

Octal Transparent Latch, 3-State

CD54/74AC/ACT563 - Inverting CD54/74AC/ACT573 - Non-Inverting

Type Features:

- Buffered inputs
- Typical propagation delay: 4.3 ns @ V_{CC} = 5 V, T_A = 25° C, C_L = 50 pF

The RCA-CD54/74AC563 and CD54/74AC573 and the CD54/74ACT563 and CD54/74ACT573 octal transparent 3-state latches use the RCA ADVANCED CMOS technology. The outputs are transparent to the inputs when the Latch Enable (LE) is HIGH. When the Latch Enable (LE) goes LOW, the data is latched. The Output Enable (OE) controls the 3-state outputs. When the Output Enable (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/ACT563 and CD74AC/ACT573 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/ACT563 and CD54AC/ACT573, 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

TRUTH TABLE

| Output Enable | Latch Enable | Data | AC/ACT563 Output | AC/ACT573 Output |
|------------------|-----------------|------|---------------------|---------------------|
| L. | н | н | L | н |
| L | н | L | Н | L |
| L | L | 1 | н । | L |
| L | L | h | L | Н |
| н | X | × | Z | Z |

Note

- L = Low voltage level
- H = High voltage level
- 1 = 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 CD74AC563, CD54/74AC573, and CD54/74ACT573. The CD54AC563 and CD54/74ACT563 were not acquired from Harris Semiconductor.

^{*}FAST is a Registered Trademark of Fairchild Semiconductor Corp.

RECOMMENDED OPERATING CONDITIONS:

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

| CHARACTERISTIC | LIW | LINUTO | |
|--|--|----------------|--------------|
| | 1.5 5.5 4.5 5.5 0 V _{cc} -55 +125 | UNITS | |
| Supply-Voltage Range, V _{Cc} *: (For T _A = Full Package-Temperature Range) AC Types ACT Types | i - | | V |
| DC Input or Output Voltage, V _I , V _O | 0 | Vcc | V |
| Operating Temperature, T _A : | -55 | +125 | °C |
| Input Rise and Fall Slew Rate, dt/dv at 1.5 V to 3 V(AC Types) at 3.6 V to 5.5 V(AC Types) at 4.5 V to 5.5 V(ACT Types) | 0 0 | 50 20 10 | ns/V ns/V |

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

TERMINAL ASSIGNMENT DIAGRAMS



CD54/74AC563, CD54/74ACT563

CD54/74AC573, CD54/74ACT573

STATIC ELECTRICAL CHARACTERISTICS: AC Series

| | | | | | | AMBIEN | TEMPE | RATURE | (T _A) - °(| С | Ţ |
|----------------------------------|-----------------|------------------------------|------------------------|-----------------|------|--------|--------|--------|------------------------|----------|-------|
| CHARACTERISTICS | S | TEST COM | IDITIONS | V _{cc} | +: | 25 | -40 to | o +85 | -55 to | +125 | UNITS |
| | | V, (V) | l _o (mA) | (V) | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | |
| High-Level Input | | | | 1.5 | 1.2 | _ | 1.2 | _ | 1.2 | | |
| Voltage | V _{IH} | | | 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 | ' | 0.9 | V |
| | | | | 5.5 | _ | 1.65 | _ | 1.65 | <u> </u> | 1.65 | |
| High-Level Output | | | -0.05 | 1.5 | 1.4 | | 1.4 | | 1.4 | _ | |
| Voltage | V _{OH} | ViH | -0.05 | 3 | 2.9 | _ | 2.9 | _ | 2.9 | _ | |
| | | or | -0.05 | 4.5 | 4.4 | | 4.4 | _ | 4.4 | | 1 |
| | | VıL | -4 | 3 | 2.58 | _ | 2.48 | _ | 2.4 | _ | V |
| | | | -24 | 4.5 | 3.94 | | 3.8 | | 3.7 | _ | 1 |
| | | (| -75 | 5.5 | _ | | 3.85 | _ | _ | <u> </u> | 1 |
| | #. * { | -50 | 5.5 | | _ | _ | _ | 3.85 | _ | 1 | |
| Low-Level Output | | | 0.05 | 1.5 | _ | 0.1 | | 0.1 | | 0.1 | |
| Voltage | V_{OL} | ViH | 0.05 | 3 | _ | 0.1 | | 0.1 | | 0.1 | 1 |
| | | or | 0.05 | 4.5 | _ | 0.1 | _ | 0.1 | _ | 0.1 | 1 |
| | | VıL | 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 | 1 |
| Input Leakage Current | 1, | V _{cc} or GND | | 5.5 | _ | ±0.1 | _ | ±1 | _ | ±1 | μΑ |
| 3-State Leakage | | ViH | | | | | | | | | |
| Current | loz | or | | | | | | | | | |
| | | Vic | | | | | | | | | ļ |
| | | Vo= | | 5.5 | _ | ±0.5 | _ | ±5 | _ | ±10 | μΑ |
| | | Vcc | | | | | | | | | |
| | | or | | | | | | 1 | | | |
| | | GND | | | | | | | | | |
| Quiescent Supply Current, MSI | Icc | V _{cc} or GND | 0 | 5.5 | | 8 | | 80 | | 160 | μΑ |

