- Operating Range 2-V to 5.5-V V_{CC}
- 3-State Outputs Directly Drive Bus Lines
- Latch-Up Performance Exceeds 250 mA Per JESD 17

description/ordering information

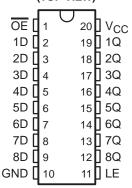
The 'AHC573 devices are octal transparent D-type latches designed for 2-V to 5.5-V V_{CC} operation.

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

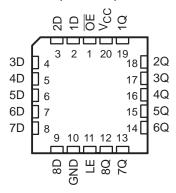
A buffered output-enable (\overline{OE}) input can be used to place the eight outputs in either a normal logic state (high or low) or the high-impedance state. In the high-impedance state, the outputs neither load nor drive the bus lines significantly. The high-impedance state and increased drive provide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

SN54AHC573 . . . J OR W PACKAGE SN74AHC573 . . . DB, DGV, DW, N, NS, OR PW PACKAGE (TOP VIEW)



SN54AHC573 . . . FK PACKAGE (TOP VIEW)



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.

ORDERING INFORMATION

TA	PACKA	GEŤ	ORDERABLE PART NUMBER	TOP-SIDE MARKING
	PDIP – N	Tube	SN74AHC573N	SN74AHC573N
	SOIC - DW	Tube	SN74AHC573DW	AHC573
	30IC - DW	Tape and reel	SN74AHC573DWR	Ancoro
-40°C to 85°C	SOP – NS	Tape and reel	SN74AHC573NSR	AHC573
-40 C 10 03 C	SSOP – DB	Tape and reel	SN74AHC573DBR	HA573
	TOOOD DW	Tube	SN74AHC573PW	114570
	TSSOP – PW	Tape and reel	SN74AHC573PWR	HA573
	TVSOP – DGV	Tape and reel	SN74AHC573DGVR	HA573
	CDIP – J	Tube	SNJ54AHC573J	SNJ54AHC573J
-55°C to 125°C	CFP – W	Tube	SNJ54AHC573W	SNJ54AHC573W
	LCCC - FK	Tube	SNJ54AHC573FK	SNJ54AHC573FK

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



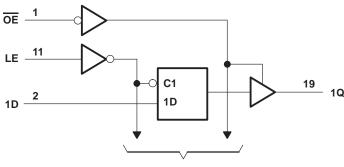
Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.



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)



To Seven Other Channels

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

Supply voltage range, V _{CC}		–0.5 V to 7 V
Input voltage range, V _I (see Note 1)		–0.5 V to 7 V
Output voltage range, VO (see Note 1)		. -0.5 V to V _{CC} + 0.5 V
Input clamp current, I _{IK} (V _I < 0)		–20 mA
Output clamp current, IOK (VO < 0 or VO > VCO	c)	±20 mA
Continuous output current, I_O ($V_O = 0$ to V_{CC})	·	±25 mA
Continuous current through V _{CC} or GND		±75 mA
Package thermal impedance, θ _{JA} (see Note 2):	: DB package	70°C/W
	DGV package	92°C/W
	DW package	58°C/W
	N package	69°C/W
	NS package	60°C/W
	PW package	83°C/W
Storage temperature range, T _{stg}		–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.



recommended operating conditions (see Note 3)

			SN54A	HC573	SN74A	HC573	
			MIN	MAX	MIN	MAX	UNIT
Vcc	Supply voltage		2	5.5	2	5.5	V
		V _{CC} = 2 V	1.5		1.5		
V_{IH}	High-level input voltage	V _{CC} = 3 V	2.1		2.1		V
		V _{CC} = 5.5 V	3.85		3.85		
		V _{CC} = 2 V		0.5		0.5	
VIL	Low-level input voltage	V _{CC} = 3 V		0.9		0.9	V
		V _{CC} = 5.5 V		1.65		1.65	
٧ı	Input voltage		0	5.5	0	5.5	V
٧o	Output voltage		0	Vcc	0	Vcc	V
		V _{CC} = 2 V		-50		-50	μΑ
loh	High-level output current	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$		-4		-4	4
		$V_{CC} = 5 V \pm 0.5 V$		-8		-8	mA
		V _{CC} = 2 V		50		50	μΑ
loL	Low-level output current	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$		4		4	^
		$V_{CC} = 5 V \pm 0.5 V$		8		8	mA
		$V_{CC} = 3.3 V \pm 0.3 V$		100		100	2.4
$\Delta t/\Delta v$	Input transition rise or fall rate	$V_{CC} = 5 V \pm 0.5 V$		20		20	ns/V
T _A	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)

