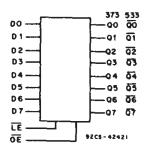
Technical Data ______ CD54/74AC373, CD54/74AC533 CD54/74ACT373, CD54/74ACT533





Octal Transparent Latch, 3-State

CD54/74AC/ACT373 - Non-Inverting CD54/74AC/ACT533 - Inverting

Type Features:

Buffered inputs

Typical propagation delay:

4.3 ns @ $V_{CC} = 5 V$, $T_A = 25^{\circ} C$, $C_L = 50 pF$

FUNCTIONAL DIAGRAM

The RCA-CD54/74AC373 and CD54/74AC533 and the CD54/74ACT373 and CD54/74ACT533 octal transparent 3state latches use the RCA ADVANCED CMOS technology. The outputs are transparent to the inputs when the Latch Enable (\overline{LE}) is HIGH. When the Latch Enable (\overline{LE}) goes LOW, the data is latched. The Output Enable (\overline{OE}) controls the 3-state outputs. When the Output Enable (\overline{OE}) is HIGH, the outputs are in the high-impedance state. The latch operation is independent of the state of the Output Enable.

The CD74AC/ACT373 and CD74AC/ACT533 are supplied in 20-lead dual-in-line plastic packages (E suffix) and in 20-lead dual-in-line small-outline plastic packages (M suffix). Both package types are operable over the following temperature ranges: Commercial (0 to 70°C); Industrial (-40 to +85°C); and Extended Industrial/Military (-55 to +125°C).

The CD54AC/ACT373 and CD54AC/ACT533, available in chip form (H suffix), are operable over the -55 to +125°C temperature range.

Family Features:

- Exceeds 2-kV ESD Protection MIL-STD-883, Method 3015
- SCR-Latchup-resistant CMOS process and circuit design
- Speed of bipolar FAST*/AS/S with significantly reduced power consumption
- Balanced propagation delays
- AC types feature 1.5-V to 5.5-V operation and balanced noise immunity at 30% of the supply
- ± 24-mA output drive current
 - Fanout to 15 FAST* ICs
 - Drives 50-ohm transmission lines

*FAST is a Registered Trademark of Fairchild Semiconductor Corp.

Output Enable	Latch Enable	Data	AC/ACT373 Output	AC/ACT533 Output
L	н	н	н	L
L	н	L	L	н
L	L		(L	Ĥ
L L	L	h	н	L
н,	×	X	Z	Z

TRUTH TABLE

Note:

L = Low voltage level

H = High voltage level

I = Low voltage level one set-up time prior to the high to low

latch enable transition

h = High voltage level one set-up time prior to the high to low

latch enable transition.

X = Don't Care

Z = High Impedance State

This data sheet is applicable to the CD54/74AC373, CD54/74ACT373, and CD54ACT533. The CD74AC533 and CD74ACT533 were not acquired from Harris Semiconductor.

File Number 1882

CD54/74AC373, CD54/74AC533 CD54/74ACT373, CD54/74ACT533

MAXIMUM RATINGS	, Absolute-Maximum	Values:
-----------------	--------------------	---------

DC SUPPLY-VOLTAGE (V∞) -0.5 to 6 V
DC INPUT DIODE CURRENT, Int (for $V_1 < -0.5$ V or $V_1 > V_{cc} + 0.5$ V) +20 mA
DC OUTPUT DIODE CURRENT, I_{OK} (for $V_0 < -0.5$ V or $V_0 > V_{cc} + 0.5$ V) ±50 mA
DC OUTPUT SOURCE OR SINK CURRENT per Output Pin, I_0 (for $V_0 > -0.5$ V or $V_0 < V_{cc} + 0.5$ V) ± 50 mA
DC V _{cc} or GROUND CURRENT (I _{cc} or I _{GND})
POWER DISSIPATION PER PACKAGE (PD):
For T _A = -55 to +100°C (PACKAGE TYPE E)
For T _A = +100 to +125°C (PACKAGE TYPE E) Derate Linearly at 8 mW/°C to 300 mW
For $T_A = -55$ to $+70^{\circ}$ C (PACKAGE TYPE M)
For $I_A = +70$ to +125°C (PACKAGE TYPE M) Derate Linearly at 6 mW/°C to 70 mW
OPERATING-TEMPERATURE RANGE (T_A)
STORAGE TEMPERATURE (T _{sto})65 to +150°C
LEAD TEMPERATURE (DURING SOLDERING):
At distance 1/16 ± 1/32 in. (1.59 ± 0.79 mm) from case for 10 s maximum
Unit inserted into PC board min. thickness 1/16 in. (1.59 mm) with solder contacting lead tips only
For units of a state of a factor of the state of the stat
*For up to 4 outputs per device; add \pm 25 mA for each additional output.