[#]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.

STATIC ELECTRICAL CHARACTERISTICS: ACT Series

| | | | | | | AMBIEN | T TEMP | ERATURE | E (T _A) - ° | С | |
|---|---|--|-------------------------|------------------|-------------|-----------|---------------|---------|-------------------------|------|--------------|
| CHARACTERIST | ice. | TEST CO | NDITIONS | V _{cc} | + | 25 | -40 1 | o +85 | -55 to +125 | | |
| or introduction | | | I _o (V) (mA) | | MIN. | MIN. MAX. | | MAX. | MIN. | MAX. | UNITS |
| High-Level Input Voltage | V _{IH} | | | 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 | | V _{IH} | -0.05 | 4.5 | 4.4 | | 4.4 | _ | 4.4 | _ | |
| Voltage Vol | Voltage V _{OH} or V _{IL} #, * | | -24 | 4.5 | 3.94 | | 3.8 | _ | 3.7 | - | V. |
| | | 1 6 | -75 | 5.5 | _ | | 3.85 | _ | | _ |] v . |
| | | | -50 | 5.5 | | | | | 3.85 | | |
| Low-Level Output Voltage | | V _{IH} | 0.05 | 4.5 | | 0.1 | _ | 0.1 | _ | 0.1 | |
| voltage vol | ViL | 24 | 4.5 | _ | 0.36 | | 0.44 | _ | 0.5 |] | |
| | | #, * { | 75 | 5.5 | | _ | _ | 1.65 | _ | _ | \ \ |
| | | <u>"'</u> | 50 | 5.5 | | _ | _ | _ | _ | 1.65 | 1 |
| Input Leakage Current | l _t | V∞ or GND | | 5.5 | _ | ±0.1 | _ | ±1 | _ | ±1 | μΑ |
| 3-State Leakage Current | loz | V _{IH} or | | | | | | | | | |
| | | V _{IL} V _O = V _{CC} | | 5.5 | | ±0.5 | _ | ±5 | - | ±10 | μΑ |
| | | or GND | | | | | | | | | |
| Quiescent Supply Current, MSI | Icc | V _{cc} or GND | 0 | 5.5 | | 8 | . | 80 | _ | 160 | μΑ |
| Additional Quiescent Current per Input P TTL Inputs High 1 Unit Load | Supply in ΔI _{cc} | 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* | | | | | |
|-------|------------|--------|--|--|--|--|
| | ACT563 | ACT573 | | | | |
| ŌĒ | 0.87 | 0.87 | | | | |
| Dn | 0.5 | 0.5 | | | | |
| LĒ | 0.8 | 0.8 | | | | |

