# 74HC107; 74HCT107

Dual JK flip-flop with reset; negative-edge trigger

Rev. 5 — 30 November 2015

Proc

**Product data sheet** 

#### 1. **General description**

The 74HC107; 74HCT107 is a dual negative edge triggered JK flip-flop featuring individual J and K inputs, clock (CP) and reset (R) inputs and complementary Q and Q outputs. The reset is an asynchronous active LOW input and operates independently of the clock input. The J and K inputs control the state changes of the flip-flops as described in the mode select function table. The J and K inputs must be stable one set-up time prior to the HIGH-to-LOW clock transition for predictable operation. Inputs include clamp diodes that enable the use of current limiting resistors to interface inputs to voltages in excess of V<sub>CC</sub>.

### Features and benefits

- Complies with JEDEC standard no. 7A
- Input levels:
  - The 74HC107: CMOS levels
  - ◆ The 74HCT107: TTL levels
- ESD protection:
  - HBM JESD22-A114F exceeds 2000 V
  - MM JESD22-A115-A exceeds 200 V
- Multiple package options
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C

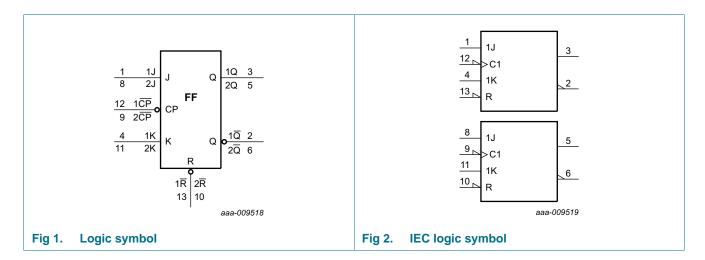
#### **Ordering information** 3.

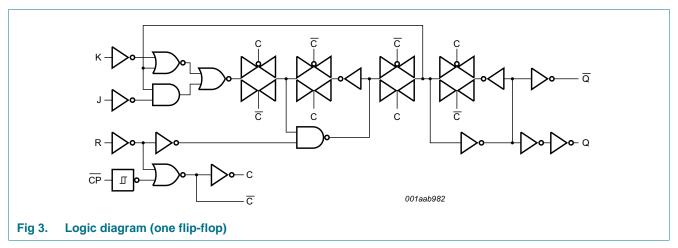
Table 1. **Ordering information** 

Type number	Package									
	Temperature range	Name	Description	Version						
74HC107D	-40 °C to +125 °C	SO14	plastic small outline package; 14 leads; body width	SOT108-1						
74HCT107D			3.9 mm							
74HC107DB	–40 °C to +125 °C	SSOP14	plastic shrink small outline package; 14 leads; body width 5.3 mm	SOT337-1						
74HC107PW	-40 °C to +125 °C	TSSOP14	plastic thin shrink small outline package; 14 leads; body width 4.4 mm	SOT402-1						



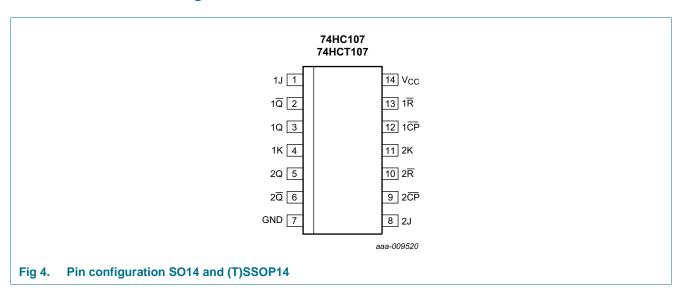
### 4. Functional diagram





### 5. Pinning information

### 5.1 Pinning



### 5.2 Pin description

Table 2. Pin description

Symbol	Pin	Description
1J, 2J	1, 8	synchronous J input
1Q, 2Q	2, 6	complement output
1Q, 2Q	3, 5	true output
1K, 2K	4, 11	synchronous K input
1CP, 2CP	12, 9	clock input (HIGH-to-LOW edge-triggered)
1R, 2R	13, 10	asynchronous reset input (active LOW)
GND	7	ground (0 V)
V <sub>CC</sub>	14	supply voltage