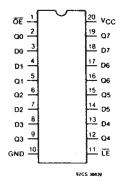
RECOMMENDED OPERATING CONDITIONS:

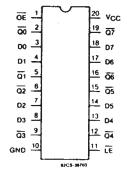
For maximum reliability, normal operating conditions should be selected so that operation is always within the following ranges:

CHARACTERISTIC	LIN	IITS		
	MIN.	MAX.	UNITS	
Supply-Voltage Range, Vcc*:		ł	1	
(For $T_A = Full Package-Temperature Range)$				
AC Types	1.5	5.5	1	
ACT Types	4.5	5.5	V V	
DC Input or Output Voltage, VI, Vo	0	Vcc	V	
Operating Temperature, TA	-55	+125	°C	
Input Rise and Fall Slew Rate, dt/dv				
at 1.5 V to 3 V(AC Types)	0	50	ns/V	
at 3.6 V to 5.5 V(AC Types)	Ō	20	ns/V	
at 4.5 V to 5.5 V(ACT Types)	Ō	10	ns/V	

*Unless otherwise specified, all voltages are referenced to ground.

TERMINAL ASSIGNMENT DIAGRAMS





CD54/74AC373, CD54/74ACT373

CD54/74AC533, CD54/74ACT533

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Technical Data ______ CD54/74AC373, CD54/74AC533 CD54/74ACT373, CD54/74ACT533

STATIC ELECTRICAL CHARACTERISTICS: AC Series

								RATURE	(T _A) - °(C	
CHARACTERISTI	CS	TEST CO	NDITIONS	V _{cc}	V _{cc} +25		-40 t	o +85	-55 to +125		UNITS
		V, (V)	l _o (mA)	(Ÿ)	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	
High-Level Input				1.5	1.2	_	1.2	—	1.2		
Voltage	ViH			3	2.1	_	2.1		2.1		v
				5.5	3.85		3.85	—	3.85		
Low-Level Input				1.5		0.3	—	0.3		0.3	
Voltage	Vil			3	_	0.9		0.9	<u> </u>	0.9	l v
				5.5	· _	1.65	_	1.65		1.65	
High-Level Output			-0.05	1.5	1.4	-	1.4	—	1.4		
Voltage	Vон	VIH	-0.05	3	2.9		2.9	-	2.9		
		or	-0.05	4.5	4.4	_	4.4	_	4.4	—]
		ViL	-4	3	2.58	_	2.48		2.4	-] v
			-24	4.5	3.94	_	3.8		3.7] .
		#. * {	-75	5.5		_	3.85	<u> </u>	<u> </u>	—]
		#, ^ {	-50	5.5	_		-		3.85	_]
Low-Level Output		hh-	0.05	1.5		0.1	_	0.1		0.1	
Voltage	Vol	Vie	0.05	3		0.1		0.1	-	0,1]
		or	0.05	4.5	_	0.1	_	0.1		0.1]
		VIL	12	3		0.36	-	0.44		0.5] v [
			24	4.5		0.36	_	0.44		0.5]
		1 (75	5.5	_			1.65			1
		#, * {	50	5.5				-	-	1.65]
Input Leakage Current	lı	V _{cc} or GND		5.5		±0.1	—	±1	-	±1	μA
3-State Leakage Current	loz	V _{IH} or									
		ViL									
		V _o =		5.5	-	±0.5		±5	-	±10	μΑ
		Vcc									1
		or									
		GND								ļ	ļ
Quiescent Supply Current, MSI	Icc	V _{cc} or GND	0	5.5	-	8		80	-	160	μA

#Test one output at a time for a 1-second maximum duration. Measurement is made by forcing current and measuring voltage to minimize power dissipation. *Test verifies a minimum 50-ohm transmission-line-drive capability at +85°C, 75 ohms at +125°C.

