DATA SHEET

For a complete data sheet, please also download:

- The IC06 74HC/HCT/HCU/HCMOS Logic Family Specifications
- The IC06 74HC/HCT/HCU/HCMOS Logic Package Information
- The IC06 74HC/HCT/HCU/HCMOS Logic Package Outlines

74HC/HCT175
Quad D-type flip-flop with reset; positive-edge trigger

Product specification
Supersedes data of December 1990
File under Integrated Circuits, IC06

1998 Jul 08

Philips Semiconductors

PHILIPS

Quad D-type flip-flop with reset; positive-edge trigger 74HC/HCT175

FEATURES

- Four edge-triggered D flip-flops
- Output capability: standard
- I_{CC} category: MSI

GENERAL DESCRIPTION

The 74HC/HCT175 are high-speed Si-gate CMOS devices and are pin compatible with low power Schottky TTL (LSTTL). They are specified in compliance with JEDEC standard no. 7A.

The 74HC/HCT175 have four edge-triggered, D-type flip-flops with individual D inputs and both Q and $\overline{Q}$ outputs.
The common clock (CP) and master reset ($\overline{MR}$) inputs load and reset (clear) all flip-flops simultaneously.
The state of each D input, one set-up time before the LOW-to-HIGH clock transition, is transferred to the corresponding output (Q_n) of the flip-flop.

All Q_n outputs will be forced LOW independently of clock or data inputs by a LOW voltage level on the $\overline{MR}$ input.

The device is useful for applications where both the true and complement outputs are required and the clock and master reset are common to all storage elements.

QUICK REFERENCE DATA

GND = 0 V; T_{amb} = 25 °C; $t_r = t_f$ = 6 ns

SYMBOL	PARAMETER	CONDITIONS	TYPICAL		UNIT
			HC	HCT	
t_{PHL}	propagation delay	C_L = 15 pF; V_{CC} = 5 V			
	CP to Q_n, $\overline{Q}_n$		17	16	ns
	$\overline{MR}$ to Q_n		15	19	ns
t_{PLH}	propagation delay				
	CP to Q_n, $\overline{Q}_n$		17	16	ns
	$\overline{MR}$ to $\overline{Q}_n$		15	16	ns
f_{max}	maximum clock frequency		83	54	MHz
C_I	input capacitance		3.5	3.5	pF
C_{PD}	power dissipation capacitance per flip-flop	notes 1 and 2	32	34	pF

Notes

1. C_{PD} is used to determine the dynamic power dissipation (P_D in μW):

   $P_D = C_{PD} \times V_{CC}^2 \times f_i + \sum (C_L \times V_{CC}^2 \times f_o)$ where:

   f_i = input frequency in MHz

   f_o = output frequency in MHz

   $\sum (C_L \times V_{CC}^2 \times f_o)$ = sum of outputs

   C_L = output load capacitance in pF

   V_{CC} = supply voltage in V

2. For HC the condition is V_I = GND to V_{CC}
   For HCT the condition is V_I = GND to V_{CC} – 1.5 V

ORDERING INFORMATION

TYPE NUMBER	PACKAGE		
	NAME	DESCRIPTION	VERSION
74HC175N; 74HCT175N	DIP16	plastic dual in-line package; 16 leads (300 mil); long body	SOT38-1
74HC175D; 74HCT175D	SO16	plastic small outline package; 16 leads; body width 3.9 mm	SOT109-1
74HC175DB; 74HCT175DB	SSOP16	plastic shrink small outline package; 16 leads; body width 5.3 mm	SOT338-1
74HC175PW; 74HCT175PW	TSSOP16	plastic thin shrink small outline package; 16 leads; body width 4.4 mm	SOT403-1

PIN DESCRIPTION

PIN NO.	SYMBOL	NAME AND FUNCTION
1	$\overline{MR}$	master reset input (active LOW)
2, 7, 10, 15	Q_0 to Q_3	flip-flop outputs
3, 6, 11, 14	$\overline{Q}_0$ to $\overline{Q}_3$	complementary flip-flop outputs
4, 5, 12, 13	D_0 to D_3	data inputs
8	GND	ground (0 V)
9	CP	clock input (LOW-to-HIGH, edge-triggered)
16	V_{CC}	positive supply voltage

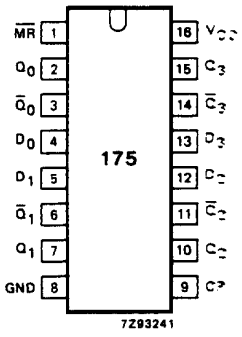


Fig.1 Pin configuration.

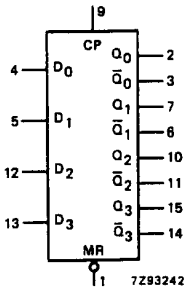


Fig.2 Logic symbol.

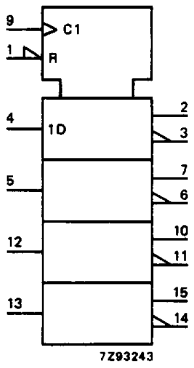


Fig.3 IEC logic symbol.

