









**CD74AC175** SCHS347A - APRIL 2003 - REVISED APRIL 2024

# CD74AC175 Quadruple D-type Flip-Flop with Clear

#### 1 Features

- AC types feature 1.5V to 5.5V operation and balanced noise immunity at 30% of the supply voltage
- **Buffered** inputs
- Contains four flip-flops with double-rail outputs
- Speed of bipolar F, AS, and S, with significantly reduced power consumption
- Balanced propagation delays
- ±24mA output drive current
  - Fanout to 15 F devices
- SCR-latchup-resistant CMOS process and circuit
- Exceeds 2kV ESD protection per MIL-STD-883, method 3015

## 2 Applications

- **Buffer/Storage Registers**
- **Shift Registers**
- **Pattern Generators**

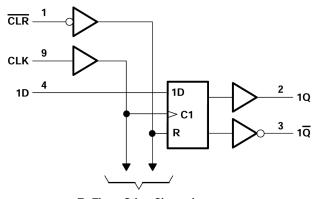
## 3 Description

This positive-edge-triggered D-type flip-flop has a direct clear (CLR) input. The CD74AC175 features complementary outputs from each flip-flop.

#### **Package Information**

PART NUMBER	PACKAGE <sup>(1)</sup>	PACKAGE SIZE(2)	BODY SIZE(3)
CD74AC175	D (SOIC, 16)	9.9mm × 6mm	9.9mm × 3.9mm

- For more information, see Mechanical, Packaging, and Orderable Information.
- The package size (length × width) is a nominal value and (2) includes pins, where applicable.
- The body size (length × width) is a nominal value and does not include pins.



To Three Other Channels Logic Diagram (Positive Logic)



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# **4 Pin Configurations and Functions**

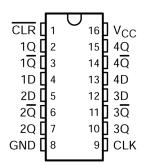


Figure 4-1. D Package, 16-PIN SCOIC (Top View)

**Table 4-1. Pin Functions** 

	PIN	TYPE	DESCRIPTION
NO.	NAME	ITPE	DESCRIPTION
1	CLR	I	Clear Pin
2	1Q	0	1Q Output
3	1Q	0	1Q Output
4	1D	I	1D Input
5	2D	1	2D Input
6	2Q	0	2Q Output
7	2Q	0	2Q Output
8	GND	_	Ground Pin
9	CLK	I	Clock Input
10	3Q	0	3Q Output
11	3 <del>Q</del>	0	3QOutput
12	3D	I	3D Input
13	4D	I	4D Input
14	4Q	0	4QOutput
15	4Q	0	4Q Output
16	V <sub>CC</sub>	_	Power Pin



## **5 Specifications**

## 5.1 Absolute Maximum Ratings

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

			MIN	MAX	UNIT
V <sub>CC</sub>	Supply voltage range	Supply voltage range			
I <sub>IK</sub>	Input clamp current	$(V_1 < 0 \text{ V or } V_1 > V_{CC})^{(2)}$		±20	mA
I <sub>OK</sub>	Output clamp current	(V <sub>O</sub> < 0 V or V <sub>O</sub> > V <sub>CC</sub> ) <sup>(2)</sup>		±50	mA
Io	Continuous output current	(V <sub>O</sub> > 0 V or V <sub>O</sub> < V <sub>CC</sub> )		±50	mA
	Continuous current through V <sub>CC</sub> or GND		±200	mA	
T <sub>stg</sub>	Storage temperature range	Storage temperature range			

<sup>(1)</sup> 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.

## 5.2 ESD Ratings

			VALUE	UNIT
V <sub>(ESD)</sub>	Electrostatic discharge	Human body model (HBM), per ANSI/ESDA/JEDEC JS-001, all pins <sup>(1)</sup>	±2000	V

<sup>(1)</sup> JEDEC document JEP155 states that 500-V HBM allows safe manufacturing with a standard ESD control process.

