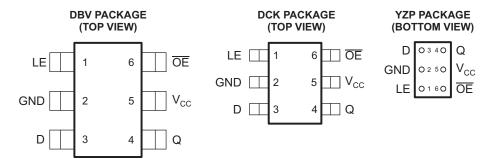


FEATURES

- Available in the Texas Instruments NanoFree™ Package
- Supports 5-V V_{CC} Operation
- Inputs Accept Voltages to 5.5 V
- Max t_{nd} of 4 ns at 3.3 V
- Low Power Consumption, 10-μA Max I_{CC}
- ±24-mA Output Drive at 3.3 V

- 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)
 - 200-V Machine Model (A115-A)
 - 1000-V Charged-Device Model (C101)



See mechanical drawings for dimensions.

DESCRIPTION/ORDERING INFORMATION

This single D-type latch is designed for 1.65-V to 5.5-V V_{CC} operation.

The SN74LVC1G373 is particularly suitable for implementing buffer registers, I/O ports, bidirectional bus drivers, and working registers. 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.

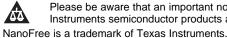
While the latch-enable (LE) input is high, the Q output follows the data (D) input. When LE is taken low, the Q output is latched at the logic level set up at the D input.

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

ORDERING INFORMATION

T _A	PACKAGE ⁽¹⁾⁽²⁾		ORDERING PART NUMBER	TOP-SIDE MARKING(3)	
	NanoFree™ – WCSP (DSBGA) 0.23-mm Large Bump – YZP (Pb-free)	Reel of 3000	SN74LVC1G373YZPR	D3_	
	SOT (SOT 32) DBV	Reel of 3000 SN74LVC1G373DBVR CA3		CAS	
-40°C to 85°C	SOT (SOT-23) – DBV	Reel of 250	SN74LVC1G373DBVT	CA3_	
	SOT (SC 70) DOV		SN74LVC1G373DCKR	Do	
	SOT (SC-70) – DCK	Reel of 250	SN74LVC1G373DCKT	D3_	

- (1) Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.
- 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.
- DCK: 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).



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.

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DESCRIPTION/ORDERING INFORMATION (CONTINUED)

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

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

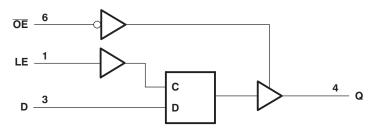
To ensure the high-impedance state during power up or power down, \overline{OE} should be tied to V_{CC} through a pullup resistor; the minimum value of the resistor is determined by the current-sinking capability of the driver.

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.

FUNCTION TABLE

	INPUTS					
ŌĒ	LE	D	Q			
L	Н	L	L			
L	Н	Н	Н			
L	L	X	Q_0			
Н	X	X	Z			

LOGIC DIAGRAM (POSITIVE LOGIC)



SCES528C-DECEMBER 2003-REVISED MAY 2007

SN74LVC1G373 SINGLE D-TYPE LATCH

Absolute Maximum Ratings⁽¹⁾

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

			MIN	MAX	UNIT
V_{CC}	Supply voltage 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-imped	-0.5	6.5	V	
Vo	Voltage range applied to any output in the high or low	-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			±50	mA
	Continuous current through V _{CC} or GND			±100	mA
		DBV package		165	
θ_{JA}	Package thermal impedance (4)	DCK package		259	°C/W
		YZP package		123	
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.

The input and output negative-voltage ratings may be exceeded if the input and output current ratings are observed.

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
\/	Complement	Operating	1.65	5.5	V
V_{CC}	Supply voltage	Data retention only	1.5		V
		V _{CC} = 1.65 V to 1.95 V	$0.65 \times V_{CC}$		
\	High lavel input valtage	V_{CC} = 2.3 V to 2.7 V	1.7		
V_{IH}	High-level input voltage	V _{CC} = 3 V to 3.6 V	2		V
		V _{CC} = 4.5 V to 5.5 V	$0.7 \times V_{CC}$		
		V _{CC} = 1.65 V to 1.95 V		$0.35 \times V_{CC}$	
\/	Low lovel input voltage	V_{CC} = 2.3 V to 2.7 V		0.7	V
V_{IL}	Low-level input voltage	V _{CC} = 3 V to 3.6 V		0.8	V
		V _{CC} = 4.5 V to 5.5 V		$0.3 \times V_{CC}$	
VI	Input voltage		0	5.5	V
Vo	Output voltage		0	V_{CC}	V
		V _{CC} = 1.65 V		-4	
		V _{CC} = 2.3 V		-8	
I_{OH}	High-level output current	V 2.V		-16	mA
		$V_{CC} = 3 V$			
		V _{CC} = 4.5 V		-32	
		V _{CC} = 1.65 V		4	
		V _{CC} = 2.3 V		8	
I_{OL}	Low-level output current	V 2.V		16	mA
		$V_{CC} = 3 V$			
		V _{CC} = 4.5 V			
		V_{CC} = 1.8 V ± 0.15 V, 2.5 V ± 0.2 V		20	
Δt/Δν	Input transition rise or fall rate	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$		10	ns/V
		V _{CC} = 5 V ± 0.5 V	5		
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.