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

PREREQUISITE FOR SWITCHING: AC Series

| | | [| | AMBIENT TEMPERATURE (TA) -°C | | | | |
|--------------------------|--------|------------------------|------------------|------------------------------|----------------|-------|-------|--|
| CHARACTERISTICS | SYMBOL | V _{cc} (V) | -40 to +85 | | -55 to +125 | | UNITS | |
| | | | MIN. | MAX. | MIN. | MAX. | | |
| LE Pulse | | 1.5 | 44 | _ | 50 | _ | | |
| Width | tw | 3.3* 5† | 4.9 3.5 | | 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 | tн | 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, C, = 50 pF

| | | | AMBII | AMBIENT TEMPERATURE (TA) - °C | | | | |
|---|--------------------------------------|------------------------|---------------|-------------------------------|---------------|---------------------|-------|--|
| CHARACTERISTICS | SYMBOL | V _{cc} (V) | -40 t | o +85 | -55 to | +125 | UNITS | |
| | | (*) | MIN. | MAX. | MIN. | MAX. | 1 | |
| Propagation Delays: Data to Qn AC563 | t _{PLH} t _{PHL} | 1.5 3.3* 5† | 3.8 2.7 | 119 13.4 9.5 | 3.7 2.6 | 131 14.7 10.5 | ns | |
| AC573 | tегн teнr | 1.5 3.3 5 | 3.1 2.2 | 96 10.8 7.7 | - 3 2.1 | 106 11.9 8.5 | ns | |
| LE on Qn AC563 | t _{PLH} t _{PHL} | 1.5 3.3 5 | 4.3 3.1 | 136 15.3 10.9 | - 4.2 3 | 150 16.8 12 | ns | |
| AC573 | 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 tezh | 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 | t _{PLZ} t _{PHZ} | 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 | C _{PO} § | _ | 63 | Тур. | 63 | Тур. | рF | |
| Min. (Valley) V _{OH} During Switching of Other Outputs (Output Under Test Not Switching) | V _{онv} See Fig. 1 | 5 | | ٧ | | | | |
| Max. (Peak) V _{OL} During Switching of Other Outputs (Output Under Test Not Switching) | V _{OLP} See Fig. 1 | 5 | 1 Typ. @ 25°C | | | | V | |
| Input Capacitance | Cı | | | 10 | | 10 | pF | |
| 3-State Output Capacitance | Co | _ | <u> </u> | 15 | | 15 | pF | |

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

†5 V: min. is @ 5.5 V max. is @ 4.5 V

§C_{PO} 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.

PREREQUISITE FOR SWITCHING: ACT Series

| | | V _{cc} (V) | AMBI | | | | |
|--------------------------|-----------------|------------------------|------------|------|-------------|------|-------|
| CHARACTERISTICS | SYMBOL | | -40 to +85 | | -55 to +125 | | UNITS |
| | | | MIN. | MAX. | MIN. | MAX. | |
| LE Pulse Width | tw | 5† | 3.5 | _ | 4 | _ | ns |
| Setup Time Data to LE | t _{su} | 5 | 2 | _ | 2 | _ | ns |
| Hold Time Data to LE | tн | 5 | 2.6 | _ | 3 | _ | ns |

†5 V: min. is @ 4.5 V

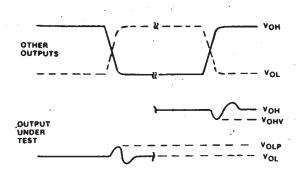
SWITCHING CHARACTERISTICS: ACT Series; t,, t, = 3 ns, C, = 50 pF

| | | | AMBI | | | | |
|---|--------------------------------------|------------------------|-------------------------------|-----------|-------------|--|-------|
| CHARACTERISTICS | SYMBOL | V _{cc} (V) | -40 to +85 | | -55 to +125 | | UNITS |
| | | | MIN. | MAX. | MIN. | MAX. | 1 |
| Propagation Delays: Data to Qn 563 | t _{PLH} | | 2.9 | 10.4 | 2.9 | 11.4 | |
| 573 | 1 | 5† | 2.7 | 9.4 | 2.6 | 10.4 | ns |
| LE to Qn 563 573 | t _{PLH} t _{PHL} | 5 | 3.2 | 11.4 | 3.1 | 12.5 | ns |
| Output Enable Times | t _{PZL} t _{PZH} | 5 | 3.5 | 12.3 | 3.4 | 13.5 | ns |
| Output Disable Times | t _{PLZ} | 5 | 3.2 | 11.4 | 3.1 | 12.5 | ns |
| Power Dissipation Capacitance | CPO§ | | 63 | L Гур. | 63 | <u>I </u> | pF |
| Min. (Valley) V _{он} During Switching of Other Outputs (Output Under Test Not Switching) | V _{онv} See Fig. 1 | 5 | 63 Typ. 63 Typ. 4 Typ. @ 25°C | | | | ٧ |
| Max. (Peak) Vol. During Switching of Other Outputs (Output Under Test Not Switching) | V _{OLP} See Fig. 1 | 5 | 1 Тур. @ 25°С | | | V | |
| Input Capacitance | C _i | | | 10 | _ | 10 | ρF |
| 3-State Output Capacitance | Co | _ | _ | 15 | | 15 | pF |