### **5.3 Recommended Operating Conditions**

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

			T <sub>A</sub> = 2	T <sub>A</sub> = 25°C -55°C to 125°C -4		–40°C to	85°C	UNIT		
			MIN	MAX	MIN	MAX	MIN	MAX	UNIT	
V <sub>CC</sub>	Supply voltage		1.5	5.5	1.5	5.5	1.5	5.5	V	
		V <sub>CC</sub> = 1.5V	1.2		1.2		1.2		V	
V <sub>IH</sub>	High-level input voltage	V <sub>CC</sub> = 3V	2.1		2.1		2.1			
		V <sub>CC</sub> = 5.5V	3.85		3.85		3.85			
	Low-level input voltage	V <sub>CC</sub> = 1.5V		0.3		0.3		0.3	V	
V <sub>IL</sub>		V <sub>CC</sub> = 3V		0.9		0.9		0.9		
		V <sub>CC</sub> = 5.5V		1.65		1.65		1.65		
VI	Input voltage		0	V <sub>CC</sub>	0	V <sub>CC</sub>	0	V <sub>CC</sub>	V	
Vo	Output voltage		0	V <sub>CC</sub>	0	V <sub>CC</sub>	0	V <sub>CC</sub>	V	
I <sub>OH</sub>	High-level output current	V <sub>CC</sub> = 4.5V to 5.5V		-24		-24		-24	mA	
I <sub>OL</sub>	Low-level output current	V <sub>CC</sub> = 4.5V to 5.5V		24		24		24	mA	
Δt/Δν		V <sub>CC</sub> = 1.5V to 3V		50		50		50	no/\/	
ΔυΔν	Input transition rise or fall rate	V <sub>CC</sub> = 3.6V to 5.5V		20		20		20	ns/V	

<sup>(1)</sup> All unused inputs of the device must be held at V<sub>CC</sub> or GND to ensure proper device operation. Refer to the TI application report, Implications of Slow or Floating CMOS Inputs, literature number SCBA004.

#### 5.4 Thermal Information

THERMAL METRIC(1)		D (SOIC)	UNIT
	THERMAL METRIC	16 PINS	ONII
Ī	R <sub>0JA</sub> Junction-to-ambient thermal resistance	106.6	°C/W

<sup>(1)</sup> For more information about traditional and new thermal metrics, see the IC Package Thermal Metrics application report (SPRA953). The package thermal impedance is calculated in accordance with JESD 51-7.

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<sup>(2)</sup> The input and output voltage ratings may be exceeded if the input and output current ratings are observed.



#### 5.5 Electrical Characteristics

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

PARAMETER	TEST CO.	TEST CONDITIONS		T <sub>A</sub> = 2	5 °C	–55°C to	125°C	-40°C to 85°C		UNIT
PARAMETER	TEST CO	NUITIONS	V <sub>CC</sub>	MIN	MAX	MIN	MAX	MIN	MAX	UNII
		I <sub>OH</sub> = -50μA	1.5V	1.4		1.4		1.4		
			3V	2.9		2.9		2.9		
			4.5V	4.4		4.4		4.4		
V <sub>OH</sub>	$V_I = V_{IH}$ or $V_{IL}$	I <sub>OH</sub> = -4mA	3V	2.58		2.4		2.48		V
		I <sub>OH</sub> = -24mA	4.5V			3.85				
		$I_{OH} = -50 \text{mA}^{(1)}$	5.5V					3.85		
		$I_{OH} = -75 \text{mA}^{(1)}$	5.5V							
			1.5V		0.1		0.1		0.1	
		I <sub>OL</sub> = 50μA	3V		0.1		0.1		0.1	
			4.5V		0.1		0.1		0.1	
V <sub>OL</sub>	$V_I = V_{IH}$ or $V_{IL}$	I <sub>OL</sub> = 12mA	3V		0.36		0.5		0.44	V
		I <sub>OL</sub> = 24mA	4.5V		0.36		0.5		0.44	
		I <sub>OL</sub> = 50mA <sup>(1)</sup>	5.5V				1.65			
		I <sub>OL</sub> = 75mA <sup>(1)</sup>	5.5 V						1.65	
I <sub>I</sub>	V <sub>I</sub> = V <sub>CC</sub> or GND		5.5 V		±0.1		±1		±1	μA
I <sub>CC</sub>	$V_I = V_{CC}$ or GND,	I <sub>O</sub> = 0	5.5 V		8		160		80	μA
C <sub>i</sub>					10		10		10	pF