SN74LVC1G373 SINGLE D-TYPE LATCH WITH 3-STATE OUPUT

Electrical Characteristics

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

PARAMETER	TEST CONDITIONS	V _{CC}	MIN	TYP ⁽¹⁾	MAX	UNIT
	$I_{OH} = -100 \ \mu A$	1.65 V to 5.5 V	V _{CC} - 0.1			
	$I_{OH} = -4 \text{ mA}$	1.65 V	1.2			
V	$I_{OH} = -8 \text{ mA}$	2.3 V	1.9			V
V_{OH}	$I_{OH} = -16 \text{ mA}$	3 V	2.4			V
	$I_{OH} = -24 \text{ mA}$	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	
V	I _{OL} = 8 mA	2.3 V			0.3	V
V_{OL}	I _{OL} = 16 mA	3 V			0.4	V
	I _{OL} = 24 mA	3 V			0.55	
	I _{OL} = 32 mA	4.5 V			0.55	
I _I	V _I = 5.5 V or GND	0 to 5.5 V			±1	
I _{OZ}	$V_0 = 0 \text{ to } 5.5 \text{ V}$	3.6 V			±5	
l _{off}	V_I or $V_O = 5.5 \text{ V}$	0			±10	μΑ
I _{CC}	$V_I = 5.5 \text{ V or GND}, \qquad I_O = 0$	1.65 V to 5.5 V			10	
ΔI_{CC}	One input at V_{CC} – 0.6 V, Other inputs at V_{CC} or GND	3 V to 5.5 V			500	
C _i	V _I = V _{CC} or GND	3.3 V		3.5		n.E
Co	$V_O = V_{CC}$ or GND	3.3 V		6		pF

⁽¹⁾ All typical values are at V_{CC} = 3.3 V, T_A = 25°C.

Timing Requirements

over recommended operating free-air temperature range (unless otherwise noted) (see Figure 1)

			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		V _{CC} = 5 V ± 0.5 V	
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
t _w	Pulse duration, LE high	3		3		3		3		ns
t _{su}	Setup time, data before LE↓	2.4		2		1.5		1.5		ns
t _h	Hold time, data after LE↓	2.5		1.5		1.5		1.5		ns

Switching Characteristics

over recommended operating free-air temperature range, $C_L = 15 \text{ pF}$ (unless otherwise noted) (see Figure 1)

PARAMETER	FROM INPUT	TO (OUTPUT)	V _{CC} = ± 0.1	1.8 V 5 V	V _{CC} = 1 ± 0.2		V _{CC} = ± 0.3		V _{CC} =	5 V 5 V	UNIT
	INFOI	(001701)	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
	D	0	2	15	1.5	5	1	4	1	3.5	20
t _{pd}	LE	Q	2	15	1.5	5	1	4	1	3.5	ns
t _{en}	ŌĒ	Q	2	12.5	1.5	4.5	1	4	1	2.5	ns
t _{dis}	ŌĒ	Q	2	14	1.5	7	1	7.9	1	5.3	ns

SN74LVC1G373 SINGLE D-TYPE LATCH WITH 3-STATE OUPUT

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Switching Characteristics

over recommended operating free-air temperature range, $C_L = 30 \text{ pF}$ or 50 pF (unless otherwise noted) (see Figure 2)

PARAMETER	FROM INPUT	TO (OUTPUT)	V _{CC} = ± 0.1	1.8 V 5 V	V _{CC} = ± 0.2		V _{CC} = ± 0.3		V _{CC} = ± 0.5	5 V 5 V	UNIT
	INFOI	(001701)	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
4	D	0	2	16	1.5	7.3	1	5.4	1	4	20
t _{pd}	LE	Q	2	16.3	1.5	7.4	1	5.5	1	4	ns
t _{en}	ŌĒ	Q	2	13	1.5	6.3	1	5.1	1	3.7	ns
t _{dis}	ŌĒ	Q	2	17.4	1	5.9	1	6.5	1	4.6	ns