_ Technical Data CD54/74AC373, CD54/74AC533 CD54/74ACT373, CD54/74ACT533

STATIC ELECTRICAL CHARACTERISTICS: ACT Series

						AMBIEN	Т ТЕМРЕ	RATUR	E (T _A) - °	с	
CHARACTERISTICS		TEST CO	EST CONDITIONS		/ _{cc} +25		5 -40 to		-55 t	-55 to +125	
		V, (V)	l _o (mA)	(V)	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	1
High-Level Input Voltage	Vін			4.5 to 5.5	2	-	2	_	2	_	v
Low-Level Input Voltage	ViL			4.5 to 5.5	_	0.8		0.8	-	0.8	v
High-Level Output		ViH	-0.05	4.5	4.4		4.4	-	4.4		
Voltage	Vон	or Vi∟	-24	4.5	3.94		3.8		3.7	1 _	
		#, * {	-75	5.5	_	-	3.85	-	_		1 °
			-50	5.5	_		_		3.85	-	1
Low-Level Output		ViH	0.05	4.5	—	0.1		0.1		0.1	
Voltage	Vol	or VIL	24	4.5		0.36	-	0.44		0.5	l v
	:	#, * {	75	5.5	-	—		1.65			
		l	50	5.5		—	-		-	1.65]
Input Leakage Current	ł,	V _{cc} or GND		5.5		±0.1	—	±1		±1	μA
3-State Leakage Current	loz	V_{IH} or V_{IL} $V_{O} =$ V_{CC} or		5.5		±0.5		±5	_	±10	μA
Quiescent Supply Current, MSI	lcc	GND V _{cc} or GND	0	5.5		8		80		160	μΑ
Additional Quiescent S Current per Input Pi TTL Inputs High 1 Unit Load	Supply in ∆Icc	V _{cc} -2.1		4.5 to 5.5	_	2.4	-	2.8	_	3	mA

#Test one output at a time for a 1-second maximum duration. Measurement is made by forcing current and measuring voltage to minimize power dissipation. *Test verifies a minimum 50-ohm transmission-line-drive capability at +85°C, 75 ohms at +125°C.

ACT INPUT LOADING TABLE

INPUT	UNIT	LOAD*
INFUT	ACT373	ACT533
ŌE	0.87	0.87
Dn	0.5	0.5
ĹĒ	0.8	0.8

*Unit load is Alcc limit specified in Static Characteristics Chart, e.g., 2.4 mA max. @ 25°C.

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Technical Data CD54/74AC373, CD54/74AC533 CD54/74ACT373, CD54/74ACT533

PREREQUISITE FOR SWITCHING: AC Series

			AMBI	ENT TEMPE	RATURE (1	Г _л) -°С]	
CHARACTERISTICS	SYMBOL	V _{cc}	-40 t	o +85	-55 to +125			
		(V)	MIN.	MAX.	MIN.	MAX.	·	
LE Pulse Width	tw	1.5 3.3* 5†	44 4.9 3.5		50 5.6 4		ns	
Setup Time Data to LE	tsu	1.5 3.3 5	2 2 2	-	2 2 2		ns	
Hold Time Data to LE	tH	1.5 3.3 5	33 3.7 2.6		38 4.2 3		ns	