### 6. Functional description

Table 3. Function table[1]

Input			Output		Operating mode	
R	СР	J	K	Q	Q	
L	Х	X	Х	L	Н	asynchronous reset
Н	<b>\</b>	h	h	q	q	toggle
Н	<b>\</b>	I	h	L	Н	load 0 (reset)
Н	<b>\</b>	h	I	Н	L	load 1 (set)
Н	<b>\</b>	I	I	q	q	hold (no change)

<sup>[1]</sup> H = HIGH voltage level;

h = HIGH voltage level one set-up time prior to the HIGH-to-LOW clock transition;

### 7. Limiting values

Table 4. Limiting values

In accordance with the Absolute Maximum Rating System (IEC 60134). Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions		Min	Max	Unit
$V_{CC}$	supply voltage			-0.5	+7.0	V
I <sub>IK</sub>	input clamping current	$V_{I} < -0.5 \text{ V or } V_{I} > V_{CC} + 0.5 \text{ V}$	<u>[1]</u>	-	±20	mA
I <sub>OK</sub>	output clamping current	$V_{O} < -0.5 \text{ V or } V_{O} > V_{CC} + 0.5 \text{ V}$	<u>[1]</u>	-	±20	mA
I <sub>O</sub>	output current	$V_{O} = -0.5 \text{ V to } V_{CC} + 0.5 \text{ V}$		-	±25	mA
I <sub>CC</sub>	supply current			-	50	mA
I <sub>GND</sub>	ground current			-50	-	mA
T <sub>stg</sub>	storage temperature			-65	+150	°C
P <sub>tot</sub>	total power dissipation	$T_{amb} = -40  ^{\circ}\text{C} \text{ to } +125  ^{\circ}\text{C}$				
		SO14 package	[2]	-	500	mW
		(T)SSOP14 package	<u>[3]</u>	-	500	mW

<sup>[1]</sup> The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

L = LOW voltage level;

I = LOW voltage level one set-up time prior to the HIGH-to-LOW clock transition;

q = state of referenced output one set-up time prior to the HIGH-to-LOW clock transition;

X = don't care;

 $<sup>\</sup>downarrow$  = HIGH-to-LOW clock transition.

<sup>[2]</sup> Ptot derates linearly with 8 mW/K above 70 °C.

<sup>[3]</sup> P<sub>tot</sub> derates linearly with 5.5 mW/K above 60 °C.

### 8. Recommended operating conditions

Table 5. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V)

Symbol	Parameter	Conditions	74HC107			7	7	Unit	
			Min	Тур	Max	Min	Тур	Max	
V <sub>CC</sub>	supply voltage		2.0	5.0	6.0	4.5	5.0	5.5	V
VI	input voltage		0	-	V <sub>CC</sub>	0	-	V <sub>CC</sub>	V
Vo	output voltage		0	-	V <sub>CC</sub>	0	-	V <sub>CC</sub>	V
T <sub>amb</sub>	ambient temperature		-40	+25	+125	-40	+25	+125	°C
Δt/ΔV	input transition rise and fall rate	V <sub>CC</sub> = 2.0 V	-	-	625	-	-	-	ns/V
		V <sub>CC</sub> = 4.5 V	-	1.67	139	-	1.67	139	ns/V
		$V_{CC} = 6.0 \text{ V}$	-	-	83	-	-	-	ns/V

