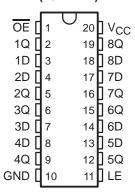
SCLS140D - DECEMBER 1982 - REVISED AUGUST 2003

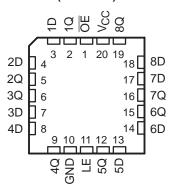
- Wide Operating Voltage Range of 2 V to 6 V
- High-Current 3-State True Outputs Can Drive Up To 15 LSTTL Loads
- Low Power Consumption, 80-μA Max I_{CC}
- Typical t_{pd} = 13 ns

SN54HC373 . . . J OR W PACKAGE SN74HC373 . . . DB, DW, N, NS, OR PW PACKAGE (TOP VIEW)



- ±6-mA Output Drive at 5 V
- Low Input Current of 1 μA Max
- Eight High-Current Latches in a Single Package
- Full Parallel Access for Loading





description/ordering information

These 8-bit latches feature 3-state outputs designed specifically for driving highly capacitive or relatively low-impedance loads. They are particularly suitable for implementing buffer registers, I/O ports, bidirectional bus drivers, and working registers.

The eight latches of the 'HC373 devices are transparent D-type latches. 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 levels that were set up at the D inputs.

ORDERING INFORMATION

TA	PACKA	GE†	ORDERABLE PART NUMBER	TOP-SIDE MARKING
	PDIP – N	Tube of 20	SN74HC373N	SN74HC373N
	COIC DW	Tube of 25	SN74HC373DW	110070
	SOIC – DW	Reel of 2000	SN74HC373DWR	HC373
400C to 050C	SOP - NS	Reel of 2000	SN74HC373NSR	HC373
-40°C to 85°C	SSOP – DB	Reel of 2000	SN74HC373DBR	HC373
		Tube of 70	SN74HC373PW	
	TSSOP - PW	Reel of 2000	SN74HC373PWR	HC373
		Reel of 250	SN74HC373PWT	
	CDIP – J	Tube of 20	SNJ54HC373J	SNJ54HC373J
–55°C to 125°C	CFP – W	Tube of 85	SNJ54HC373W	SNJ54HC373W
	LCCC - FK	Tube of 55	SNJ54HC373FK	SNJ54HC373FK

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



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)

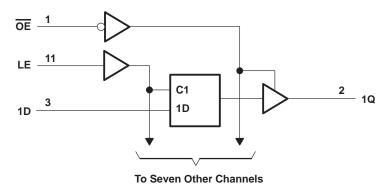
An output-enable (OE) input places the eight outputs in either a normal logic state (high or low logic levels) or the high-impedance state. In the high-impedance state, the outputs neither load nor drive the bus lines significantly. The high-impedance state and increased drive provide the capability to drive bus lines without interface or pullup components.

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 off.

FUNCTION TABLE (each latch)

	INPUTS		OUTPUT
OE	LE	D	Q
L	Н	Н	Н
L	Н	L	L
L	L	Χ	Q_0
Н	X	Χ	Z

logic diagram (positive logic)



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

	0.5 V to 7 V
Input clamp current, I_{IK} ($V_I < 0$ or $V_I > V_{CC}$) (see No	te 1) ±20 mA
Output clamp current, I_{OK} ($V_O < 0$ or $V_O > V_{CC}$) (se	e Note 1) ±20 mA
Continuous output current, $I_O(V_O = 0 \text{ to } V_{CC})$	±35 mA
Continuous current through V _{CC} or GND	±70 mA
Package thermal impedance, θ _{JA} (see Note 2): DB	package 70°C/W
DW	package 58°C/W
N pa	ackage 69°C/W
NS:	package 60°C/W
PW	package 83°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 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 JESD 51-7.

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recommended operating conditions (see Note 3)

			SN	154HC37	'3	SN	174HC37	'3	UNIT
			MIN	NOM	MAX	MIN	NOM	MAX	UNII
VCC	Supply voltage		2	5	6	2	5	6	V
		V _{CC} = 2 V	1.5			1.5			
VIH	High-level input voltage	V _{CC} = 4.5 V	3.15			3.15			V
		V _{CC} = 6 V	4.2			4.2			
		V _{CC} = 2 V			0.5			0.5	
٧ _{IL}	Low-level input voltage	V _{CC} = 4.5 V			1.35			1.35	V
		V _{CC} = 6 V			1.8			1.8	
٧ı	Input voltage		0		VCC	0		VCC	V
VO	Output voltage		0		VCC	0		VCC	V
		V _{CC} = 2 V			1000			1000	
Δt/Δν	Input transition rise/fall time	V _{CC} = 4.5 V			500			500	ns
		V _{CC} = 6 V			400			400	
TA	Operating free-air temperature		-55		125	-40		85	°C

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.