*3.3 V: min. is @ 3 V

†5 V: min. is @ 4.5 V

SWITCHING CHARACTERISTICS: AC Series; t,, t, = 3 ns, CL = 50 pF

			AMBI				
CHARACTERISTICS	SYMBOL	V _{cc}	-40 to +85		-55 to	+125	
UTAHAGTERIGTIOG		(V)	MIN. MAX.		MIN. MAX.]
Propagation Delays: Data to Qn 373	tplh tphL	1.5 3.3* 5†	 3.1 2.2	96 10.8 7.7		106 11.9 8.5	ns
533	tрін трні	1.5 3.3 5	3.8 2.7	119 13.4 9.5		131 14.7 10.5	ns
LE on Qn 373	tрін трні	1.5 3.3 5	 4.3 3.1	136 15.2 10.9	4.2 3	150 16.8 12	ns
533	tplh tphl	1.5 3.3 5	 4.3 3.1	136 15.3 10.9	 4.2 3	150 16.8 12	ns
Output Enable Times	tezi tezi	1.5 3.3 5	4.1 2.7	119 14.4 9.5	4 2.6	131 15.8 10.5	ns
Output Disable Times	tpiz tphz	1.5 3.3 5	 3.7 3	131 13.1 10.5	 3.6 2.9	144 14.4 11.5	ns
Power Dissipation Capacitance	CPD§		63	Тур.	63	Тур.	pF
Min. (Valley) Vон During Switching of Other Outputs (Output Under Test Not Switching)	V _{онv} See Fig. 1	5	4 Typ. @ 25°C		v		
Max. (Peak) Vo⊾ During Switching of Other Outputs (Output Under Test Not Switching)	Volp See Fig. 1	5		1 Тур.	@ 25° C		v
Input Capacitance	Cı	_	_	10		10	pF
3-State Output Capacitance	Co			15	_	15	pF

*3.3 V; min. is @ 3.6 V max. is @ 3 V

15 V: min. is @ 5.5 V max. is @ 4.5 V §CPD is used to determine the dynamic power consumption, per latch. $P_D = V_{CC}^2 f_i (C_{PD} + C_L)$ where $f_i = input frequency$ $C_L = output load capacitance$ $V_{CC} = supply voltage.$

_ Technical Data CD54/74AC373, CD54/74AC533 CD54/74ACT373, CD54/74ACT533

PREREQUISITE FOR SWITCHING: ACT Series

			AMBI				
CHARACTERISTICS	SYMBOL	V _{cc} (V)	-40 to +85		-55 to +125		
		(*)	MIN.	MAX.	MIN.	MAX.	1
LE Pulse Width	tw	5†	3.6 ·	·	4	_	ns
Setup Time Data to LE	tsu	5	2	_	2		ns
Hold Time Data to LE	t _H	5	2.7	_	3		ns

†5 V: min. is @ 4.5 V

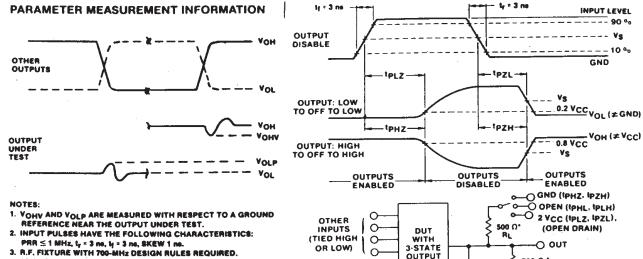
SWITCHING CHARACTERISTICS: ACT Series; t,, t, = 3 ns, CL = 50 pF

			AMBI	ENT TEMP	ERATURE (Г _л) -°С	
CHARACTERISTICS	SYMBOL	V _{cc} (V)	V _{cc} -40 to +85		-55 to +125		
		(*)	MIN.	MAX.	MIN.	MAX.]
Propagation Delays: Data to Qn 373	tрын		2.7	9.5	2.6	10.4	
533	тень	5†	3	10.4	2.9	11.4	ns
LE to Qn 373 533	tрін трні	5	3.1	11.4	3	12.5	ns
Output Enable Times	tezi tezh	5	3.5	12.3	3.4	13.5	ns
Output Disable Times	tpiz tpiz	5	3.2	11.4	3.1	12.5	ns
Power Dissipation Capacitance	CPD§		63 1	Гур.	63 1	Гур.	pF
Min. (Valley) Vон During Switching of Other Outputs (Output Under Test Not Switching)	V _{онv} See Fig. 1	5	4 Typ. @ 25°C			v	
Max. (Peak) VoL During Switching of Other Outputs (Output Under Test Not Switching)	V _{OLP} See Fig. 1	5		1 Тур. (@ 25°C		v
Input Capacitance	C1		-	10	_	10	pF
3-State Output Capacitance	Co		_	15	_	15	pF

†5 V: min. is @ 5.5 V max. is @ 4.5 V

 V_{cc} = supply voltage.