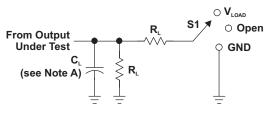
Operating Characteristics

 $T_A = 25^{\circ}C$

	PARAMETER		TEST CONDITIONS	V _{CC} = 1.8 V TYP	V _{CC} = 2.5 V TYP	V _{CC} = 3.3 V TYP	V _{CC} = 5 V TYP	UNIT	
0	Power dissipation	Outputs enabled	f = 10 MHz	19	19	19	20	nE.	
C _{pd}	capacitance	Outputs disabled	I = IO WIHZ	3	3	3	4	pF	



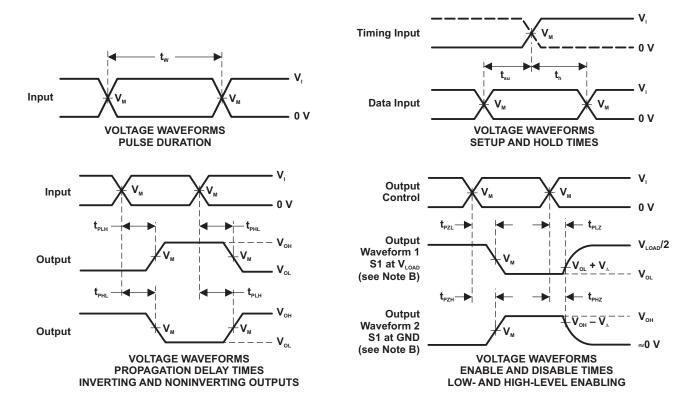
PARAMETER MEASUREMENT INFORMATION



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

LOAD CIRCUIT

.,	INI	PUTS	.,	W		-	.,
V _{cc}	V,	t,/t,	V _M	V _{LOAD}	C _L	R _⊾	V _A
1.8 V ± 0.15 V	V _{cc}	≤2 ns	V _{cc} /2	2 × V _{cc}	15 pF	1 M Ω	0.15 V
2.5 V ± 0.2 V	V _{cc}	≤2 ns	V _{cc} /2	2 × V _{cc}	15 pF	1 M Ω	0.15 V
$3.3~V~\pm~0.3~V$	3 V	≤2.5 ns	1.5 V	6 V	15 pF	1 MΩ	0.3 V
5 V ± 0.5 V	V _{cc}	≤2.5 ns	V _{cc} /2	2 × V _{cc}	15 pF	1 M Ω	0.3 V

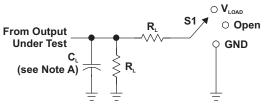


NOTES: A. C. includes probe and jig capacitance.

- 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: $PRR \le 10 \text{ MHz}$, $Z_0 = 50 \Omega$.
- D. The outputs are measured one at a time, with one transition per measurement.
- E. $t_{\mbox{\tiny PLZ}}$ and $\dot{t}_{\mbox{\tiny PHZ}}$ are the same as $t_{\mbox{\tiny dis}}.$
- F. $t_{\mbox{\tiny PZL}}$ and $t_{\mbox{\tiny PZH}}$ are the same as $t_{\mbox{\tiny en}}.$
- G. $t_{Pl\,H}$ and t_{PHl} are the same as t_{rd} .
- H. All parameters and waveforms are not applicable to all devices.

Figure 1. Load Circuit and Voltage Waveforms

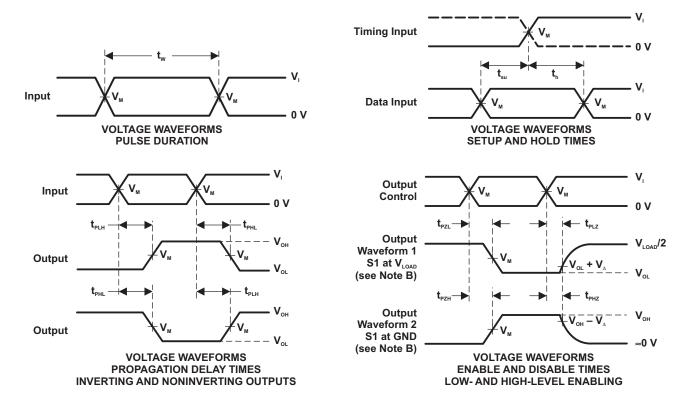




TEST	S1
t _{PLH} /t _{PHL}	Open
t _{PLZ} /t _{PZL}	V _{LOAD}
t _{PHZ} /t _{PZH}	GND

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	INI	PUTS	.,,	V			.,	
V _{cc}	V,	t,/t,	V _M	V _{LOAD}	C _L	$R_{\scriptscriptstyle L}$	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_{o} = 50 Ω .
- D. The outputs are measured one at a time, with one transition per measurement.
- E. t_{PLZ} and t_{PHZ} are the same as $t_{\text{dis}}.$
- F. t_{PZL} and t_{PZH} are the same as t_{en} .
- G. t_{PLH} and t_{PHL} are the same as t_{pd} .
- H. All parameters and waveforms are not applicable to all devices.

