	Q		1	12	
t_{pd}	D	Q	$C_L = 50 \text{ pF}$	1	17	ns
	LE	Q		1	16.5	
t_{en}	\overline{OE}	Q	$C_L = 50 \text{ pF}$	1	17	ns
t_{dis}	\overline{OE}	Q		1	15	
$t_{sk(o)}$			$C_L = 50 \text{ pF}$	1.5		ns

Switching Characteristics

over recommended operating free-air temperature range, $V_{CC} = 5 \text{ V} \pm 0.5 \text{ V}$ (unless otherwise noted) (see [Figure 1](#))

PARAMETER	FROM (INPUT)	TO (OUTPUT)	LOAD CAPACITANCE	MIN	MAX	UNIT
t_{pd}	D	Q	$C_L = 15 \text{ pF}$	1	8.5	ns
	LE	Q		1	8.5	
t_{en}	\overline{OE}	Q	$C_L = 50 \text{ pF}$	1	9.5	ns
	\overline{OE}	Q		1	8.5	
t_{pd}	D	Q	$C_L = 50 \text{ pF}$	1	10.5	ns
	LE	Q		1	10.5	
t_{en}	\overline{OE}	Q	$C_L = 50 \text{ pF}$	1	11.5	ns
	\overline{OE}	Q		1	10.5	
$t_{sk(o)}$			$C_L = 50 \text{ pF}$	1		ns

Noise Characteristics⁽¹⁾

$V_{CC} = 3.3 \text{ V}$, $C_L = 50 \text{ pF}$, $T_A = 25^\circ\text{C}$ (unless otherwise noted)

		MIN	TYP	MAX	UNIT
$V_{OL(P)}$	Quiet output, maximum dynamic V_{OL}	0.6	0.8	0.8	V
$V_{OL(V)}$	Quiet output, minimum dynamic V_{OL}	-0.6	-0.8	-0.8	V
$V_{OH(V)}$	Quiet output, minimum dynamic V_{OH}	2.9		2.9	V
$V_{IH(D)}$	High-level dynamic input voltage	2.31		2.31	V
$V_{IL(D)}$	Low-level dynamic input voltage		0.99	0.99	V

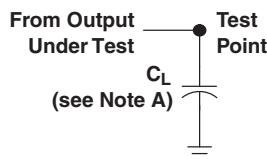
(1) Characteristics are for surface-mount packages only.

Operating Characteristics

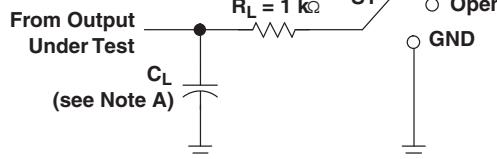
$T_A = 25^\circ\text{C}$

PARAMETER	TEST CONDITIONS	V_{CC}	TYP	UNIT
C_{pd}	$C_L = 50 \text{ pF}$, $f = 10 \text{ MHz}$	3.3 V	17.4	pF
		5 V	19.5	

PARAMETER MEASUREMENT INFORMATION

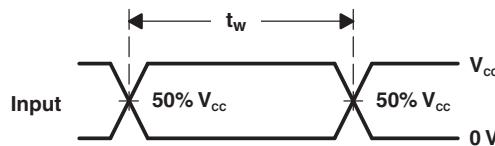


LOAD CIRCUIT FOR
TOTEM-POLE OUTPUTS

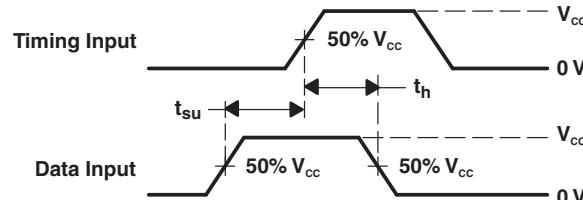


LOAD CIRCUIT FOR
3-STATE AND OPEN-DRAIN OUTPUTS

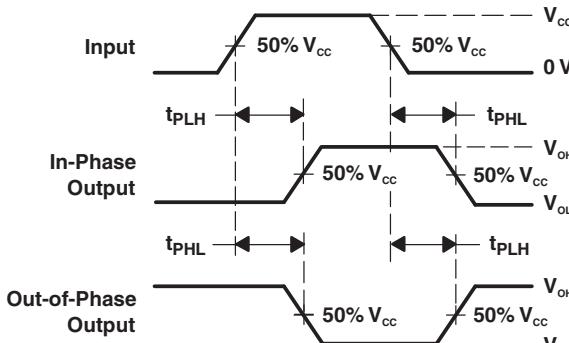
TEST	S1
t_{PLH}/t_{PHL}	Open
t_{PLZ}/t_{PZL}	V_{cc}
t_{PHZ}/t_{PZH}	GND
Open Drain	V_{cc}