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

24244555	7507.06	MOITIONS	.,	Т	A = 25°C	;	SN54H	IC373	SN74H	C373	LINUT
PARAMETER	IESI CC	ONDITIONS	VCC	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT
			2 V	1.9	1.998		1.9		1.9		
		$I_{OH} = -20 \mu A$	4.5 V	4.4	4.499		4.4		4.4		
Vон	VI = VIH or VIL		6 V	5.9	5.999		5.9		5.9		V
		$I_{OH} = -6 \text{ mA}$	4.5 V	3.98	4.3		3.7		3.84]
		$I_{OH} = -7.8 \text{ mA}$	6 V	5.48	5.8		5.2		5.34		
		I _{OL} = 20 μA	2 V		0.002	0.1		0.1		0.1	
			4.5 V		0.001	0.1		0.1		0.1	
V _{OL}	$V_I = V_{IH}$ or V_{IL}		6 V		0.001	0.1		0.1		0.1	V
		I _{OL} = 6 mA	4.5 V		0.17	0.26		0.4		0.33	
		$I_{OL} = 7.8 \text{ mA}$	6 V		0.15	0.26		0.4		0.33	
lį	$V_I = V_{CC}$ or 0		6 V		±0.1	±100		±1000		±1000	nA
loz	VO = VCC or 0		6 V		±0.01	±0.5		±10		±5	μΑ
Icc	$V_I = V_{CC}$ or 0,	IO = 0	6 V			8		160		80	μΑ
C _i			2 V to 6 V	·	3	10		10		10	pF

SN54HC373, SN74HC373 OCTAL TRANSPARENT D-TYPE LATCHES WITH 3-STATE OUTPUTS

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

			T _A = 2	25°C	SN54H	IC373	SN74H	C373	
		VCC	MIN	MAX	MIN	MAX	MIN	MAX	UNIT
		2 V	80		120		100		
t _w	Pulse duration, LE high	4.5 V	16		24		20		ns
		6 V	14		20		17		
		2 V	50		75		63		
t _{su}	Setup time, data before LE↓	4.5 V	10		15		13		ns
		6 V	9		13		11		
		2 V	20		26		24	·	
th	Hold time, data after LE \downarrow	4.5 V	10		13		12	·	ns
		6 V	10		13		12	·	

switching characteristics over recommended operating free-air temperature range, C_L = 50 pF (unless otherwise noted) (see Figure 1)

	FROM	то		T,	Δ = 25°C		SN54F	IC373	SN74H	IC373		
PARAMETER	(INPUT)	(OUTPUT)	VCC	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT	
			2 V		58	150		225		190		
	D	Q	4.5 V		15	30		45		38		
			6 V		13	26		38		32		
^t pd			2 V		73	175		265		220	ns	
LE	Any Q	4.5 V		18	35		53		44			
			6 V		15	30		45		38		
			2 V		65	150		225		190		
t _{en}	ŌĒ	Any Q	4.5 V		17	30		45		38	ns	
			6 V		14	26		38		32		
			2 V		50	150		225		190		
^t dis	ŌĒ	Any Q	4.5 V		15	30		45		38	ns	
			6 V		13	26		38		32		
			2 V	·	28	60		90		75		
t _t		Any Q	4.5 V		8	12		18		15	ns	
			6 V		6	10		15		13		

SN54HC373, SN74HC373 **OCTAL TRANSPARENT D-TYPE LATCHES** WITH 3-STATE OUTPUTS SCLS140D - DECEMBER 1982 - REVISED AUGUST 2003

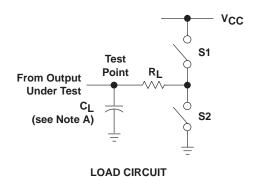
switching characteristics over recommended operating free-air temperature range, C_L = 150 pF (unless otherwise noted) (see Figure 1)