		.,	T,	Δ = 25°C	;	SN54A	HC573	SN74AI	HC573	
PARAMETER	TEST CONDITIONS	VCC	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT
		2 V	1.9	2		1.9		1.9		
	I _{OH} = -50 μA	3 V	2.9	3		2.9		2.9		
∨он		4.5 V	4.4	4.5		4.4		4.4		V
.	I _{OH} = -4 mA	3 V	2.58			2.48		2.48		
	I _{OH} = -8 mA	4.5 V	3.94			3.8		3.8		
		2 V			0.1		0.1		0.1	
	I _{OL} = 50 μA	3 V			0.1		0.1		0.1	
VOL		4.5 V			0.1		0.1		0.1	V
	I _{OL} = 4 mA	3 V			0.36		0.5		0.44	
	I _{OL} = 8 mA	4.5 V			0.36		0.5		0.44	
lį	V _I = 5.5 V or GND	0 V to 5.5 V			±0.1		±1*		±1	μА
loz	$V_I = V_{IL}$ or V_{IH} , $V_O = V_{CC}$ or GND	5.5 V			±0.25		±2.5		±2.5	μΑ
Icc	$V_I = V_{CC}$ or GND, $I_O = 0$	5.5 V			4		40		40	μΑ
C _i	V _I = V _{CC} or GND	5 V		2.5	10				10	pF
Co	$V_O = V_{CC}$ or GND	5 V		3.5						pF

 $^{^{\}star}$ On products compliant to MIL-PRF-38535, this parameter is not production tested at V_{CC} = 0 V.



SN54AHC573, SN74AHC573 OCTAL TRANSPARENT D-TYPE LATCHES WITH 3-STATE OUTPUTS

SCLS242K - OCTOBER 1995 - REVISED JANUARY 2004

timing requirements over recommended operating free-air temperature range, V_{CC} = 3.3 V \pm 0.3 V (unless otherwise noted) (see Figure 1)

		T _A = 25°C SN54AHC573		SN74AI				
		MIN	MAX	MIN	MAX	MIN	MAX	UNIT
t _W	Pulse duration, LE high	5		5		5		ns
t _{su}	Setup time, data before LE↓	3.5		3.5		3.5		ns
th	Hold time, data after LE↓	1.5		1.5		1.5		ns

timing requirements over recommended operating free-air temperature range, V_{CC} = 5 V \pm 0.5 V (unless otherwise noted) (see Figure 1)

		$T_A = 2$	25°C	SN54AI	HC573	SN74AI	HC573	LINUT
		MIN	MAX	MIN	MAX	MIN	MAX	UNIT
t _W	Pulse duration, LE high	5		5		5		ns
t _{su}	Setup time, data before LE↓	3.5		3.5		3.5		ns
th	Hold time, data after LE↓	1.5		1.5		1.5		ns

switching characteristics over recommended operating free-air temperature range, V_{CC} = 3.3 V \pm 0.3 V (unless otherwise noted) (see Figure 1)

DADAMETED	FROM	то	LOAD	T	λ = 25°C	;	SN54A	HC573	SN74AI	LINUT	
PARAMETER	(INPUT)	(OUTPUT)	CAPACITANCE	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT
^t PLH	-	0	0: 45 = 5		7*	11*	1*	13*	1	13	
^t PHL	D	Q	C _L = 15 pF		7*	11*	1*	13*	1	13	ns
^t PLH	LE	0	C: 15 pF		7.6*	11.9*	1*	14*	1	14	20
^t PHL	LE	Q	C _L = 15 pF		7.6*	11.9*	1*	14*	1	14	ns
^t PZH	ŌĒ	Q	C: 15 pF		7.3*	11.5*	1*	13.5*	1	13.5	20
^t PZL	OE	Q	C _L = 15 pF		7.3*	11.5*	1*	13.5*	1	13.5	ns
^t PHZ	ŌĒ	Q	C _I = 15 pF		8.3*	11*	1*	13*	1	13	20
^t PLZ	OE	Q	CL = 15 pr		8.3*	11*	1*	13*	1	13	ns
^t PLH	D	Q	C _L = 50 pF		9.5	14.5	1	16.5	1	16.5	20
^t PHL	D	Q	CL = 50 pr		9.5	14.5	1	16.5	1	16.5	ns
^t PLH	LE	Q	C: F0 nF		10.1	15.4	1	17.5	1	17.5	20
^t PHL	LE	Q	C _L = 50 pF		10.1	15.4	1	17.5	1	17.5	ns
^t PZH	ŌĒ	Q	C: - F0 pF		9.8	15	1	17	1	17	20
^t PZL	OE	Q	C _L = 50 pF		9.8	15	1	17	1	17	ns
^t PHZ	<u>OE</u>	Q	C _L = 50 pF		10.7	14.5	1	16.5	1	16.5	ns
^t PLZ	OE	Ų	OL = 50 pr		10.7	14.5	1	16.5	1	16.5	115
^t sk(o)			C _L = 50 pF			1.5**				1.5	ns