Technical Data CD54/74AC373, CD54/74AC533 CD54/74ACT373, CD54/74ACT533



DISABLE O

IC SHOULD BE SOLDERED INTO TEST BOARD AND BYPASSED WITH 0.1 # CAPACITOR. SCOPE AND PROBES REQUIRE 700-MHz BANDWIDTH.

9205-42406

Fig. 1 - Simultaneous switching transient waveforms.

*FOR AC SERIES ONLY: WHEN VCC = 1.5 V, RL = 1 kD

OUTPUT

Fig. 2 - Three-state propagation delay waveforms and test circuit.

С_L 50 рF

500 Ω *

92CM-42405

AL

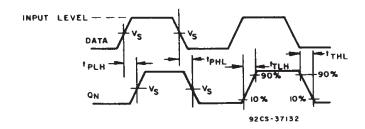


Fig. 3 - Data to Qn output propagation delays and output transistion times.

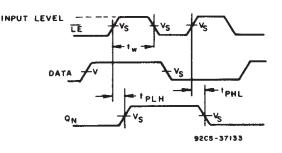
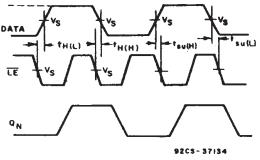


Fig. 4 - Latch enable propagation delays.

INPUT LEVEL



	CD54/74AC	CD54/74ACT
Input Level	Vcc	3 V
Input Switching Voltage, Vs	$0.5 V_{CC}$	1.5 V
Output Switching Voltage, Vs	0.5 V _{cc}	0.5 V _{cc}

Fig. 5 - Latch enable prerequisite times.



PACKAGING INFORMATION

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead finish/ Ball material	MSL Peak Temp (3)	Op Temp (°C)	Device Marking (4/5)	Samples
CD54AC373F3A	ACTIVE	CDIP	J	20	1	Non-RoHS & Green	(6) SNPB	N / A for Pkg Type	-55 to 125	CD54AC373F3A	Samples
CD54ACT373F3A	ACTIVE	CDIP	J	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	CD54ACT373F3A	Samples
CD74AC373E	ACTIVE	PDIP	N	20	20	RoHS & Green	NIPDAU	N / A for Pkg Type	-55 to 125	CD74AC373E	Samples
CD74AC373M	ACTIVE	SOIC	DW	20	25	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-55 to 125	AC373M	Samples
CD74AC373M96	ACTIVE	SOIC	DW	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-55 to 125	AC373M	Samples
CD74ACT373E	ACTIVE	PDIP	N	20	20	RoHS & Green	NIPDAU	N / A for Pkg Type	-55 to 125	CD74ACT373E	Samples
CD74ACT373M	ACTIVE	SOIC	DW	20	25	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-55 to 125	ACT373M	Samples
CD74ACT373M96	ACTIVE	SOIC	DW	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-55 to 125	ACT373M	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⁾ RoHS: TI defines "RoHS" to mean semiconductor products that are compliant with the current EU RoHS requirements for all 10 RoHS substances, including the requirement that RoHS substance do not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, "RoHS" products are suitable for use in specified lead-free processes. TI may reference these types of products as "Pb-Free".

RoHS Exempt: TI defines "RoHS Exempt" to mean products that contain lead but are compliant with EU RoHS pursuant to a specific EU RoHS exemption.

Green: TI defines "Green" to mean the content of Chlorine (CI) and Bromine (Br) based flame retardants meet JS709B low halogen requirements of <=1000ppm threshold. Antimony trioxide based flame retardants must also meet the <=1000ppm threshold requirement.

⁽³⁾ MSL, Peak Temp. - The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.

⁽⁴⁾ There may be additional marking, which relates to the logo, the lot trace code information, or the environmental category on the device.

(5) Multiple Device Markings will be inside parentheses. Only one Device 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 Device Marking for that device.



⁽⁶⁾ Lead finish/Ball material - Orderable Devices may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead finish/Ball material values may wrap to two lines if the finish value exceeds the maximum column width.