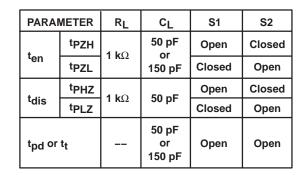
212111	FROM	то	.,	T,	ղ = 25°C	;	SN54H	C373	SN74H	C373																														
PARAMETER	(INPUT)	(OUTPUT)	VCC	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT																													
			2 V		82	200		300		250																														
	D	Q	4.5 V		22	40		60		50																														
			6 V		19	34		51		43																														
^t pd	^t pd		2 V		100	225		335		285	ns																													
	LE	Any Q	4.5 V		24	45		67		57																														
			6 V		20	38		57		48																														
			2 V		90	200		300		250																														
t _{en}	ŌĒ	Any Q	4.5 V		23	40		60		50	ns																													
			6 V		19	34		51		43																														
			2 V		45	210		315		265																														
t _t		Any Q	Any Q	Any Q	Any Q	Any Q	Any Q	Any Q	Any Q	Any Q	Any Q	Any Q	Any Q	Any Q	Any Q	Any Q	Any Q	Any Q	Any Q	Any Q	Any Q	Any Q	Any Q	Any Q	Any Q	Any Q	Any Q	Any Q	Any Q	Any Q	Any Q	4.5 V		17	42		63		53	ns
			6 V		13	36	_	53		45																														

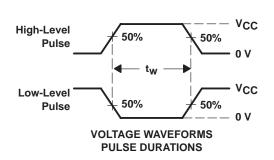
operating characteristics, $T_A = 25^{\circ}C$

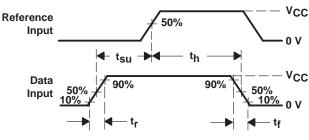
		PARAMETER	TEST CONDITIONS	TYP	UNIT
ſ	C _{pd}	Power dissipation capacitance per latch	No load	100	pF

PARAMETER MEASUREMENT INFORMATION

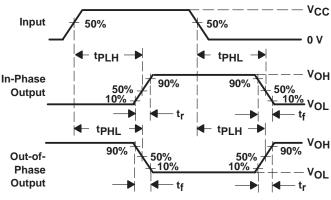


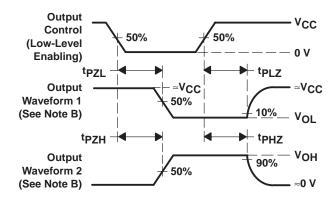






VOLTAGE WAVEFORMS
SETUP AND HOLD AND INPUT RISE AND FALL TIMES





VOLTAGE WAVEFORMS
PROPAGATION DELAY AND OUTPUT TRANSITION TIMES

VOLTAGE WAVEFORMS
ENABLE AND DISABLE TIMES FOR 3-STATE OUTPUTS

- NOTES: A. C_L includes probe and test-fixture 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. Phase relationships between waveforms were chosen arbitrarily. All input pulses are supplied by generators having the following characteristics: PRR \leq 1 MHz, $Z_O = 50 \ \Omega$, $t_f = 6 \ ns$, $t_f = 6 \ ns$.
 - D. The outputs are measured one at a time with one input transition per measurement.
 - E. tpl 7 and tpH7 are the same as tdis.
 - F. tpzL and tpzH are the same as ten.
 - G. tpLH and tpHL are the same as tpd.