^{*} On products compliant to MIL-PRF-38535, this parameter is not production tested.



^{**} On products compliant to MIL-PRF-38535, this parameter does not apply.

switching characteristics over recommended operating free-air temperature range, V_{CC} = 5 V \pm 0.5 V (unless otherwise noted) (see Figure 1)

	FROM	то	LOAD	T,	ղ = 25°C	;	SN54A	HC573	SN74A	HC573	
PARAMETER	(INPUT)	(OUTPUT)	CAPACITANCE	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT
t _{PLH}	D	_	0. 45 = 5		4.5*	6.8*	1	8*	1	8	
^t PHL	D	Q	C _L = 15 pF		4.5*	6.8*	1	8*	1	8	ns
^t PLH		_	0 455		5*	7.7*	1	9*	1	9	
^t PHL	LE	Q	C _L = 15 pF		5*	7.7*	1	9*	1	9	ns
^t PZH	ŌĒ	_	0 455		5.2*	7.7*	1	9*	1	9	
tpZL	OE	Q	C _L = 15 pF		5.2*	7.7*	1	9*	1	9	ns
^t PHZ	ŌĒ	_	0 455		5.2*	7.7*	1	9*	1	9	
tPLZ	OE	Q	C _L = 15 pF		5.2*	7.7*	1	9*	1	9	ns
tPLH		_	0 50 5		6	8.8	1	10	1	10	
tPHL	D	Q	C _L = 50 pF		6	8.8	1	10	1	10	ns
t _{PLH}		_	0 50 5		6.5	9.7	1	11	1	11	
^t PHL	LE	Q	C _L = 50 pF		6.5	9.7	1	11	1	11	ns
^t PZH	ŌĒ	_	0 50 5		6.7	9.7	1	11	1	11	
tpzL	OE	Q	C _L = 50 pF		6.7	9.7	1	11	1	11	ns
^t PHZ	ŌĒ	_	0 50 5		6.7	9.7	1	11	1	11	
tPLZ	OE	Q	$C_L = 50 \text{ pF}$		6.7	9.7	1	11	1	11	ns I
t _{sk(o)}			C _L = 50 pF			1**				1	ns

^{*} On products compliant to MIL-PRF-38535, this parameter is not production tested.
** On products compliant to MIL-PRF-38535, this parameter does not apply.

noise characteristics, V_{CC} = 5 V, C_L = 50 pF, T_A = 25°C (see Note 4)

	DADAMETED	SN74AI	HC573	
	_(V) Quiet output, minimum dynamic V _{OL}		MAX	UNIT
VOL(P)	Quiet output, maximum dynamic V _{OL}		1	V
V _{OL} (V)	Quiet output, minimum dynamic V _{OL}		-0.8	V
V _{OH(V)}	Quiet output, minimum dynamic V _{OH}	4		V
VIH(D)	High-level dynamic input voltage	3.5		V
V _{IL(D)}	Low-level dynamic input voltage		1.5	V

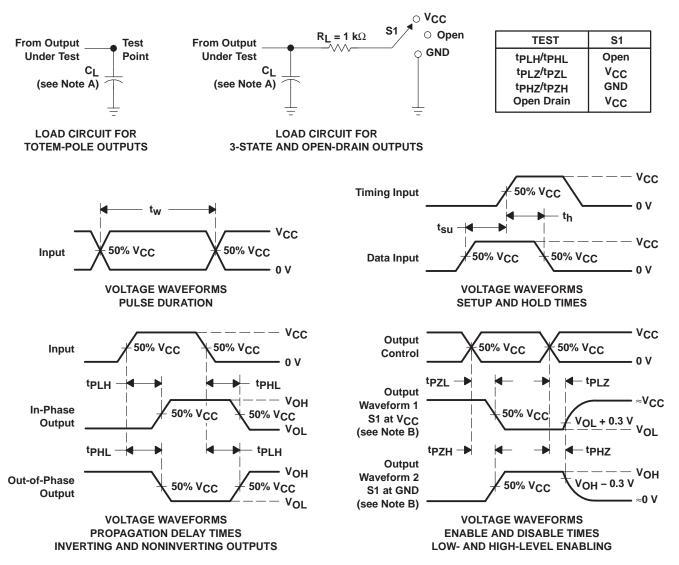
NOTE 4: Characteristics are for surface-mount packages only.