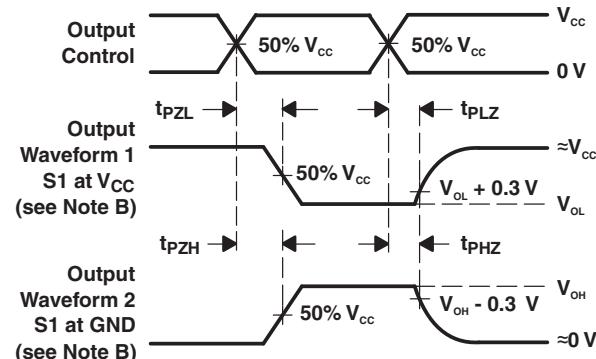
VOLTAGE WAVEFORMS
PULSE DURATION



VOLTAGE WAVEFORMS
SETUP AND HOLD TIMES



VOLTAGE WAVEFORMS
PROPAGATION DELAY TIMES
INVERTING AND NONINVERTING OUTPUTS



VOLTAGE WAVEFORMS
ENABLE AND DISABLE TIMES
LOW- AND HIGH-LEVEL ENABLING

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 ≤ 1 MHz, $Z_O = 50 \Omega$, $t_r \leq 3$ ns, $t_f \leq 3$ ns.
- D. The outputs are measured one at a time, with one input 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_{PHL} and t_{PLH} are the same as t_{pd} .
- H. All parameters and waveforms are not applicable to all devices.

Figure 1. 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)	Op Temp (°C)	Top-Side Markings (4)	Samples
SN74LV373AIPWRG4Q1	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	LV373AI	Samples
SN74LV373AIPWRQ1	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-3-260C-168 HR	-40 to 85	LV373AI	Samples

(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.

(4) Multiple Top-Side Markings will be inside parentheses. Only one Top-Side Marking contained in parentheses and separated by a "—" will appear on a device. If a line is indented then it is a continuation of the previous line and the two combined represent the entire Top-Side Marking for that device.

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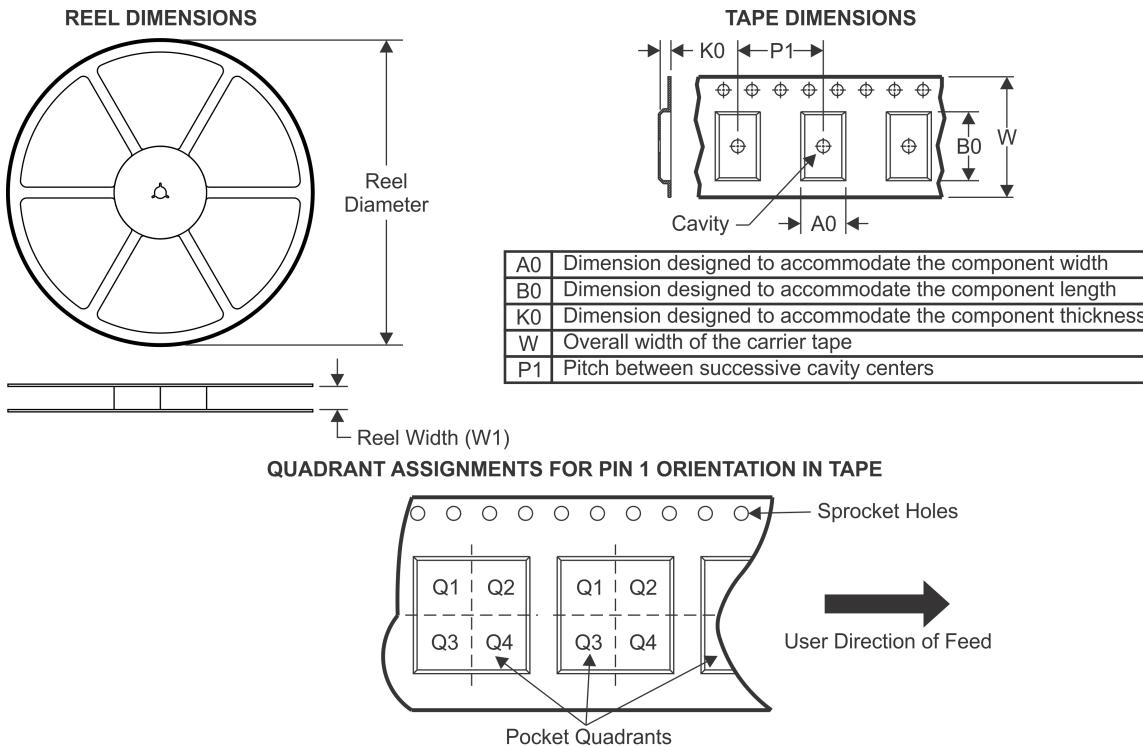
OTHER QUALIFIED VERSIONS OF SN74LV373A-Q1 :