<sup>(1)</sup> Test one output at a time, not exceeding 1-second duration. Measurement is made by forcing indicated current and measuring voltage to minimize power dissipation. Test verifies a minimum 50-Ω transmission-line drive capability at 85°C and 75-Ω transmission-line drive capability at 125°C.

Table 5-1. Act Input Load Table

INPUT	UNIT LOAD
Data	0.58
CLR	0.67
CLK	0.92

# 5.6 Timing Requirements, V<sub>CC</sub> = 1.5V

over recommended operating free-air temperature range, V<sub>CC</sub> = 1.5V (unless otherwise noted)

			-55°C to 1	-55°C to 125°C		-40°C to 85°C		
			MIN	MAX	MIN	MAX	UNIT	
f <sub>clock</sub>	Clock frequency			8		114	MHz	
	Pulse duration	CLR low	50		44		20	
I'W	Pulse duration	CLK high or low	63		55		ns	
t <sub>su</sub>	Setup time before CLK↑	Data	2		2		ns	
t <sub>h</sub>	Hold time, data after CLK ↑		2		2		ns	
t <sub>rec</sub>	Recovery time, before CLK ↑	CLR↑	1		1		ns	

## 5.7 Timing Requirements, $V_{CC} = 3.3V \pm 0.3V$

over recommended operating free-air temperature range, V<sub>CC</sub> = 3.3V ± 0.3V (unless otherwise noted)

			_		-55°C to 125°C		-40°C to	UNIT	
					MIN	MAX	MIN	MAX	ONII
f <sub>clock</sub>	Clock frequency					71		81	MHz

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over recommended operating free-air temperature range,  $V_{CC}$  = 3.3V ± 0.3V (unless otherwise noted)

			-55°C to	-55°C to 125°C		35°C	LINUT
			MIN	MAX	MIN	MAX	UNIT
t <sub>w</sub>	Pulse duration	CLR low	5.6		4.9		
	Pulse duration	CLK high or low 7			6.1		ns
t <sub>su</sub>	Setup time before CLK↑	Data	2		2		ns
t <sub>h</sub>	Hold time, data after CLK ↑		2		2		ns
t <sub>rec</sub>	Recovery time, before CLK ↑	CLR↑	1		1		ns

# 5.8 Timing Requirements, $V_{CC} = 5V \pm 0.5V$

over recommended operating free-air temperature range, V<sub>CC</sub> = 5V ± 0.5V (unless otherwise noted)

7. Teeenmienaed operating need all temperature range, VCC ov 2 0.0 V (amoes enformed neted)											
		-55°C to 1	25°C	-40°C to 85°C		UNIT					
		MIN	MAX	MIN	MAX	UNII					
Clock frequency			100		114	MHz					
Dules duration	CLR low	4		3.5		no					
ruise duration	CLK high or low	5		4.4		ns					
Setup time before CLK↑	Data	2		2		ns					
Hold time, data after CLK ↑		2		2		ns					
Recovery time, before CLK ↑	CLR↑	1		1		ns					
	Clock frequency  Pulse duration  Setup time before CLK↑  Hold time, data after CLK ↑	Clock frequency           Pulse duration         CLR low           CLK high or low           Setup time before CLK↑         Data           Hold time, data after CLK↑	-55°C to 1           MIN           Clock frequency           Pulse duration         CLR low         4           CLK high or low         5           Setup time before CLK↑         Data         2           Hold time, data after CLK↑         2	-55°C to 125°C           MIN         MAX           Clock frequency         100           Pulse duration         CLR low         4           CLK high or low         5           Setup time before CLK↑         Data         2           Hold time, data after CLK↑         2	Clock frequency   100	Clock frequency   100   114					