operating characteristics, $V_{CC} = 5 \text{ V}$, $T_A = 25^{\circ}\text{C}$

	PARAMETER	TEST C	ONDITIONS	TYP	UNIT
C _{pd}	Power dissipation capacitance	No load,	f = 1 MHz	16	pF



PARAMETER MEASUREMENT INFORMATION



NOTES: A. C_I 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.
- All input pulses are supplied by generators having the following characteristics: PRR \leq 1 MHz, $Z_O = 50 \Omega$, $t_f \leq$ 3 ns. $t_f \leq$ 3 ns.
- D. The outputs are measured one at a time with one input transition per measurement.
- E. All parameters and waveforms are not applicable to all devices.

Figure 1. Load Circuit and Voltage Waveforms







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PACKAGING INFORMATION

Orderable Device		Package Type	Package Drawing	Pins	Package Qty	Eco Plan	Lead/Ball Finish		Op Temp (°C)		Samples
5962-9685601Q2A	ACTIVE	LCCC	FK	20	1	TBD	Call TI	(3) Call TI	-55 to 125	(4) 5962- 9685601Q2A SNJ54AHC 573FK	Samples
5962-9685601QRA	ACTIVE	CDIP	J	20	1	TBD	Call TI	Call TI	-55 to 125	5962-9685601QR A SNJ54AHC573J	Samples
5962-9685601QSA	ACTIVE	CFP	W	20	1	TBD	Call TI	Call TI	-55 to 125	5962-9685601QS A SNJ54AHC573W	Samples
SN74AHC573DBLE	OBSOLETE	SSOP	DB	20		TBD	Call TI	Call TI	-40 to 85		
SN74AHC573DBR	ACTIVE	SSOP	DB	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HA573	Samples
SN74AHC573DBRE4	ACTIVE	SSOP	DB	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HA573	Samples
SN74AHC573DBRG4	ACTIVE	SSOP	DB	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HA573	Samples
SN74AHC573DGVR	ACTIVE	TVSOP	DGV	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HA573	Samples
SN74AHC573DGVRE4	ACTIVE	TVSOP	DGV	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HA573	Samples
SN74AHC573DGVRG4	ACTIVE	TVSOP	DGV	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HA573	Samples
SN74AHC573DW	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AHC573	Samples
SN74AHC573DWE4	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AHC573	Samples
SN74AHC573DWG4	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AHC573	Samples
SN74AHC573DWR	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AHC573	Samples
SN74AHC573DWRE4	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AHC573	Samples
SN74AHC573DWRG4	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AHC573	Samples



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Orderable Device	Status	Package Type	Package Drawing	Pins	Package Qty	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Top-Side Markings	Samples
SN74AHC573N	ACTIVE	PDIP	N	20	20	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	-40 to 85	SN74AHC573N	Sample
SN74AHC573NE4	ACTIVE	PDIP	N	20	20	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	-40 to 85	SN74AHC573N	Sample
SN74AHC573NSR	ACTIVE	SO	NS	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AHC573	Sample
SN74AHC573NSRE4	ACTIVE	SO	NS	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AHC573	Sample
SN74AHC573NSRG4	ACTIVE	SO	NS	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AHC573	Sample
SN74AHC573PW	ACTIVE	TSSOP	PW	20	70	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HA573	Sample
SN74AHC573PWE4	ACTIVE	TSSOP	PW	20	70	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HA573	Sample
SN74AHC573PWG4	ACTIVE	TSSOP	PW	20	70	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HA573	Sample
SN74AHC573PWLE	OBSOLETE	TSSOP	PW	20		TBD	Call TI	Call TI	-40 to 85		
SN74AHC573PWR	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HA573	Sample
SN74AHC573PWRE4	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HA573	Sample
SN74AHC573PWRG4	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HA573	Sample
SNJ54AHC573FK	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type	-55 to 125	5962- 9685601Q2A SNJ54AHC 573FK	Sample
SNJ54AHC573J	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type	-55 to 125	5962-9685601QR A SNJ54AHC573J	Sample
SNJ54AHC573W	ACTIVE	CFP	W	20	1	TBD	Call TI	N / A for Pkg Type	-55 to 125	5962-9685601QS A SNJ54AHC573W	Sample

(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.