- Catalog: [SN74LV373A](#)

NOTE: Qualified Version Definitions:

- Catalog - TI's standard catalog product

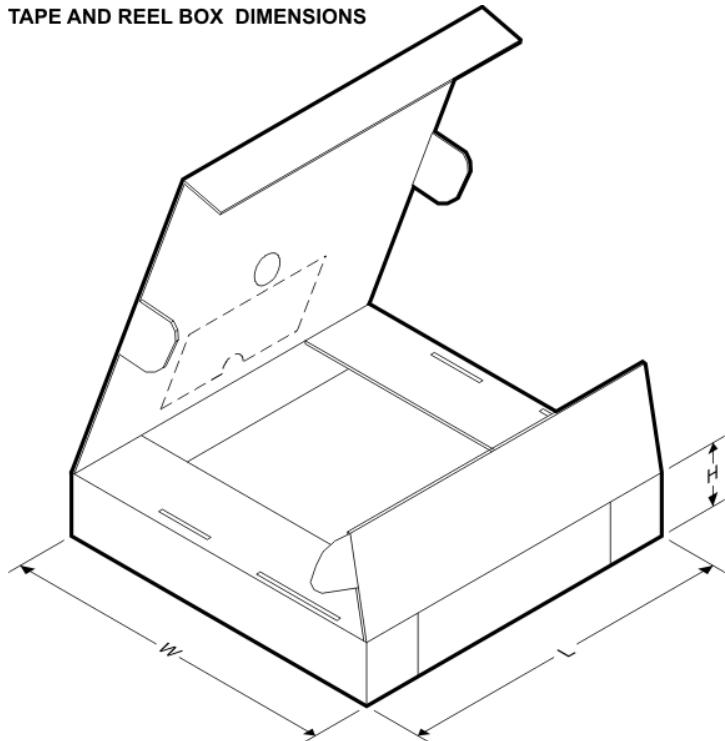
TAPE AND REEL INFORMATION



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN74LV373AIPWRG4Q1	TSSOP	PW	20	2000	330.0	16.4	6.95	7.1	1.6	8.0	16.0	Q1
SN74LV373AIPWRQ1	TSSOP	PW	20	2000	330.0	16.4	6.95	7.1	1.6	8.0	16.0	Q1

TAPE AND REEL BOX DIMENSIONS



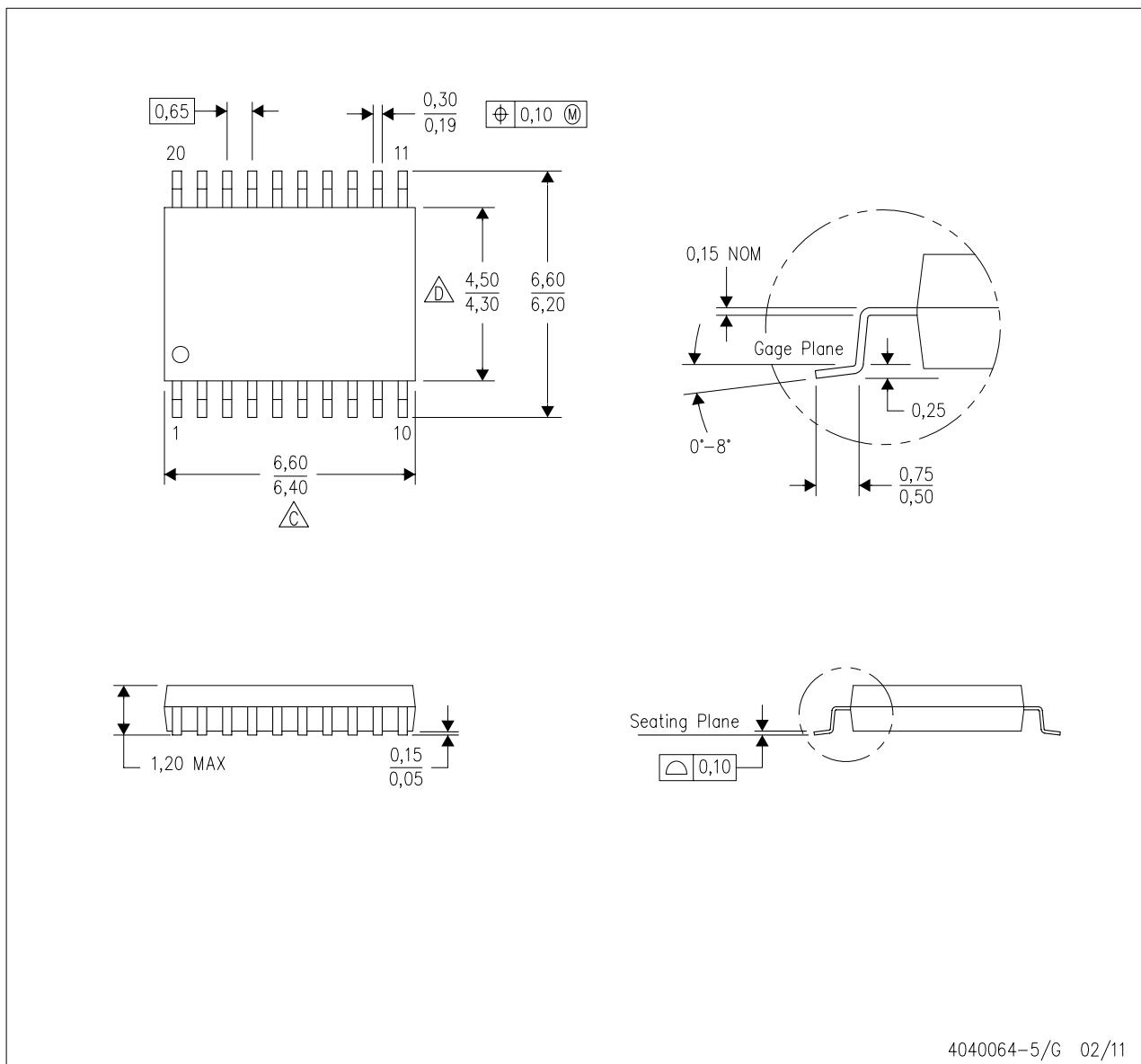
*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74LV373AIPWRG4Q1	TSSOP	PW	20	2000	367.0	367.0	38.0
SN74LV373AIPWRQ1	TSSOP	PW	20	2000	367.0	367.0	38.0