## 5.9 Switching Characteristics, V<sub>CC</sub> = 1.5V

over recommended operating free-air temperature range,  $V_{CC}$  = 1.5V,  $C_L$  = 50pF (unless otherwise noted) (see Load Circuit and Voltage Waveforms)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	-55°C to	125°C	-40°C to 8	5°C	UNIT	
PARAMETER	T KOM (INFOT)	10 (001701)	MIN	MAX	MIN	MAX	UNII	
f <sub>max</sub>			8		9		MHz	
t <sub>PLH</sub>	CLK	Any Q		153		139	ns	
t <sub>PHL</sub>				153		139		
t <sub>PLH</sub>	CLR	Amy O		153		139	200	
t <sub>PHL</sub>	- CLR	Any Q		153		139	ns	

# 5.10 Switching Characteristics, $V_{CC}$ = 3.3V ± 0.3V

over recommended operating free-air temperature range,  $V_{CC}$  = 3.3V ± 0.3V,  $C_L$  = 50pF (unless otherwise noted) (see Load Circuit and Voltage Waveforms)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	-55°C to	125°C	-40°C to 8	5°C	UNIT
PARAMETER	T KOM (NAPOT)		MIN	MAX	MIN	MAX	ONII
f <sub>max</sub>			71		81		MHz
t <sub>PLH</sub>	CLK	Any Q	4.3	17.1	4.4	15.5	ns
t <sub>PHL</sub>	CLK		4.3	17.1	4.4	15.5	
t <sub>PLH</sub>	CLR	A O	4.3	17.1	4.4	15.5	ns
t <sub>PHL</sub>	CLK	Any Q	4.3	17.1	4.4	15.5	

## 5.11 Switching Characteristics, $V_{CC} = 5V \pm 0.5V$

over recommended operating free-air temperature range,  $V_{CC}$  = 5V  $\pm$  0.5V,  $C_L$  = 50pF (unless otherwise noted) (see Load Circuit and Voltage Waveforms)

PARAMETER	EDOM (INDUT)	то (оитрит)	-55°C to	125°C	-40°C to 85°	LINIT	
	FROM (INPUT)		MIN	MAX	MIN	MAX	UNIT
f <sub>max</sub>			100		114		MHz

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over recommended operating free-air temperature range,  $V_{CC}$  = 5V  $\pm$  0.5V,  $C_L$  = 50pF (unless otherwise noted) (see Load Circuit and Voltage Waveforms)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	-55°C to	125°C	-40°C to 8	UNIT	
		10 (001701)	MIN	MAX	MIN	MAX	
t <sub>PLH</sub>	CLK	Any Q	3.1	12.2	3.2	11.1	ns
t <sub>PHL</sub>	CLK		3.1	12.2	3.2	11.1	
t <sub>PLH</sub>	CLR	Any O	3.1	12.2	3.2	11.1	ns
t <sub>PHL</sub>	OLIX	Any Q	3.1	12.2	3.2	11.1	