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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) Only one of markings shown within the brackets will appear on the physical device.

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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 SN54AHC573, SN74AHC573:

Catalog: SN74AHC573

Automotive: SN74AHC573-Q1, SN74AHC573-Q1

Military: SN54AHC573

NOTE: Qualified Version Definitions:

Catalog - TI's standard catalog product

Automotive - Q100 devices qualified for high-reliability automotive applications targeting zero defects





24-Jan-2013

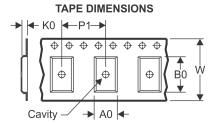
• Military - QML certified for Military and Defense Applications

PACKAGE MATERIALS INFORMATION

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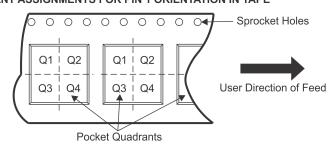
TAPE AND REEL INFORMATION





	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

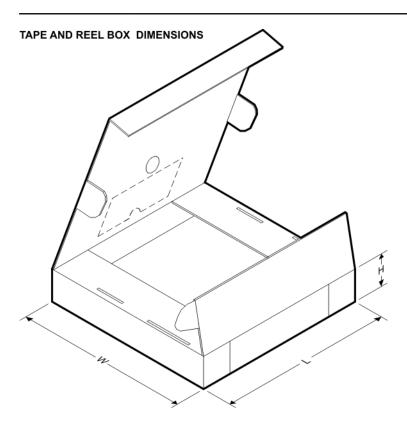
QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*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
SN74AHC573DBR	SSOP	DB	20	2000	330.0	16.4	8.2	7.5	2.5	12.0	16.0	Q1
SN74AHC573DGVR	TVSOP	DGV	20	2000	330.0	12.4	6.9	5.6	1.6	8.0	12.0	Q1
SN74AHC573DWR	SOIC	DW	20	2000	330.0	24.4	10.8	13.0	2.7	12.0	24.0	Q1
SN74AHC573NSR	SO	NS	20	2000	330.0	24.4	8.2	13.0	2.5	12.0	24.0	Q1
SN74AHC573PWR	TSSOP	PW	20	2000	330.0	16.4	6.95	7.1	1.6	8.0	16.0	Q1
SN74AHC573PWR	TSSOP	PW	20	2000	330.0	16.4	6.95	7.1	1.6	8.0	16.0	Q1
SN74AHC573PWRG4	TSSOP	PW	20	2000	330.0	16.4	6.95	7.1	1.6	8.0	16.0	Q1

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*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74AHC573DBR	SSOP	DB	20	2000	367.0	367.0	38.0
SN74AHC573DGVR	TVSOP	DGV	20	2000	367.0	367.0	35.0
SN74AHC573DWR	SOIC	DW	20	2000	367.0	367.0	45.0
SN74AHC573NSR	SO	NS	20	2000	367.0	367.0	45.0
SN74AHC573PWR	TSSOP	PW	20	2000	367.0	367.0	38.0
SN74AHC573PWR	TSSOP	PW	20	2000	364.0	364.0	27.0
SN74AHC573PWRG4	TSSOP	PW	20	2000	367.0	367.0	38.0

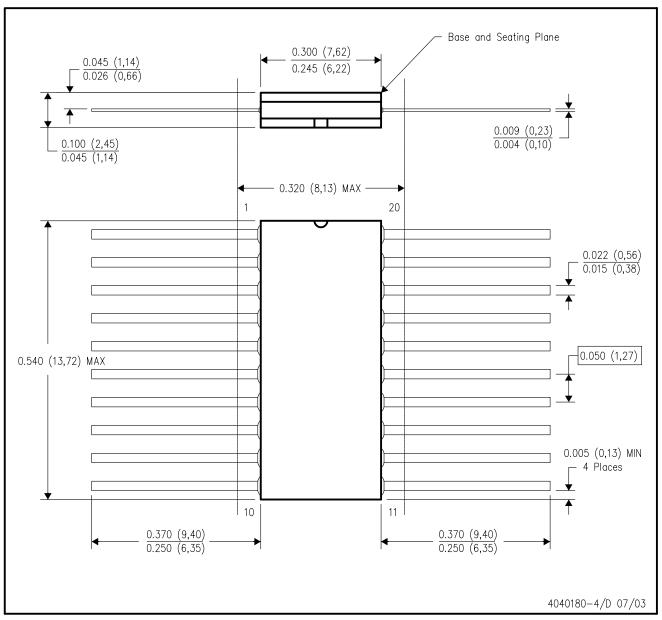
14 LEADS SHOWN



- 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**)

LEADLESS CERAMIC CHIP CARRIER

28 TERMINAL SHOWN



- 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. 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.