Figure 1. Load Circuit and Voltage Waveforms





2-Sep-2010

PACKAGING INFORMATION

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan ⁽²⁾	Lead/ Ball Finish	MSL Peak Temp ⁽³⁾	Samples (Requires Login)
5962-8407201VRA	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type	Purchase Samples
5962-8407201VSA	ACTIVE	CFP	W	20	1	TBD	Call TI	N / A for Pkg Type	Purchase Samples
84072012A	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type	Purchase Samples
8407201RA	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type	Purchase Samples
8407201SA	ACTIVE	CFP	W	20	1	TBD	Call TI	N / A for Pkg Type	Purchase Samples
JM38510/65403B2A	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type	Contact TI Distributo or Sales Office
JM38510/65403BRA	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type	Contact TI Distributo or Sales Office
SN54HC373J	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type	Contact TI Distributo or Sales Office
SN74HC373DBLE	OBSOLETE	SSOP	DB	20		TBD	Call TI	Call TI	Samples Not Availab
SN74HC373DBR	ACTIVE	SSOP	DB	20	2000	Green (RoHS & no Sb/Br)	Call TI	Level-1-260C-UNLIM	Contact TI Distribute or Sales Office
SN74HC373DBRE4	ACTIVE	SSOP	DB	20	2000	Green (RoHS & no Sb/Br)	Call TI	Level-1-260C-UNLIM	Contact TI Distribute or Sales Office
SN74HC373DBRG4	ACTIVE	SSOP	DB	20	2000	Green (RoHS & no Sb/Br)	Call TI	Level-1-260C-UNLIM	Contact TI Distribute or Sales Office
SN74HC373DW	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Purchase Samples
SN74HC373DWE4	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Purchase Samples
SN74HC373DWG4	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Purchase Samples
SN74HC373DWR	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Contact TI Distribute or Sales Office
SN74HC373DWRE4	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Contact TI Distribute or Sales Office
SN74HC373DWRG4	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Contact TI Distribute or Sales Office
SN74HC373N	ACTIVE	PDIP	N	20	20	Pb-Free (RoHS)	Call TI	N / A for Pkg Type	Contact TI Distribute or Sales Office
SN74HC373N3	OBSOLETE	PDIP	N	20		TBD	Call TI	Call TI	Samples Not Availab





2-Sep-2010

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan ⁽²⁾	Lead/ Ball Finish	MSL Peak Temp ⁽³⁾	Samples (Requires Login)
SN74HC373NE4	ACTIVE	PDIP	N	20	20	Pb-Free (RoHS)	Call TI	N / A for Pkg Type	Contact TI Distributor or Sales Office
SN74HC373NSR	ACTIVE	SO	NS	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Contact TI Distributor or Sales Office
SN74HC373NSRE4	ACTIVE	SO	NS	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Contact TI Distributor or Sales Office
SN74HC373NSRG4	ACTIVE	SO	NS	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Contact TI Distributor or Sales Office
SN74HC373PW	ACTIVE	TSSOP	PW	20	70	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Purchase Samples
SN74HC373PWE4	ACTIVE	TSSOP	PW	20	70	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Purchase Samples
SN74HC373PWG4	ACTIVE	TSSOP	PW	20	70	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Purchase Samples
SN74HC373PWLE	OBSOLETE	TSSOP	PW	20		TBD	Call TI	Call TI	Samples Not Available
SN74HC373PWR	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Contact TI Distributor or Sales Office
SN74HC373PWRE4	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Contact TI Distributor or Sales Office
SN74HC373PWRG4	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Contact TI Distributor or Sales Office
SN74HC373PWT	ACTIVE	TSSOP	PW	20	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Purchase Samples
SN74HC373PWTE4	ACTIVE	TSSOP	PW	20	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Purchase Samples
SN74HC373PWTG4	ACTIVE	TSSOP	PW	20	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Purchase Samples
SNJ54HC373FK	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type	Contact TI Distributor
SNJ54HC373J	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type	Contact TI Distributor or Sales Office
SNJ54HC373W	ACTIVE	CFP	W	20	1	TBD	Call TI	N / A for Pkg Type	Contact TI Distributo or Sales Office

(1) The marketing status values are defined as follows: **ACTIVE**: Product device recommended for new designs.





www.ti.com 2-Sep-2010

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.

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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.

OTHER QUALIFIED VERSIONS OF SN54HC373. SN54HC373-SP. SN74HC373:

Catalog: SN74HC373, SN54HC373

Military: SN54HC373

Space: SN54HC373-SP

NOTE: Qualified Version Definitions:

- Catalog TI's standard catalog product
- Military QML certified for Military and Defense Applications
- Space Radiation tolerant, ceramic packaging and qualified for use in Space-based application

PACKAGE MATERIALS INFORMATION

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TAPE AND REEL INFORMATION





	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
SN74HC373DBR	SSOP	DB	20	2000	330.0	16.4	8.2	7.5	2.5	12.0	16.0	Q1
SN74HC373DWR	SOIC	DW	20	2000	330.0	24.4	10.8	13.0	2.7	12.0	24.0	Q1
SN74HC373NSR	SO	NS	20	2000	330.0	24.4	8.2	13.0	2.5	12.0	24.0	Q1
SN74HC373PWR	TSSOP	PW	20	2000	330.0	16.4	6.95	7.1	1.6	8.0	16.0	Q1
SN74HC373PWT	TSSOP	PW	20	250	330.0	16.4	6.95	7.1	1.6	8.0	16.0	Q1

