
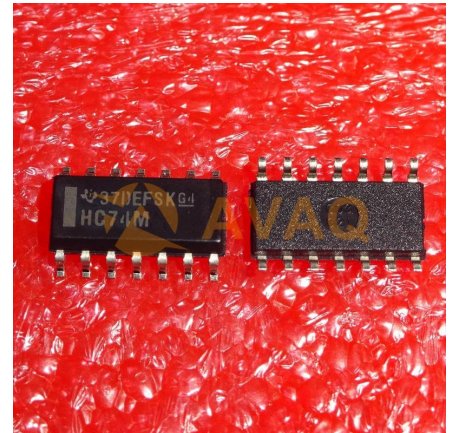


## Flip Flop D-Type Pos-Edge 2-Element 14-Pin SOIC Tube

<b>Manufacturer:</b>	<a href="#">Texas Instruments, Inc</a>
<b>Package/Case:</b>	SOP14
<b>Product Type:</b>	Logic ICs
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	Active



Images are for reference only

[Inquiry](#)

### General Description

The 'HC74 and 'HCT74 utilize silicon gate CMOS technology to achieve operating speeds equivalent to LSTTL parts. They exhibit the low power consumption of standard CMOS integrated circuits, together with the ability to drive 10 LSTTL loads.

This flip-flop has independent DATA, SET $\setminus$ , RESET $\setminus$  and CLOCK inputs and Q and Q $\setminus$  outputs. The logic level present at the data input is transferred to the output during the positive-going transition of the clock pulse. SET $\setminus$  and RESET $\setminus$  are independent of the clock and are accomplished by a low level at the appropriate input.

The HCT logic family is functionally as well as pin compatible with the standard LS logic family.

## Key Features

Hysteresis on Clock Inputs for Improved Noise Immunity and Increased Input Rise and Fall Times

Asynchronous Set and Reset

Complementary Outputs

Buffered Inputs

Typical  $f_{MAX} = 50\text{MHz}$  at  $V_{CC} = 5\text{V}$ ,  $CL = 15\text{pF}$ ,  $T_A = 25^\circ\text{C}$

Fanout (Over Temperature Range)

Standard Outputs . . . . . 10 LSTTL Loads

Bus Driver Outputs . . . . . 15 LSTTL Loads

Wide Operating Temperature Range . . .  $-55^\circ\text{C}$  to  $125^\circ\text{C}$

Balanced Propagation Delay and Transition Times

Significant Power Reduction Compared to LSTTL Logic ICs

HC Types

2V to 6V Operation

High Noise Immunity:  $NIL = 30\%$ ,  $NIH = 30\%$  of  $V_{CC}$  at  $V_{CC} = 5\text{V}$

HCT Types

4.5V to 5.5V Operation

Direct LSTTL Input Logic Compatibility,  $V_{IL} = 0.8\text{V}$  (Max),  $V_{IH} = 2\text{V}$  (Min)

CMOS Input Compatibility,  $I_{1\mu\text{A}}$  at  $V_{OL}$ ,  $V_{OH}$

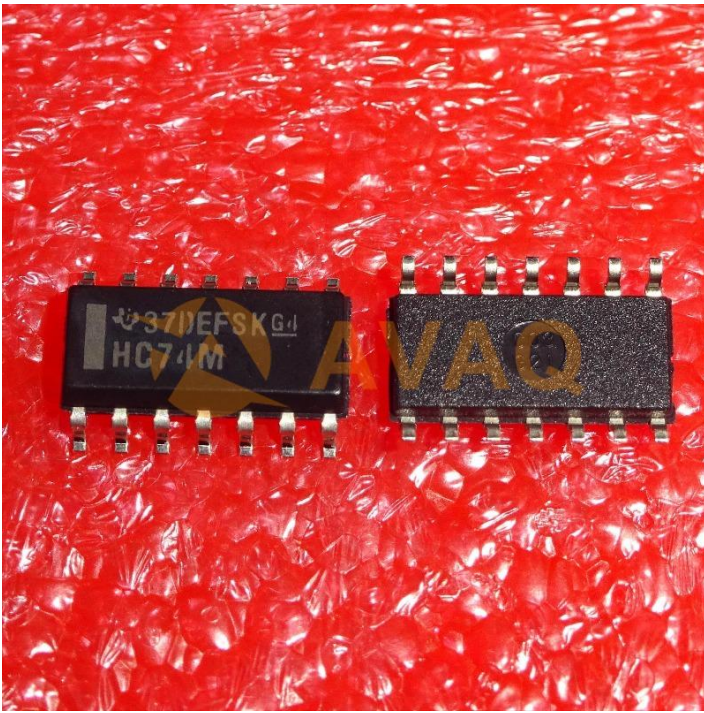
Data sheet acquired from Harris Semiconductor

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## Recommended For You

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### CD4070BE

Texas Instruments, Inc

DIP14

### CD74HCT138E

Texas Instruments, Inc

DIP16

### CD4098BE

Texas Instruments, Inc

DIP

### CD74HC08E

Texas Instruments, Inc

DIP

### CD74HC4075E

Texas Instruments, Inc

DIP

### CD74ACT74E

Texas Instruments, Inc

DIP-14

### CD74HC75E

Texas Instruments, Inc

DIP

### CD4504BE

Texas Instruments, Inc

DIP16

### CD4068BE

Texas Instruments, Inc

DIP

### CD4081BE

Texas Instruments, Inc

DIP14

### CD4001BE

Texas Instruments, Inc

DIP14

### CD4512BE

Texas Instruments, Inc

DIP16

### CD4069UBE

Texas Instruments, Inc

DIP14

### CD74HCT151E

Texas Instruments, Inc

DIP

### CD74HC04M

Texas Instruments, Inc

SOP14