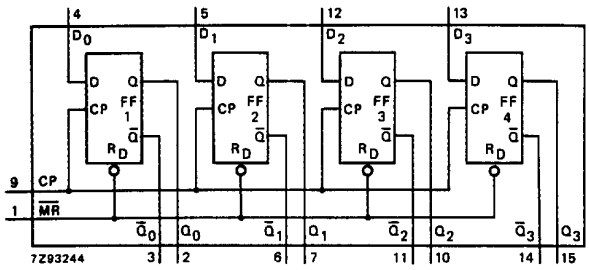


Fig.4 Functional diagram.

FUNCTION TABLE

OPERATING MODES	INPUTS			OUTPUTS	
	$\overline{MR}$	CP	D_n	Q_n	$\overline{Q}_n$
reset (clear)	L	X	X	L	H
load “1”	H	↑	h	H	L
load “0”	H	↑	I	L	H

Note

1. H = HIGH voltage level
   h = HIGH voltage level one set-up time prior to the LOW-to-HIGH CP transition
   L = LOW voltage level
   I = LOW voltage level one set-up time prior to the LOW-to-HIGH CP transition
   ↑ = LOW-to-HIGH CP transition
   X = don’t care

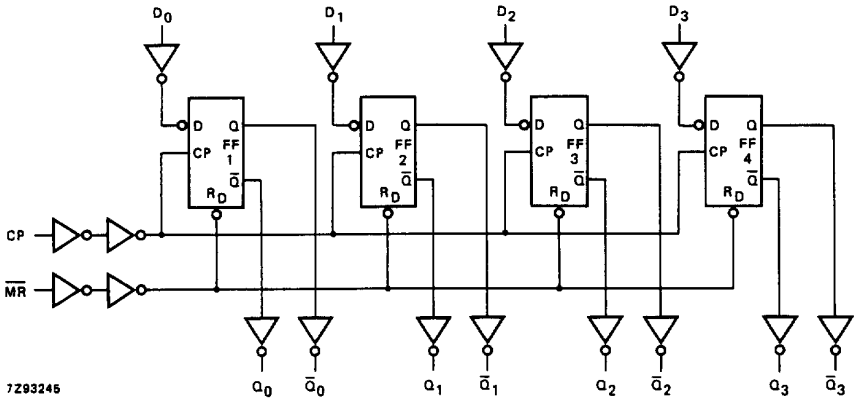


Fig.5 Logic diagram.

DC CHARACTERISTICS FOR 74HC

For the DC characteristics see *"74HC/HCT/HCU/HCMOS Logic Family Specifications"*.

Output capability: standard
I_{CC} category: MSI

AC CHARACTERISTICS FOR 74HC

GND = 0 V; $t_r = t_f$ = 6 ns; C_L = 50 pF

SYMBOL	PARAMETER	T_{amb} (°C)							UNIT	TEST CONDITIONS	
		74HC								V_{CC} (V)	WAVEFORMS
		+25			–40 to +85		–40 to +125				
		min.	typ.	max.	min.	max.	min.	max.			
t_{PHL}/ t_{PLH}	propagation delay CP to Q_n, $\overline{Q}_n$		55	175		220		265	ns	2.0	Fig.6
			20	35		44		53		4.5	
			16	30		37		45		6.0	
t_{PHL}/ t_{PLH}	propagation delay $\overline{MR}$ to Q_n, $\overline{Q}_n$		50	150		190		225	ns	2.0	Fig.8
			18	30		38		45		4.5	
			14	26		33		38		6.0	
t_{THL}/ t_{TLH}	output transition time		19	75		95		110	ns	2.0	Fig.6
			7	15		19		22		4.5	
			6	13		16		19		6.0	
t_W	clock pulse width HIGH or LOW	80	22		100		120		ns	2.0	Fig.6
		16	8		20		24			4.5	
		14	6		17		20			6.0	
t_W	master reset pulse width LOW	80	19		100		120		ns	2.0	Fig.8
		16	7		20		24			4.5	
		14	6		17		20			6.0	
t_{rem}	removal time $\overline{MR}$ to CP	5	–33		5		5		ns	2.0	Fig.8
		5	–12		5		5			4.5	
		5	–10		5		5			6.0	
t_{su}	set-up time D_n to CP	80	3		100		120		ns	2.0	Fig.7
		16	1		20		24			4.5	
		14	1		17		20			6.0	
t_h	hold time CP to D_n	25	2		30		40		ns	2.0	Fig.7
		5	0		6		8			4.5	
		4	0		5		7			6.0	
f_{max}	maximum clock pulse frequency	6.0	25		4.8		4.0		MHz	2.0	Fig.6
		30	75		24		20			4.5	
		35	89		28		24			6.0	

DC CHARACTERISTICS FOR 74HCT

For the DC characteristics see *"74HC/HCT/HCU/HCMOS Logic Family Specifications"*.

Output capability: standard
I_{CC} category: MSI

Note to HCT types

The value of additional quiescent supply current (ΔI_{CC}) for a unit load of 1 is given in the family specifications. To determine ΔI_{CC} per input, multiply this value by the unit load coefficient shown in the table below.