### 9. Static characteristics

#### Table 6. Static characteristics

At recommended operating conditions; voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions		25 °C		-40 °C t	o +85 °C	–40 °C t	o +125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
74HC10	7									
V <sub>IH</sub>	HIGH-level	V <sub>CC</sub> = 2.0 V	1.5	1.2	-	1.5	-	1.5	-	V
inp	input voltage	V <sub>CC</sub> = 4.5 V	3.15	2.4	-	3.15	-	3.15	-	V
		V <sub>CC</sub> = 6.0 V	4.2	3.2	-	4.2	-	4.2	-	V
V <sub>IL</sub>	LOW-level	V <sub>CC</sub> = 2.0 V	-	0.8	0.5	-	0.5	-	0.5	V
	input voltage	V <sub>CC</sub> = 4.5 V	-	2.1	1.35	-	1.35	-	1.35	V
		V <sub>CC</sub> = 6.0 V	-	2.8	1.8	-	1.8	-	1.8	V
V <sub>OH</sub>	HIGH-level	$V_I = V_{IH}$ or $V_{IL}$								
	output voltage	$I_{O} = -20 \mu A; V_{CC} = 2.0 V$	1.9	2.0	-	1.9	-	1.9	-	V
		$I_{O} = -20 \mu A; V_{CC} = 4.5 V$	4.4	4.5	-	4.4	-	4.4	-	V
		$I_{O} = -20 \mu A; V_{CC} = 6.0 V$	5.9	6.0	-	5.9	-	5.9	-	V
		$I_{O} = -4.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.98	4.32	-	3.84	-	3.7	-	V
		$I_{O} = -5.2 \text{ mA}; V_{CC} = 6.0 \text{ V}$	5.48	5.81	-	5.34	-	5.2	-	V
V <sub>OL</sub>	LOW-level	$V_I = V_{IH}$ or $V_{IL}$								
	output voltage	$I_O = 20 \mu A; V_{CC} = 2.0 \text{ V}$	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 20 \mu A; V_{CC} = 4.5 V$	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 20 \mu A; V_{CC} = 6.0 \text{ V}$	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 4.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	0.15	0.26	-	0.33	-	0.4	V
		$I_{O} = 5.2 \text{ mA}; V_{CC} = 6.0 \text{ V}$	-	0.16	0.26	-	0.33	-	0.4	V
I <sub>I</sub>	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 6.0 \text{ V}$	-	-	±0.1	-	±1.0	-	±1.0	μА
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 6.0 \text{ V}$	-	-	4.0	-	40	-	80	μΑ

 Table 6.
 Static characteristics ...continued

At recommended operating conditions; voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions		25 °C		–40 °C t	o +85 °C	–40 °C t	o +125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	1
Cı	input capacitance		-	3.5	-					pF
74HCT10	07			1	1					.1
V <sub>IH</sub>	HIGH-level input voltage	V <sub>CC</sub> = 4.5 V to 5.5 V	2.0	1.6	-	2.0	-	2.0	-	V
V <sub>IL</sub>	LOW-level input voltage	V <sub>CC</sub> = 4.5 V to 5.5 V	-	1.2	0.8	-	0.8	-	0.8	V
V <sub>OH</sub>	HIGH-level	$V_I = V_{IH}$ or $V_{IL}$ ; $V_{CC} = 4.5 \text{ V}$								
	output voltage	$I_{O} = -20 \mu A$	4.4	4.5	-	4.4	-	4.4	-	V
		$I_O = -4 \text{ mA}$	3.98	4.32	-	3.84	-	3.7	-	V
V <sub>OL</sub>	LOW-level	$V_I = V_{IH}$ or $V_{IL}$ ; $V_{CC} = 4.5 \text{ V}$								
	output voltage	$I_{O} = 20 \mu A$	-	0	0.1	-	0.1	-	0.1	V
		$I_{O} = 4.0 \text{ mA}$	-	0.16	0.26	-	0.33	-	0.4	V
I <sub>I</sub>	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$	-	-	±0.1	-	±1.0	-	±1.0	μΑ
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5$ V	-	-	4.0	-	40	-	80	μА
Δl <sub>CC</sub>	additional supply current	per input pin; $V_{I} = V_{CC} - 2.1 \text{ V; } I_{O} = 0 \text{ A;}$ other inputs at $V_{CC}$ or GND; $V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$								
		pin n <del>CP</del> , nJ	-	100	360	-	450	-	490	μΑ
		pin nR	-	65	234	-	293	-	319	μΑ
		pin nK	-	60	216	-	270	-	294	μΑ
Cı	input capacitance		-	3.5	-	-	-	-	-	pF

### 10. Dynamic characteristics

Table 7. Dynamic characteristics

GND (ground = 0 V);  $C_L = 50 \text{ pF}$  unless otherwise specified; for test circuit, see Figure 7