†5 V: min. is @ 5.5 V max. is @ 4.5 V

§CPD is used to determine the dynamic power consumption, per latch. $P_D = V_{cc}^2 f_c (C_{PD} + C_L) + V_{cc} \Delta I_{cc}$ where $f_c = input$ frequency $C_L = output$ load capacitance $V_{cc} = supply voltage$.

PARAMETER MEASUREMENT INFORMATION

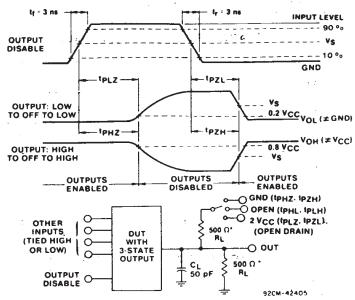


NOTES:

- 1. V_{OHV} AND V_{OLP} ARE MEASURED WITH RESPECT TO A GROUND REFERENCE NEAR THE OUTPUT UNDER TEST.
- 2. INPUT PULSES HAVE THE FOLLOWING CHARACTERISTICS:

9205-42406

Fig. 1 - Simultaneous switching transient waveforms.



*FOR AC SERIES ONLY: WHEN $V_{CC} = 1.5~V_{\rm t} R_L = 1~k\Omega$

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

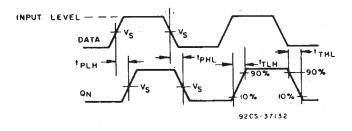


Fig. 3 - Data to Qn output propagation delays.

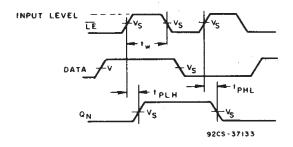


Fig. 4 - Latch enable propagation delays.

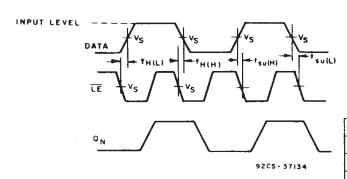


Fig. 5 - Latch enable prerequisite times.

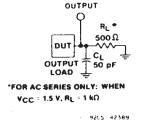


Fig. 6 - Test circuit.

| | CD54/74AC | CD54/74ACT |
|------------------------------|---------------------|---------------------|
| Input Level | V _{cc} | 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} |