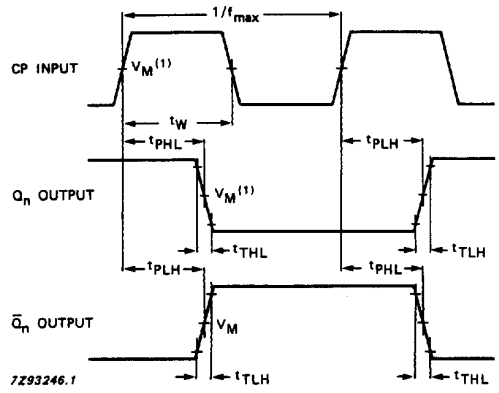
INPUT	UNIT LOAD COEFFICIENT
$\overline{MR}$	1.00
CP	0.60
D_n	0.40

AC CHARACTERISTICS FOR 74HCT

GND = 0 V; $t_r = t_f$ = 6 ns; C_L = 50 pF

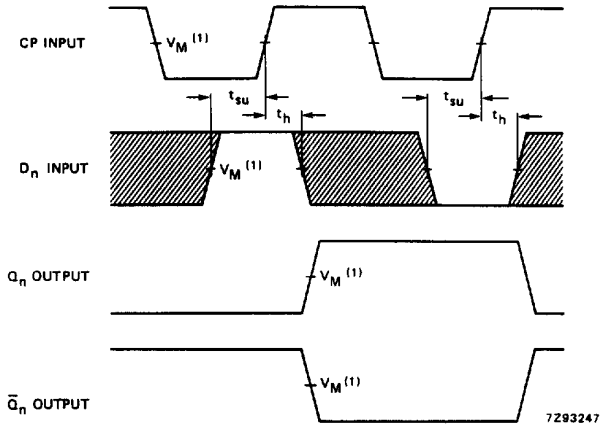
SYMBOL	PARAMETER	T_{amb} (°C)							UNIT	TEST CONDITIONS	
		74HCT								V_{CC} (V)	WAVEFORMS
		+25			−40 to +85		−40 to +125				
		min.	typ.	max.	min.	max.	min.	max.			
t_{PHL}/ t_{PLH}	propagation delay CP to Q_n, $\overline{Q}_n$		19	33		41		50	ns	4.5	Fig.6
t_{PHL}	propagation delay $\overline{MR}$ to Q_n		22	38		48		57	ns	4.5	Fig.8
t_{PLH}	propagation delay $\overline{MR}$ to $\overline{Q}_n$		19	35		44		53	ns	4.5	Fig.8
t_{THL}/ t_{TLH}	output transition time		7	15		19		22	ns	4.5	Fig.6
t_W	clock pulse width HIGH or LOW	20	12		25		30		ns	4.5	Fig.6
t_W	master reset pulse width LOW	20	11		25		30		ns	4.5	Fig.8
t_{rem}	removal time $\overline{MR}$ to CP	5	−10		5		5		ns	4.5	Fig.8
t_{su}	set-up time D_n to CP	16	5		20		24		ns	4.5	Fig.7
t_h	hold time CP to D_n	5	0		5		5		ns	4.5	Fig.7
f_{max}	maximum clock pulse frequency	25	49		20		17		MHz	4.5	Fig.6

AC WAVEFORMS



(1) HC : V_M = 50%; V_I = GND to V_{CC}.
HCT : V_M = 1.3 V; V_I = GND to 3 V.

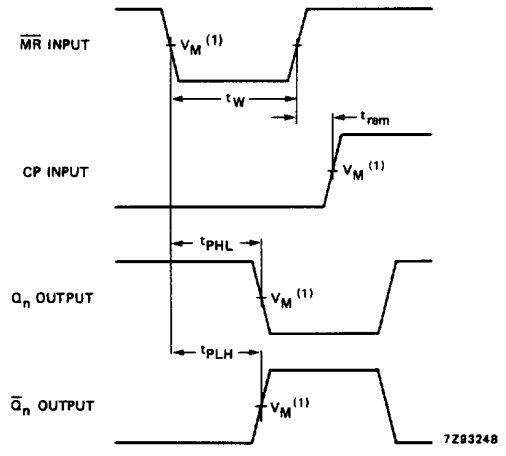
Fig.6 Waveforms showing the clock (CP) to outputs (Q_n, $\overline{Q}n$) propagation delays, the clock pulse width, output transition times and the maximum clock pulse frequency.



The shaded areas indicate when the input is permitted to change for predictable output performance.

(1) HC : V_M = 50%; V_I = GND to V_{CC}.
HCT : V_M = 1.3 V; V_I = GND to 3 V.

Fig.7 Waveforms showing the data set-up and hold times for the data input (D_n).