MECHANICAL DATA

PW (R-PDSO-G20)

PLASTIC SMALL OUTLINE



NOTES:

- All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M-1994.
- This drawing is subject to change without notice.
- Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0,15 each side.
- Body width does not include interlead flash. Interlead flash shall not exceed 0,25 each side.
- Falls within JEDEC MO-153

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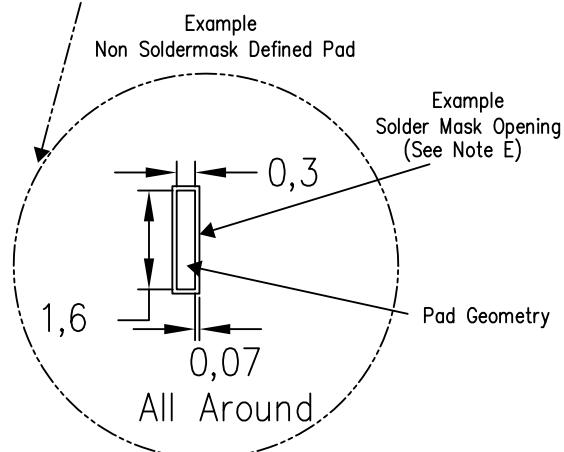
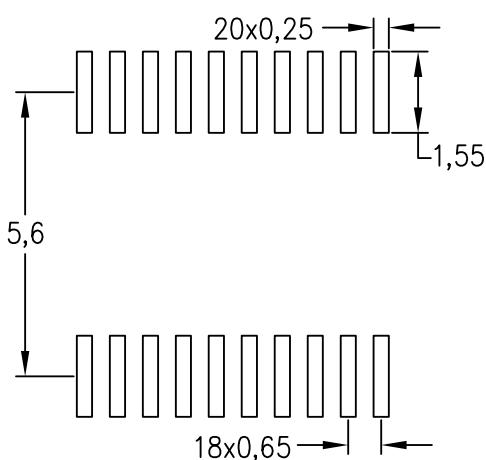
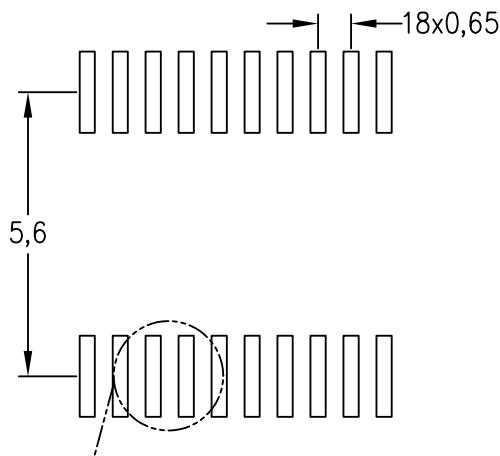
LAND PATTERN DATA

PW (R-PDSO-G20)

PLASTIC SMALL OUTLINE

Example Board Layout

Based on a stencil thickness
of .127mm (.005inch).



4211284-5/G 08/15

NOTES:

- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
- C. Publication IPC-7351 is recommended for alternate design.
- D. 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. Refer to IPC-7525 for other stencil recommendations.
- E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.

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