PACKAGING INFORMATION

| Orderable Device | Status ⁽¹⁾ | Package Type | Package Drawing | Pins | Package Qty | e Eco Plan ⁽²⁾ | Lead/Ball Finish | MSL Peak Temp ⁽³⁾ |
|------------------|-----------------------|-----------------|--------------------|------|----------------|----------------------------|------------------|------------------------------|
| CD54AC573F3A | ACTIVE | CDIP | J | 20 | 1 | TBD | A42 SNPB | N / A for Pkg Type |
| CD54ACT573F3A | ACTIVE | CDIP | J | 20 | 1 | TBD | A42 SNPB | N / A for Pkg Type |
| CD74AC563E | ACTIVE | PDIP | N | 20 | 20 | Pb-Free (RoHS) | CU NIPDAU | N / A for Pkg Type |
| CD74AC563EE4 | ACTIVE | PDIP | N | 20 | 20 | Pb-Free (RoHS) | CU NIPDAU | N / A for Pkg Type |
| CD74AC573E | ACTIVE | PDIP | N | 20 | 20 | Pb-Free (RoHS) | CU NIPDAU | N / A for Pkg Type |
| CD74AC573EE4 | ACTIVE | PDIP | N | 20 | 20 | Pb-Free (RoHS) | CU NIPDAU | N / A for Pkg Type |
| CD74AC573M | ACTIVE | SOIC | DW | 20 | 25 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| CD74AC573M96 | ACTIVE | SOIC | DW | 20 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| CD74AC573M96E4 | ACTIVE | SOIC | DW | 20 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| CD74AC573M96G4 | ACTIVE | SOIC | DW | 20 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| CD74AC573ME4 | ACTIVE | SOIC | DW | 20 | 25 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| CD74AC573MG4 | ACTIVE | SOIC | DW | 20 | 25 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| CD74ACT573E | ACTIVE | PDIP | N | 20 | 20 | Pb-Free (RoHS) | CU NIPDAU | N / A for Pkg Type |
| CD74ACT573EE4 | ACTIVE | PDIP | N | 20 | 20 | Pb-Free (RoHS) | CU NIPDAU | N / A for Pkg Type |
| CD74ACT573M | ACTIVE | SOIC | DW | 20 | 25 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| CD74ACT573M96 | ACTIVE | SOIC | DW | 20 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| CD74ACT573M96E4 | ACTIVE | SOIC | DW | 20 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| CD74ACT573M96G4 | ACTIVE | SOIC | DW | 20 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| CD74ACT573ME4 | ACTIVE | SOIC | DW | 20 | 25 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| CD74ACT573MG4 | ACTIVE | SOIC | DW | 20 | 25 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |

⁽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.

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

⁽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.



PACKAGE OPTION ADDENDUM

26-Jan-2009

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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TAPE AND REEL INFORMATION





| A0 | Dimension designed to accommodate the component width |
|----|---|
| B0 | Dimension designed to accommodate the component length |
| | Dimension designed to accommodate the component thickness |
| W | Overall width of the carrier tape |
| P1 | Pitch between successive cavity centers |

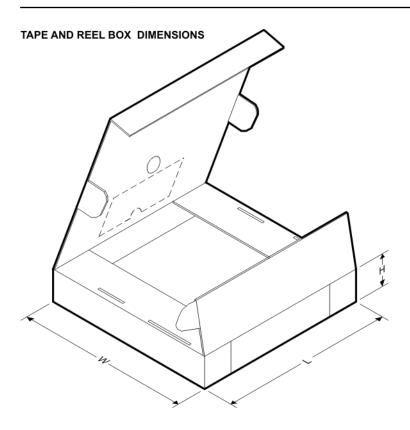
QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*All dimensions are nominal

| Device | Package Type | Package Drawing | | | Reel Diameter (mm) | Reel Width W1 (mm) | A0 (mm) | B0 (mm) | K0 (mm) | P1 (mm) | W (mm) | Pin1 Quadrant |
|---------------|-----------------|--------------------|----|------|--------------------------|--------------------------|---------|---------|---------|------------|-----------|------------------|
| CD74AC573M96 | SOIC | DW | 20 | 2000 | 330.0 | 24.4 | 10.8 | 13.0 | 2.7 | 12.0 | 24.0 | Q1 |
| CD74ACT573M96 | SOIC | DW | 20 | 2000 | 330.0 | 24.4 | 10.8 | 13.0 | 2.7 | 12.0 | 24.0 | Q1 |





*All dimensions are nominal

| Device | Package Type | Package Drawing | Pins | SPQ | Length (mm) | Width (mm) | Height (mm) | |
|---------------|--------------|-----------------|------|------|-------------|------------|-------------|--|
| CD74AC573M96 | SOIC | DW | 20 | 2000 | 346.0 | 346.0 | 41.0 | |
| CD74ACT573M96 | SOIC | DW | 20 | 2000 | 346.0 | 346.0 | 41.0 | |

14 LEADS SHOWN



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.

DW (R-PDSO-G20)

PLASTIC SMALL-OUTLINE PACKAGE



NOTES:

- A. All linear dimensions are in inches (millimeters).
- 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.



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



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