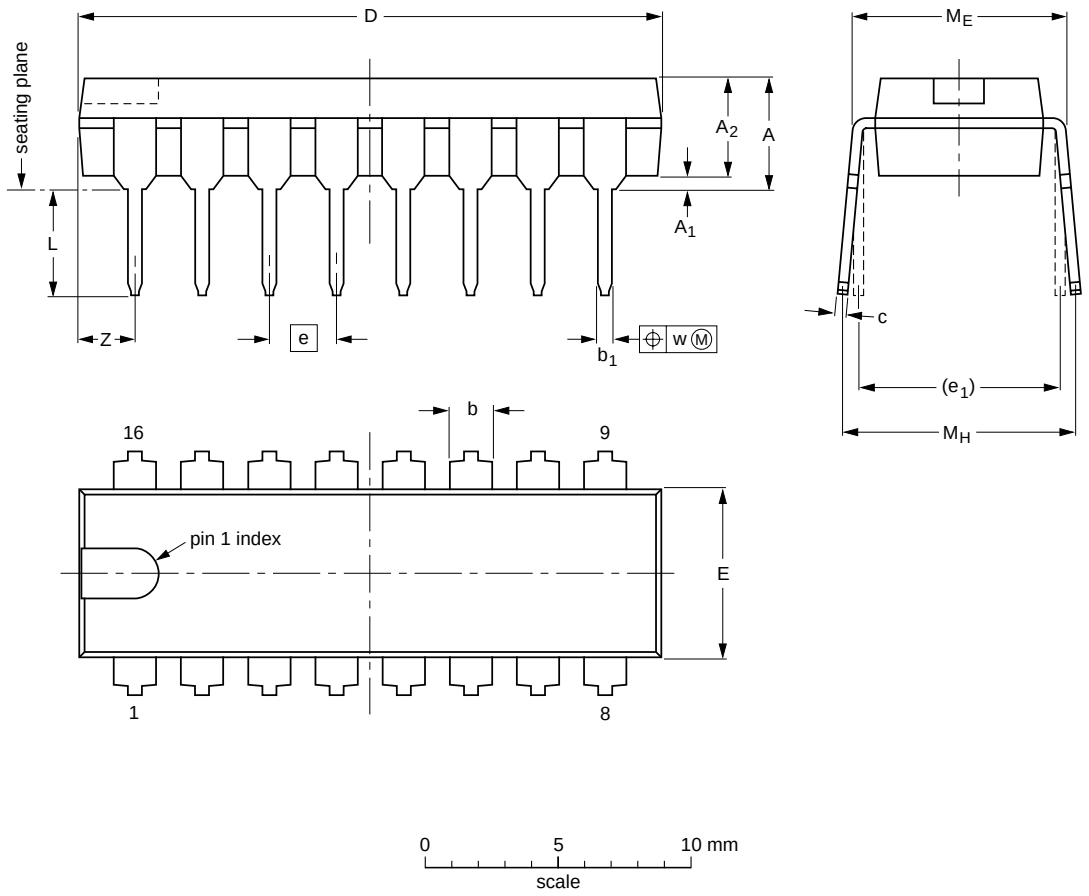


(1) HC : V_M = 50%; V_I = GND to V_{CC}.
HCT : V_M = 1.3 V; V_I = GND to 3 V.

Fig.8 Waveforms showing the master reset ($\overline{MR}$) pulse width, the master reset to outputs (Q_n, $\overline{Q}_n$) propagation delays and the master reset to clock (CP) removal time.

PACKAGE OUTLINES

DIP16: plastic dual in-line package; 16 leads (300 mil); long body **SOT38-1**



DIMENSIONS (inch dimensions are derived from the original mm dimensions)

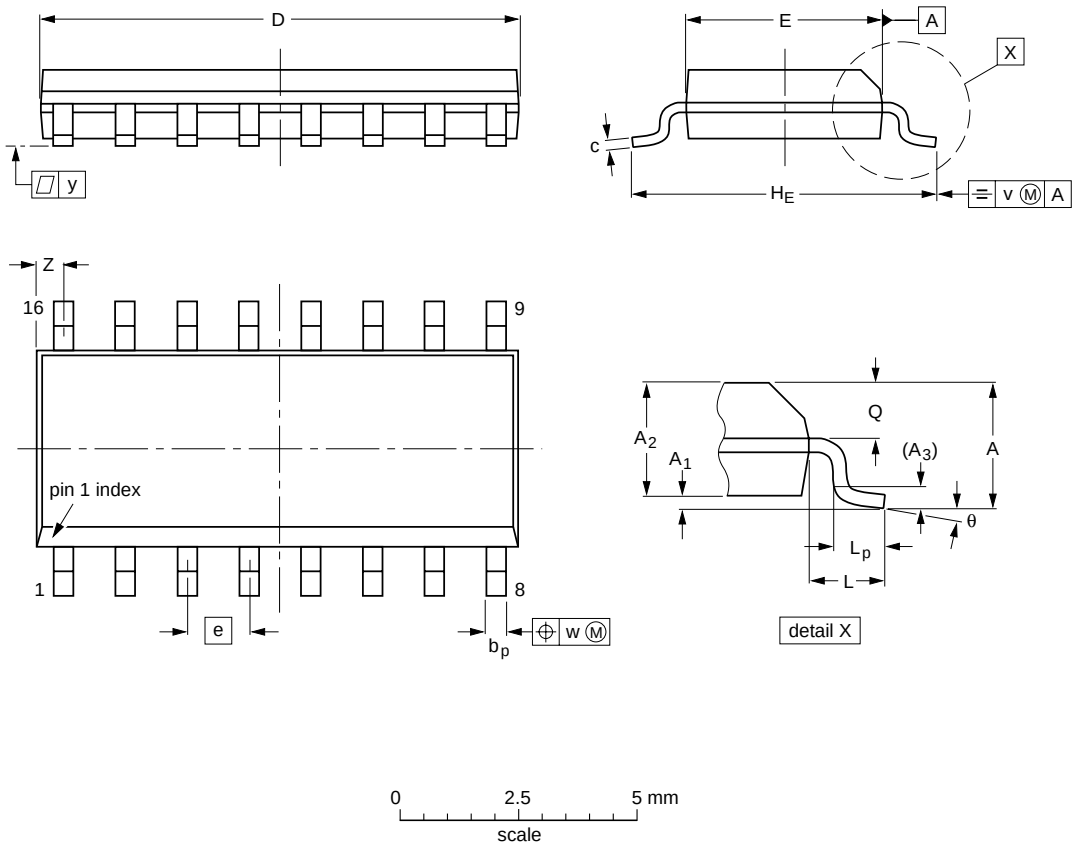
UNIT	A max.	A_1 min.	A_2 max.	b	b_1	c	D (1)	E (1)	e	e_1	L	M_E	M_H	w	Z (1) max.
mm	4.7	0.51	3.7	1.40 1.14	0.53 0.38	0.32 0.23	21.8 21.4	6.48 6.20	2.54	7.62	3.9 3.4	8.25 7.80	9.5 8.3	0.254	2.2
inches	0.19	0.020	0.15	0.055 0.045	0.021 0.015	0.013 0.009	0.86 0.84	0.26 0.24	0.10	0.30	0.15 0.13	0.32 0.31	0.37 0.33	0.01	0.087