DGV (R-PDSO-G**)

24 PINS SHOWN

PLASTIC SMALL-OUTLINE



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 per side.

D. Falls within JEDEC: 24/48 Pins – MO-153 14/16/20/56 Pins – MO-194 DW (R-PDSO-G20)

PLASTIC SMALL OUTLINE



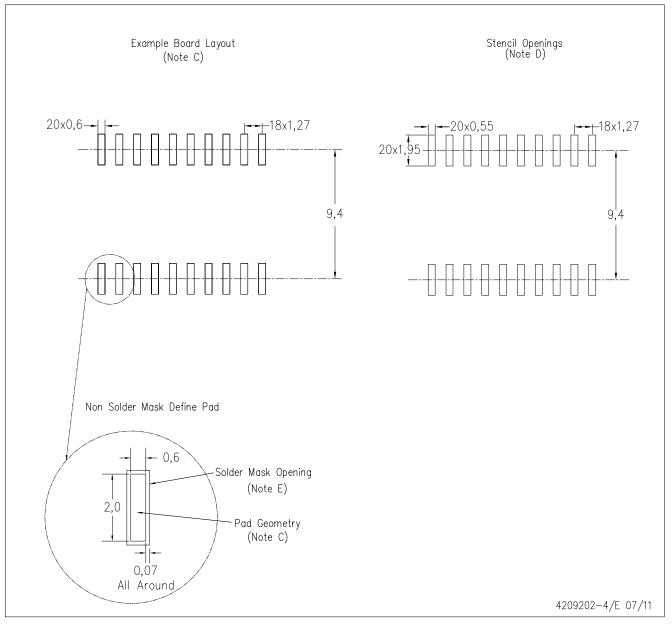
NOTES: A. All linear dimensions are in inches (millimeters). Dimensioning and tolerancing per ASME Y14.5M-1994.

- 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)

PLASTIC SMALL OUTLINE



- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
- C. Refer to IPC7351 for alternate board 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
- E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.



PW (R-PDSO-G20)

PLASTIC SMALL OUTLINE

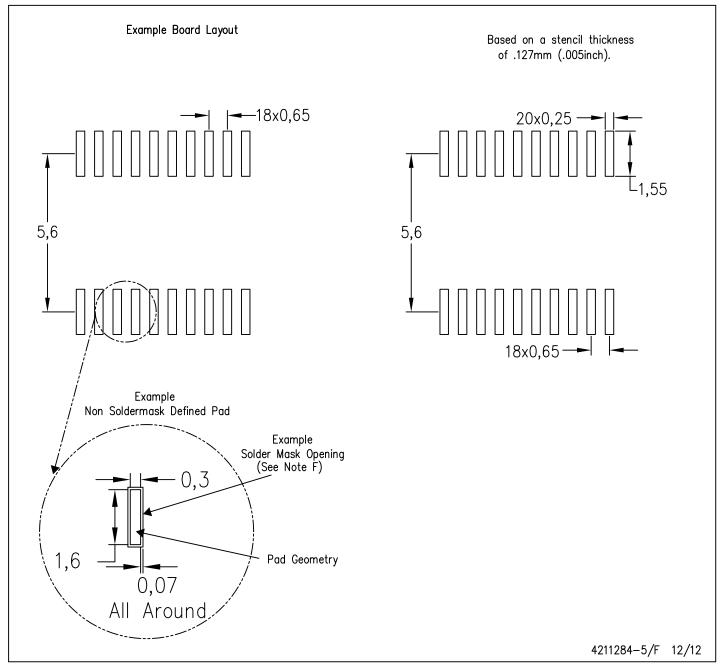


- A. All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M—1994.
- B. This drawing is subject to change without notice.
- Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0,15 each side.
- Body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



PW (R-PDSO-G20)

PLASTIC SMALL OUTLINE



- 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.



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

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