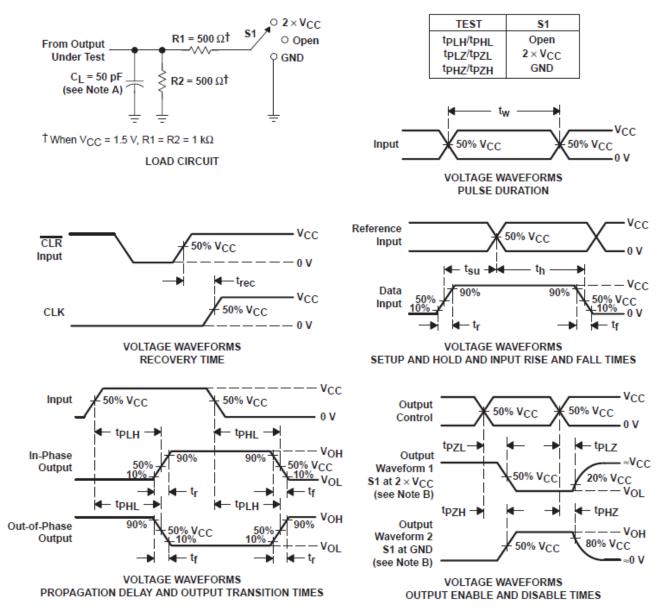
# **5.12 Operating Characteristics**

 $V_{CC}$  = 5 V,  $T_A$  = 25°C

	PARAMETER	TYP	UNIT
$C_{pd}$	Power dissipation capacitance	55	pF



### **6 Parameter Measurement Information**



- NOTES: A. C<sub>L</sub> 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. All input pulses are supplied by generators having the following characteristics: PRR ≤ 1 MHz, Z<sub>O</sub> = 50 Ω, t<sub>f</sub> = 3 ns, t<sub>f</sub> = 3 ns. Phase relationships between waveforms are arbitrary.
  - D. For clock inputs, f<sub>max</sub> is measured with the input duty cycle at 50%.
  - E. The outputs are measured one at a time, with one input transition per measurement.
  - F. tplH and tpHL are the same as tpd.
  - G. tpzL and tpzH are the same as ten.
  - H. tpLZ and tpHZ are the same as tdis.

Figure 6-1. Load Circuit and Voltage Waveforms

# 7 Detailed Description

### 7.1 Overview

Information at the data (D) inputs meeting the setup time requirements is transferred to the outputs on the positive-going edge of the clock (CLK) pulse. Clock triggering occurs at a particular voltage level and is not directly related to the transition time of the positive-going edge of CLK. When CLK is at either the high or low level, the D input has no effect at the output.

## 7.2 Functional Block Diagram

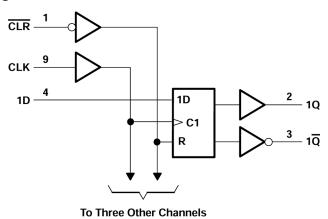


Figure 7-1. Logic Diagram (Positive Logic)

#### 7.3 Device Functional Modes

**Table 7-1. Function Table (Each Flip-flop)** 

INP	UTS		OUTPUTS				
CLR	CLK	D	Q	Q			
L	Х	Х	L	Н			
Н	1	Н	Н	L			
Н	1	L	L	Н			
Н	L	Х	$Q_0$	Q <sub>0</sub>			

## 8 Application and Implementation

#### Note

Information in the following applications sections is not part of the TI component specification, and TI does not warrant its accuracy or completeness. TI's customers are responsible for determining suitability of components for their purposes, as well as validating and testing their design implementation to confirm system functionality.

### 8.1 Power Supply Recommendations

The power supply can be any voltage between the min and max supply voltage rating located in Section 5.3.

Each  $V_{CC}$  terminal should have a good bypass capacitor to prevent power disturbance. For devices with a single supply, TI recommends 0.1  $\mu$ F and if there are multiple  $V_{CC}$  terminals, then TI recommends .01  $\mu$ F or .022  $\mu$ F for each power terminal. It is okay to parallel multiple bypass capacitors to reject different frequencies of noise. A 0.1  $\mu$ F and 1  $\mu$ F are commonly used in parallel. The bypass capacitor should be installed as close to the power terminal as possible for best results.

### 8.2 Layout

#### 8.2.1 Layout Guidelines

When using multiple bit logic devices inputs should not ever float.

In many cases, functions or parts of functions of digital logic devices are unused, for example, when only two inputs of a triple-input AND gate are used or only 3 of the 4 buffer gates are used. Such input pins should not be left unconnected because the undefined voltages at the outside connections result in undefined operational states. Specified below are the rules that must be observed under all circumstances. All unused inputs of digital logic devices must be connected to a high or low bias to prevent them from floating. The logic level that should be applied to any particular unused input depends on the function of the device. Generally they will be tied to GND or  $V_{CC}$  whichever make more sense or is more convenient. It is generally okay to float outputs unless the part is a transceiver. If the transceiver has an output enable pin it will disable the outputs section of the part when asserted. This does not disable the input section of the IOs so they cannot float when disabled.