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*All dimensions are nominal

7 til diffictioiono are nominal							
Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74HC373DBR	SSOP	DB	20	2000	346.0	346.0	33.0
SN74HC373DWR	SOIC	DW	20	2000	346.0	346.0	41.0
SN74HC373NSR	SO	NS	20	2000	346.0	346.0	41.0
SN74HC373PWR	TSSOP	PW	20	2000	346.0	346.0	33.0
SN74HC373PWT	TSSOP	PW	20	250	346.0	346.0	33.0

14 LEADS SHOWN



- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. This package is hermetically sealed with a ceramic lid using glass frit.
- D. Index point is provided on cap for terminal identification only on press ceramic glass frit seal only.
- E. Falls within MIL STD 1835 GDIP1-T14, GDIP1-T16, GDIP1-T18 and GDIP1-T20.

W (R-GDFP-F20)

CERAMIC DUAL FLATPACK



- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. This package can be hermetically sealed with a ceramic lid using glass frit.
- D. Index point is provided on cap for terminal identification only.
- E. Falls within Mil-Std 1835 GDFP2-F20



FK (S-CQCC-N**)

28 TERMINAL SHOWN

LEADLESS CERAMIC CHIP CARRIER



NOTES: A. All linear dimensions are in inches (millimeters).

- B. This drawing is subject to change without notice.
- C. This package can be hermetically sealed with a metal lid.
- D. The terminals are gold plated.
- E. Falls within JEDEC MS-004



N (R-PDIP-T**)

PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN



- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- Falls within JEDEC MS-001, except 18 and 20 pin minimum body length (Dim A).
- The 20 pin end lead shoulder width is a vendor option, either half or full width.



DW (R-PDSO-G20)

PLASTIC SMALL OUTLINE

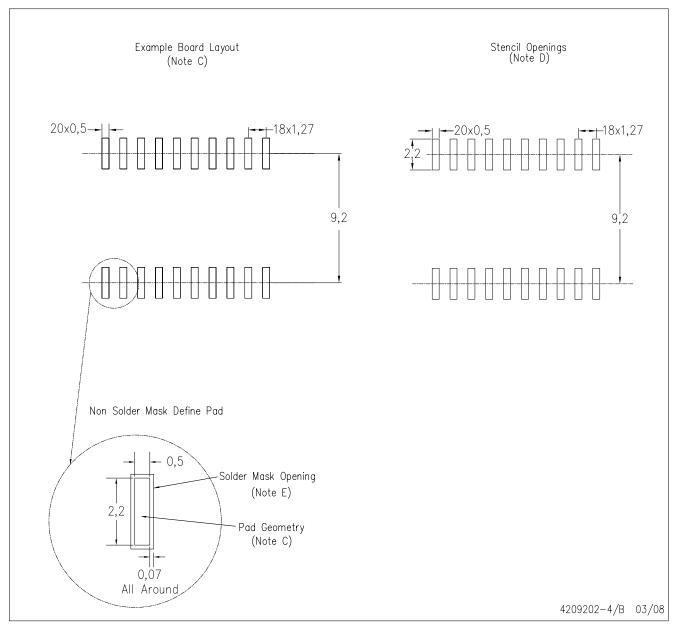


NOTES: A. All linear dimensions are in inches (millimeters). Dimensioning and tolerancing per ASME Y14.5M-1994.

- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion not to exceed 0.006 (0,15).
- D. Falls within JEDEC MS-013 variation AC.



DW (R-PDSO-G20)



- 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. 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
- E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.



MECHANICAL DATA

NS (R-PDSO-G**)

14-PINS SHOWN

PLASTIC SMALL-OUTLINE PACKAGE



- 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, not to exceed 0,15.



DB (R-PDSO-G**)

PLASTIC SMALL-OUTLINE

28 PINS SHOWN



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 not to exceed 0,15.

D. Falls within JEDEC MO-150

PW (R-PDSO-G**)

14 PINS SHOWN

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 not to exceed 0,15.

D. Falls within JEDEC MO-153

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