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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 CD54AC373, CD54ACT373, CD74AC373, CD74ACT373 :

- Catalog : CD74AC373, CD74ACT373
- Military : CD54AC373, CD54ACT373

NOTE: Qualified Version Definitions:

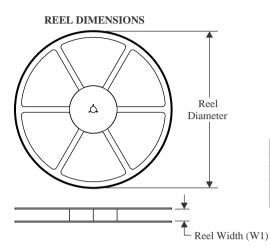
- Catalog TI's standard catalog product
- Military QML certified for Military and Defense Applications

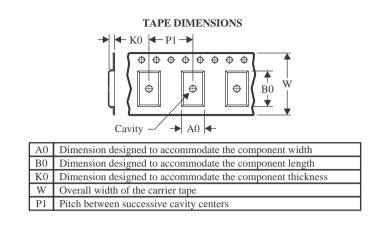


Texas

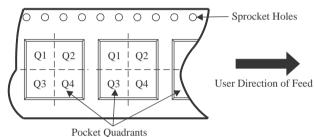
STRUMENTS

TAPE AND REEL INFORMATION





QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



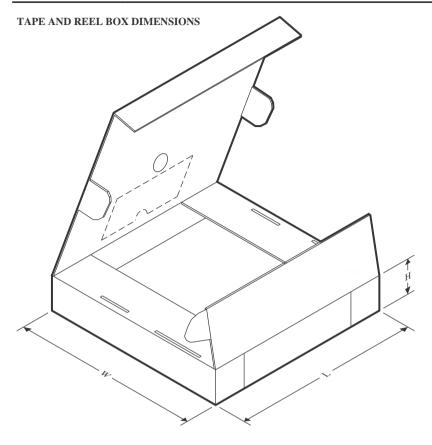
*All dimensions are nominal												
Device	Package Type	Package Drawing		SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
CD74AC373M96	SOIC	DW	20	2000	330.0	24.4	10.8	13.3	2.7	12.0	24.0	Q1
CD74ACT373M96	SOIC	DW	20	2000	330.0	24.4	10.8	13.3	2.7	12.0	24.0	Q1



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PACKAGE MATERIALS INFORMATION

9-Aug-2022



*All dimensions are nominal

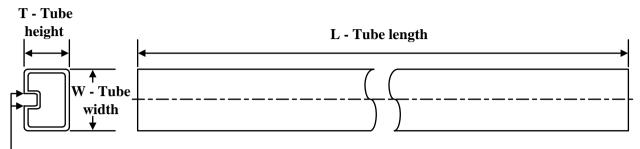
Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
CD74AC373M96	SOIC	DW	20	2000	367.0	367.0	45.0
CD74ACT373M96	SOIC	DW	20	2000	367.0	367.0	45.0

TEXAS INSTRUMENTS

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9-Aug-2022

TUBE



- B - Alignment groove width

*All dimensions are nominal

Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	Τ (μm)	B (mm)
CD74AC373E	N	PDIP	20	20	506	13.97	11230	4.32
CD74AC373M	DW	SOIC	20	25	507	12.83	5080	6.6
CD74ACT373E	N	PDIP	20	20	506	13.97	11230	4.32
CD74ACT373M	DW	SOIC	20	25	507	12.83	5080	6.6

J (R-GDIP-T**) 14 LEADS SHOWN

CERAMIC DUAL IN-LINE PACKAGE



NOTES: 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.

N (R-PDIP-T**)

PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN



NOTES:

- 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).
- \triangle The 20 pin end lead shoulder width is a vendor option, either half or full width.



DW0020A



PACKAGE OUTLINE

SOIC - 2.65 mm max height

SOIC



NOTES:

- 1. All linear dimensions are in millimeters. Dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M. 2. This drawing is subject to change without notice. 3. This dimension does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not
- exceed 0.15 mm per side.
- 4. This dimension does not include interlead flash. Interlead flash shall not exceed 0.43 mm per side.
- 5. Reference JEDEC registration MS-013.



DW0020A

EXAMPLE BOARD LAYOUT

SOIC - 2.65 mm max height

SOIC



NOTES: (continued)

6. Publication IPC-7351 may have alternate designs.

7. Solder mask tolerances between and around signal pads can vary based on board fabrication site.



DW0020A

EXAMPLE STENCIL DESIGN

SOIC - 2.65 mm max height

SOIC



NOTES: (continued)

- 8. Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate design recommendations.
- 9. Board assembly site may have different recommendations for stencil design.



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