Note

1. Plastic or metal protrusions of 0.25 mm maximum per side are not included.

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT38-1	050G09	MO-001AE				~~92-10-02~~ 95-01-19

SO16: plastic small outline package; 16 leads; body width 3.9 mm **SOT109-1**



DIMENSIONS (inch dimensions are derived from the original mm dimensions)

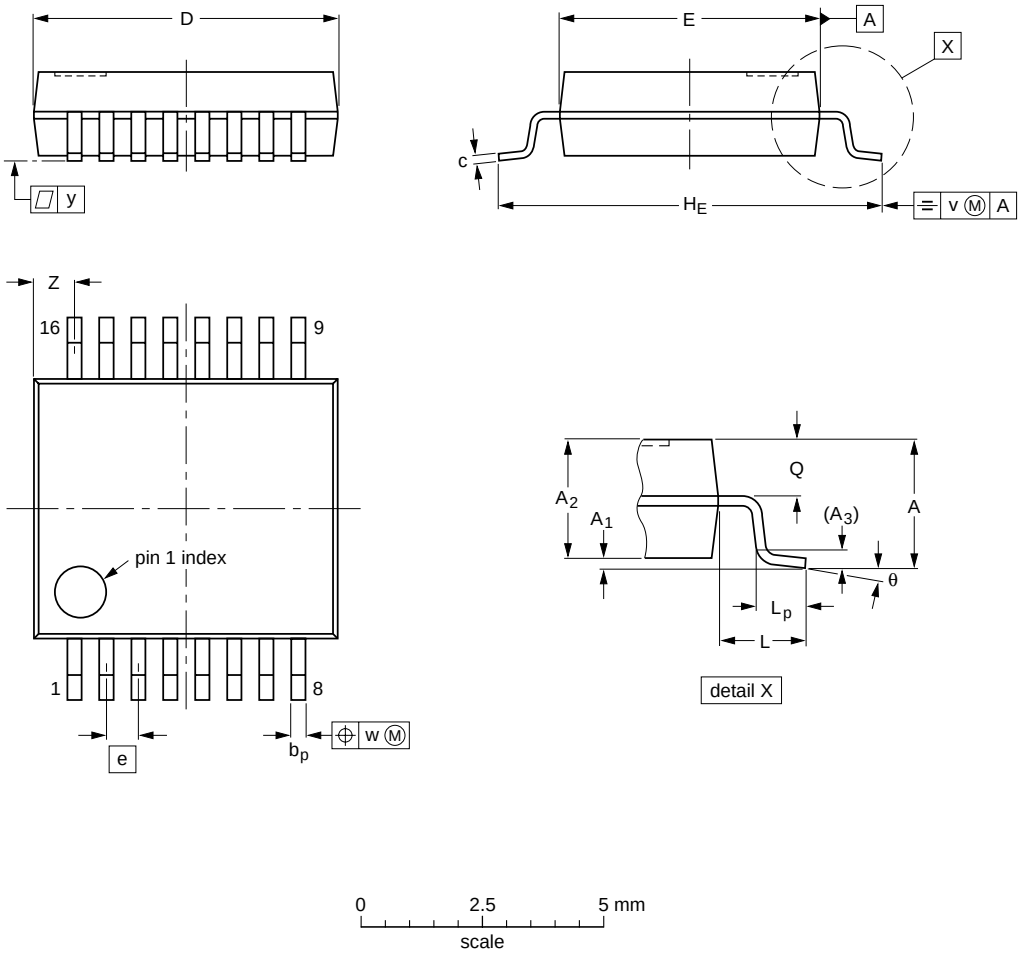
UNIT	A max.	A_1	A_2	A_3	b_p	c	$D^{(1)}$	$E^{(1)}$	e	H_E	L	L_p	Q	v	w	y	$Z^{(1)}$	θ
mm	1.75	0.25 0.10	1.45 1.25	0.25	0.49 0.36	0.25 0.19	10.0 9.8	4.0 3.8	1.27	6.2 5.8	1.05	1.0 0.4	0.7 0.6	0.25	0.25	0.1	0.7 0.3	8^o 0^o
inches	0.069	0.010 0.004	0.057 0.049	0.01	0.019 0.014	0.0100 0.0075	0.39 0.38	0.16 0.15	0.050	0.244 0.228	0.041	0.039 0.016	0.028 0.020	0.01	0.01	0.004	0.028 0.012	

Note

1. Plastic or metal protrusions of 0.15 mm maximum per side are not included.

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT109-1	076E07S	MS-012AC				~~95-01-23~~ 97-05-22