Figure 2. Load Circuit and Voltage Waveforms





26-Mar-2013

PACKAGING INFORMATION

Orderable Device	Status	Package Type	Package Drawing		Package Qty	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Top-Side Markings	Samples
74LVC1G373DBVRE4	ACTIVE	SOT-23	DBV	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	(CA35 ~ CA3R)	Samples
74LVC1G373DBVRG4	ACTIVE	SOT-23	DBV	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	(CA35 ~ CA3R)	Samples
74LVC1G373DCKRE4	ACTIVE	SC70	DCK	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	(D35 ~ D3R)	Samples
74LVC1G373DCKRG4	ACTIVE	SC70	DCK	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	(D35 ~ D3R)	Samples
SN74LVC1G373DBVR	ACTIVE	SOT-23	DBV	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	(CA35 ~ CA3R)	Samples
SN74LVC1G373DCKR	ACTIVE	SC70	DCK	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	(D35 ~ D3R)	Samples
SN74LVC1G373YZPR	ACTIVE	DSBGA	YZP	6	3000	Green (RoHS & no Sb/Br)	SNAGCU	Level-1-260C-UNLIM	-40 to 85	(D32 ~ D37)	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.



PACKAGE OPTION ADDENDUM

26-Mar-2013

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.

In no event shall TI's liability arising out of such information exceed the total purchase price of the TI part(s) at issue in this document sold by TI to Customer on an annual basis.

PACKAGE MATERIALS INFORMATION

11-Aug-2012 www.ti.com

TAPE AND REEL INFORMATION

REEL DIMENSIONS





TAPE DIMENSIONS



A0	Dimension designed to accommodate the component width
В0	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

TAPE AND REEL INFORMATION

*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
SN74LVC1G373DBVR	SOT-23	DBV	6	3000	178.0	9.2	3.3	3.2	1.55	4.0	8.0	Q3
SN74LVC1G373DCKR	SC70	DCK	6	3000	178.0	9.2	2.4	2.4	1.22	4.0	8.0	Q3
SN74LVC1G373YZPR	DSBGA	YZP	6	3000	180.0	8.4	1.02	1.52	0.63	4.0	8.0	Q1

www.ti.com 11-Aug-2012



*All dimensions are nominal

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Device	Device Package Type		Package Drawing Pins		Length (mm)	Width (mm)	Height (mm)
SN74LVC1G373DBVR	SOT-23	DBV	6	3000	180.0	180.0	18.0
SN74LVC1G373DCKR	SC70	DCK	6	3000	180.0	180.0	18.0
SN74LVC1G373YZPR	DSBGA	YZP	6	3000	220.0	220.0	34.0

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.



DBV (R-PDSO-G6)

PLASTIC SMALL OUTLINE



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.



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)

PLASTIC SMALL OUTLINE



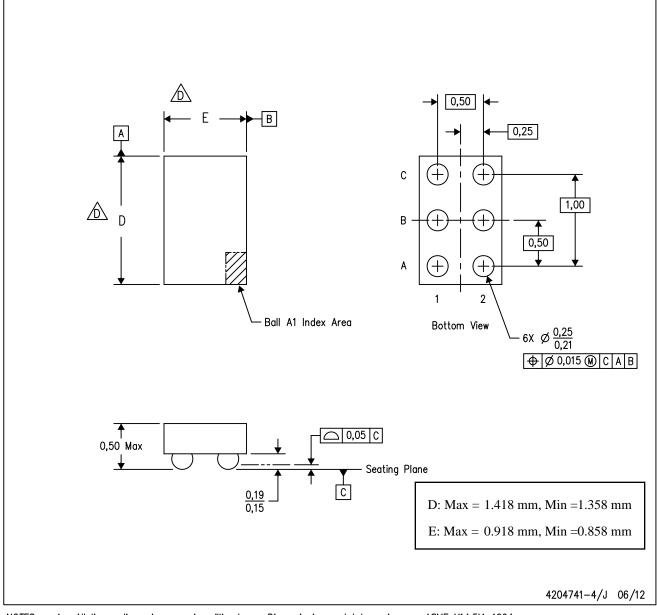
NOTES:

- 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™ package configuration.
- The package size (Dimension D and E) of a particular device is specified in the device Product Data Sheet version of this drawing, in case it cannot be found in the product data sheet please contact a local TI representative.
- E. This package is a Pb-free solder ball design. Refer to the 6 YEP package (drawing 4204725) for tin-lead (SnPb).

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