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## 9 Device and Documentation Support

## 9.1 Documentation Support (Analog)

#### 9.1.1 Related Documentation

The table below lists quick access links. Categories include technical documents, support and community resources, tools and software, and quick access to sample or buy.

#### Table 9-1. Related Links

PARTS	PRODUCT FOLDER	SAMPLE & BUY	TECHNICAL DOCUMENTS	TOOLS & SOFTWARE	SUPPORT & COMMUNITY
CD74AC175	Click here	Click here	Click here	Click here	Click here

## 9.2 Receiving Notification of Documentation Updates

To receive notification of documentation updates, navigate to the device product folder on ti.com. Click on *Notifications* to register and receive a weekly digest of any product information that has changed. For change details, review the revision history included in any revised document.

### 9.3 Support Resources

TI E2E<sup>™</sup> support forums are an engineer's go-to source for fast, verified answers and design help — straight from the experts. Search existing answers or ask your own question to get the quick design help you need.

Linked content is provided "AS IS" by the respective contributors. They do not constitute TI specifications and do not necessarily reflect TI's views; see TI's Terms of Use.

#### 9.4 Trademarks

TI E2E<sup>™</sup> is a trademark of Texas Instruments.

All trademarks are the property of their respective owners.

## 9.5 Electrostatic Discharge Caution



This integrated circuit can be damaged by ESD. Texas Instruments recommends that all integrated circuits be handled with appropriate precautions. Failure to observe proper handling and installation procedures can cause damage.

ESD damage can range from subtle performance degradation to complete device failure. Precision integrated circuits may be more susceptible to damage because very small parametric changes could cause the device not to meet its published specifications.

#### 9.6 Glossary

TI Glossary

This glossary lists and explains terms, acronyms, and definitions.

### 10 Revision History

NOTE: Page numbers for previous revisions may differ from page numbers in the current version.

#### Changes from Revision \* (April 2003) to Revision A (April 2024)

Page

## 11 Mechanical, Packaging, and Orderable Information

The following pages include mechanical, packaging, and orderable information. This information is the most current data available for the designated devices. This data is subject to change without notice and revision of this document. For browser-based versions of this data sheet, refer to the left-hand navigation.



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#### PACKAGING INFORMATION

Orderable Device	Status	Package Type	Package Drawing	Pins	Package Qty	Eco Plan	Lead finish/ Ball material	MSL Peak Temp	Op Temp (°C)	Device Marking (4/5)	Samples
CD74AC175M	OBSOLETE	SOIC	D	16		TBD	Call TI	Call TI	-55 to 125	AC175M	
CD74AC175M96	ACTIVE	SOIC	D	16	2500	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-55 to 125	AC175M	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.

**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.

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# **PACKAGE MATERIALS INFORMATION**

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### TAPE AND REEL INFORMATION





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

#### 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
CD74AC175M96	SOIC	D	16	2500	330.0	12.4	3.75	3.75	1.15	8.0	12.0	Q1
CD74AC175M96	SOIC	D	16	2500	330.0	16.4	6.5	10.3	2.1	8.0	16.0	Q1
CD74AC175M96	SOIC	D	16	2500	330.0	16.4	6.5	10.3	2.1	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)
CD74AC175M96	SOIC	D	16	2500	340.5	336.1	32.0
CD74AC175M96	SOIC	D	16	2500	353.0	353.0	32.0
CD74AC175M96	SOIC	D	16	2500	353.0	353.0	32.0

# D (R-PDS0-G16)

## PLASTIC SMALL OUTLINE



NOTES:

- A. All linear dimensions are in inches (millimeters).
- 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 0.006 (0,15) each side.
- Body width does not include interlead flash. Interlead flash shall not exceed 0.017 (0,43) each side.
- E. Reference JEDEC MS-012 variation AC.



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