SSOP16: plastic shrink small outline package; 16 leads; body width 5.3 mm **SOT338-1**



DIMENSIONS (mm are the original dimensions)

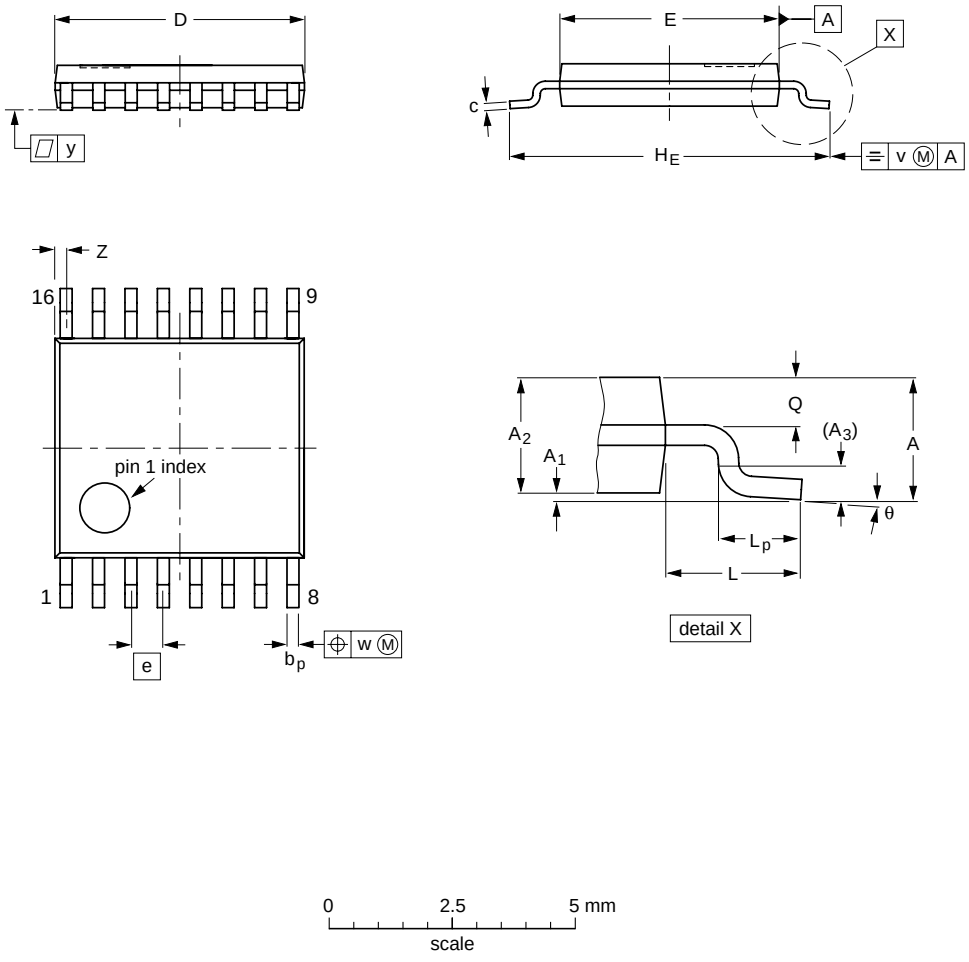
UNIT	A max.	A_1	A_2	A_3	b_p	c	D (1)	E (1)	e	H_E	L	L_p	Q	v	w	y	Z (1)	θ
mm	2.0	0.21 0.05	1.80 1.65	0.25	0.38 0.25	0.20 0.09	6.4 6.0	5.4 5.2	0.65	7.9 7.6	1.25	1.03 0.63	0.9 0.7	0.2	0.13	0.1	1.00 0.55	8^o 0^o

Note

1. Plastic or metal protrusions of 0.25 mm maximum per side are not included.

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT338-1		MO-150AC				~~94-01-14~~ 95-02-04

TSSOP16: plastic thin shrink small outline package; 16 leads; body width 4.4 mm **SOT403-1**



DIMENSIONS (mm are the original dimensions)

UNIT	A max.	A_1	A_2	A_3	b_p	c	D (1)	E (2)	e	H_E	L	L_p	Q	v	w	y	Z (1)	θ
mm	1.10	0.15 0.05	0.95 0.80	0.25	0.30 0.19	0.2 0.1	5.1 4.9	4.5 4.3	0.65	6.6 6.2	1.0	0.75 0.50	0.4 0.3	0.2	0.13	0.1	0.40 0.06	8^o 0^o

Notes

1. Plastic or metal protrusions of 0.15 mm maximum per side are not included.
2. Plastic interlead protrusions of 0.25 mm maximum per side are not included.

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT403-1		MO-153				~~94-07-12~~ 95-04-04

SOLDERING

Introduction

There is no soldering method that is ideal for all IC packages. Wave soldering is often preferred when through-hole and surface mounted components are mixed on one printed-circuit board. However, wave soldering is not always suitable for surface mounted ICs, or for printed-circuits with high population densities. In these situations reflow soldering is often used.

This text gives a very brief insight to a complex technology. A more in-depth account of soldering ICs can be found in our *"Data Handbook IC26; Integrated Circuit Packages"* (order code 9398 652 90011).

DIP

SOLDERING BY DIPPING OR BY WAVE

The maximum permissible temperature of the solder is 260 °C; solder at this temperature must not be in contact with the joint for more than 5 seconds. The total contact time of successive solder waves must not exceed 5 seconds.

The device may be mounted up to the seating plane, but the temperature of the plastic body must not exceed the specified maximum storage temperature ($T_{stg\ max}$). If the printed-circuit board has been pre-heated, forced cooling may be necessary immediately after soldering to keep the temperature within the permissible limit.

REPAIRING SOLDERED JOINTS

Apply a low voltage soldering iron (less than 24 V) to the lead(s) of the package, below the seating plane or not more than 2 mm above it. If the temperature of the soldering iron bit is less than 300 °C it may remain in contact for up to 10 seconds. If the bit temperature is between 300 and 400 °C, contact may be up to 5 seconds.

SO, SSOP and TSSOP

REFLOW SOLDERING

Reflow soldering techniques are suitable for all SO, SSOP and TSSOP packages.

Reflow soldering requires solder paste (a suspension of fine solder particles, flux and binding agent) to be applied to the printed-circuit board by screen printing, stencilling or pressure-syringe dispensing before package placement.

Several techniques exist for reflowing; for example, thermal conduction by heated belt. Dwell times vary between 50 and 300 seconds depending on heating method.

Typical reflow temperatures range from 215 to 250 °C. Preheating is necessary to dry the paste and evaporate the binding agent. Preheating duration: 45 minutes at 45 °C.

WAVE SOLDERING

Wave soldering can be used for all SO packages. Wave soldering is **not** recommended for SSOP and TSSOP packages, because of the likelihood of solder bridging due to closely-spaced leads and the possibility of incomplete solder penetration in multi-lead devices.

If wave soldering is used - **and cannot be avoided for SSOP and TSSOP packages** - the following conditions must be observed:

- A double-wave (a turbulent wave with high upward pressure followed by a smooth laminar wave) soldering technique should be used.
- The longitudinal axis of the package footprint must be parallel to the solder flow and must incorporate solder thieves at the downstream end.

Even with these conditions:

- **Only consider wave soldering SSOP packages that have a body width of 4.4 mm, that is SSOP16 (SOT369-1) or SSOP20 (SOT266-1).**
- **Do not consider wave soldering TSSOP packages with 48 leads or more, that is TSSOP48 (SOT362-1) and TSSOP56 (SOT364-1).**

During placement and before soldering, the package must be fixed with a droplet of adhesive. The adhesive can be applied by screen printing, pin transfer or syringe dispensing. The package can be soldered after the adhesive is cured.

Maximum permissible solder temperature is 260 °C, and maximum duration of package immersion in solder is 10 seconds, if cooled to less than 150 °C within 6 seconds. Typical dwell time is 4 seconds at 250 °C.

A mildly-activated flux will eliminate the need for removal of corrosive residues in most applications.

REPAIRING SOLDERED JOINTS

Fix the component by first soldering two diagonally- opposite end leads. Use only a low voltage soldering iron (less than 24 V) applied to the flat part of the lead. Contact time must be limited to 10 seconds at up to 300 °C. When using a dedicated tool, all other leads can be soldered in one operation within 2 to 5 seconds between 270 and 320 °C.

DEFINITIONS

Data sheet status	
Objective specification	This data sheet contains target or goal specifications for product development.
Preliminary specification	This data sheet contains preliminary data; supplementary data may be published later.
Product specification	This data sheet contains final product specifications.
Limiting values	
Limiting values given are in accordance with the Absolute Maximum Rating System (IEC 134). Stress above one or more of the limiting values may cause permanent damage to the device. These are stress ratings only and operation of the device at these or at any other conditions above those given in the Characteristics sections of the specification is not implied. Exposure to limiting values for extended periods may affect device reliability.	
Application information	
Where application information is given, it is advisory and does not form part of the specification.	

LIFE SUPPORT APPLICATIONS

These products are not designed for use in life support appliances, devices, or systems where malfunction of these products can reasonably be expected to result in personal injury. Philips customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Philips for any damages resulting from such improper use or sale.

74HC175;74HCT175; quad D-type flip-flop with reset; positive-edge trigger

Information as of 2003-04-22

- Products
- MultiMarket Semiconductors
- Product Selector
- Catalog by Function
- Catalog by System
- Cross-reference
- Packages
- End of Life information
- Distributors Go Here!
- Models
- SoC solutions

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General description

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The 74HC/HCT175 have four edge-triggered, D-type flip-flops with individual D inputs and both Q and Q outputs.

The common clock (CP) and master reset (MR) inputs load and reset (clear) all flip-flops simultaneously.

The state of each D inputone set-up time before the LOW-to-HIGH clock transitionis transferred to the corresponding output (Q_n) of the flip-flop.

All Qn outputs will be forced LOW independently of clock or data inputs by a LOW voltage level on the MR input. The device is useful for applications where both the true and complement outputs are required and the clock and master reset are common to all storage elements.

Features

- Four edge-triggered D flip-flops
- Output capability: standard
- I_{CC} category: MSI

Datasheet

Type number	Title	Publication release date	Datasheet status	Page count	File size (kB)	Datasheet
74HC175;74HCT175	quad D-type flip-flop with reset; positive-edge trigger	7/8/1998	Product specification	5	91	Download

Additional datasheet info

To complete the device datasheet with package and family information, also download the following PDF files. The "Logic Package Information" document is required to determine in which package(s) this device is available.

	Document	Description
1	HCT_FAMILY_SPECIFICATIONS	HC/T Family Specifications, The IC06 74HC/HCT/HCMOS Logic Family Specifications
2	HCT_PACKAGE_INFO	HC/T Package Info, The IC06 74HC/HCT/HCMOS Logic Package Information
3	HCT_PACKAGE_OUTLINES	HC/T Package Outlines, The IC06 74HC/HCT/HCMOS Logic Package Outlines

Parametrics

Type number	Package	Description	Propagation Delay(ns)	Voltage	No. of Pins	Power Dissipation Considerations	Logic Switching Levels	Output Drive Capability
74HC175D	SOT109 (SO16)	Quad D-Type Flip-Flop with Reset; Positive-Edge Trigger	15	5 Volts +	16	Low Power or Battery Applications	CMOS	Low
74HC175DB	SOT338-1 (SSOP16)	Quad D-Type Flip-Flop with Reset; Positive-Edge Trigger	15	5 Volts +	16	Low Power or Battery Applications	CMOS	Low
74HC175N	SOT38-1 (DIP16)	Quad D-Type Flip-Flop with Reset; Positive-Edge Trigger	15	5 Volts +	16	Low Power or Battery Applications	CMOS	Low
74HC175PW	SOT403-1 (TSSOP16)	Quad D-Type Flip-Flop with Reset; Positive-Edge Trigger	15	5 Volts +	16	Low Power or Battery Applications	CMOS	Low

74HCT175D	SOT109 (SO16)	Quad D-Type Flip-Flop with Reset; Positive-Edge Trigger; TTL Enabled	15	5 Volts +	16	Low Power or Battery Applications	TTL	Low
74HCT175DB	SOT338-1 (SSOP16)	Quad D-Type Flip-Flop with Reset; Positive-Edge Trigger; TTL Enabled	15	5 Volts +	16	Low Power or Battery Applications	TTL	Low
74HCT175N	SOT38-1 (DIP16)	Quad D-Type Flip-Flop with Reset; Positive-Edge Trigger; TTL Enabled	15	5 Volts +	16	Low Power or Battery Applications	TTL	Low
74HCT175PW	SOT403-1 (TSSOP16)	Quad D-Type Flip-Flop with Reset; Positive-Edge Trigger; TTL Enabled	15	5 Volts +	16	Low Power or Battery Applications	TTL	Low

Products, packages, availability and ordering

Type number	North American type number	Ordering code (12NC)	Marking/Packing Discretes packing info	Package	Device status	Buy online
74HC175D	74HC175D	9337 145 80652	Standard Marking * Bulk Pack, CECC	SOT109 (SO16)	Full production	order this -
	74HC175D-T	9337 145 80653	Standard Marking * Reel Pack, SMD, 13", CECC	SOT109 (SO16)	Full production	order this -
74HC175DB	74HC175DB	9351 873 90112	Standard Marking * Bulk Pack	SOT338-1 (SSOP16)	Full production	order this -
	74HC175DB-T	9351 873 90118	Standard Marking * Reel Pack, SMD, 13"	SOT338-1 (SSOP16)	Full production	order this -

74HC175N	74HC175N	9336 694 40652	Standard Marking * Bulk Pack, CECC	SOT38-1 (DIP16)	Full production	order this -
74HC175PW	74HC175PW	9351 745 60112	Standard Marking * Bulk Pack	SOT403-1 (TSSOP16)	Full production	order this -
	74HC175PW-T	9351 745 60118	Standard Marking * Reel Pack, SMD, 13"	SOT403-1 (TSSOP16)	Full production	order this -
74HCT175D	74HCT175D	9337 150 60652	Standard Marking * Bulk Pack, CECC	SOT109 (SO16)	Full production	order this -
	74HCT175D-T	9337 150 60653	Standard Marking * Reel Pack, SMD, 13", CECC	SOT109 (SO16)	Full production	order this -
74HCT175DB	74HCT175DB	9351 885 90112	Standard Marking * Bulk Pack	SOT338-1 (SSOP16)	Full production	order this -
	74HCT175DB-T	9351 885 90118	Standard Marking * Reel Pack, SMD, 13"	SOT338-1 (SSOP16)	Full production	order this -
74HCT175N	74HCT175N	9336 700 70652	Standard Marking * Bulk Pack, CECC	SOT38-1 (DIP16)	Full production	order this -
74HCT175PW	74HCT175PW	9351 889 70112	Standard Marking * Bulk Pack	SOT403-1 (TSSOP16)	Full production	order this -
	74HCT175PW-T	9351 889 70118	Standard Marking * Reel Pack, SMD, 13"	SOT403-1 (TSSOP16)	Full production	order this -

Products in the above table are all in production. Some variants are discontinued; click here for information on these variants.

Similar products

74HC175;74HCT175 links to the similar products page containing an overview of products that are similar in function or related to the type number(s) as listed on this page. The similar products page includes products from the same catalog tree(s), relevant selection guides and products from the same functional category.

Support & tools

HC/T Family Specifications, The IC06 74HC/HCT/HCMOS Logic Family Specifications(date 01-Mar-98)
HC/T User Guide(date 01-Nov-97)

Email/translate this product information

- Email this product information.
- Translate this product information page from English to:
  French Translate

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