Symbol	Parameter	Conditions		25 °C		-40 °C to	o +85 °C	-40 °C to +125 °C		Unit
			Min	Тур	Max	Min	Max	Min	Max	
74HC107	7					I	1	I		
t <sub>pd</sub>	propagation	nCP to nQ; see Figure 5	1]							
	delay	V <sub>CC</sub> = 2.0 V	-	52	160	-	200	-	240	ns
		V <sub>CC</sub> = 4.5 V	-	19	32	-	40	-	48	ns
		$V_{CC} = 5.0 \text{ V}; C_L = 15 \text{ pF}$	-	16	-	-	-	-	-	ns
		V <sub>CC</sub> = 6.0 V	-	15	27	-	34	-	41	ns
		nCP to nQ; see Figure 5								
		V <sub>CC</sub> = 2.0 V	-	52	160	-	200	-	240	ns
		V <sub>CC</sub> = 4.5 V	-	19	32	-	40	-	48	ns
		$V_{CC} = 5.0 \text{ V}; C_L = 15 \text{ pF}$	-	16	-	-	-	-	-	ns
		V <sub>CC</sub> = 6.0 V	-	15	27	-	34	-	41	ns
		nR to nQ, nQ; see Figure 6								
		V <sub>CC</sub> = 2.0 V	-	52	155	-	195	-	235	ns
		V <sub>CC</sub> = 4.5 V	-	19	31	-	39	-	47	ns
		$V_{CC} = 5.0 \text{ V}; C_L = 15 \text{ pF}$	-	16	-	-	-	-	-	ns
		V <sub>CC</sub> = 6.0 V	-	15	26	-	33	-	40	ns
t <sub>t</sub>	transition time	nQ, nQ; see Figure 5	2]							
		V <sub>CC</sub> = 2.0 V	-	19	75	-	95	-	110	ns
		V <sub>CC</sub> = 4.5 V	-	7	15	-	19	-	22	ns
		V <sub>CC</sub> = 6.0 V	-	6	13	-	16	-	19	ns
t <sub>W</sub>	pulse width	nCP input, HIGH or LOW; see Figure 5								
		V <sub>CC</sub> = 2.0 V	80	22	-	100	-	120	-	ns
		V <sub>CC</sub> = 4.5 V	16	8	-	20	-	24	-	ns
		V <sub>CC</sub> = 6.0 V	14	6	-	17	-	20	-	ns
		nR input, HIGH or LOW; see Figure 6								
		V <sub>CC</sub> = 2.0 V	80	22	-	100	-	120	-	ns
		V <sub>CC</sub> = 4.5 V	16	8	-	20	-	24	-	ns
		V <sub>CC</sub> = 6.0 V	14	6	-	17	-	20	-	ns
t <sub>rec</sub>	recovery time	nR to nCP; see Figure 6								
		V <sub>CC</sub> = 2.0 V	60	19	-	75	-	90	-	ns
		V <sub>CC</sub> = 4.5 V	12	7	-	15	-	18	-	ns
		V <sub>CC</sub> = 6.0 V	20	6	-	13	-	15	-	ns
t <sub>su</sub>	set-up time	nJ, nK to nCP; see Figure 5								
		V <sub>CC</sub> = 2.0 V	100	22	-	125	-	150	-	ns
		V <sub>CC</sub> = 4.5 V	20	8	-	25	-	30	-	ns
		V <sub>CC</sub> = 6.0 V	17	6	-	21	-	26	-	ns

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 Table 7.
 Dynamic characteristics ...continued

GND (ground = 0 V);  $C_L = 50 \text{ pF}$  unless otherwise specified; for test circuit, see Figure 7

Symbol	Parameter	Conditions		25 °C		–40 °C to	o +85 °C	-40 °C to	+125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
t <sub>h</sub>	hold time	nJ, nK to nCP; see Figure 5								
		V <sub>CC</sub> = 2.0 V	3	-6	-	3	-	3	-	ns
		V <sub>CC</sub> = 4.5 V	3	-2	-	3	-	3	-	ns
		V <sub>CC</sub> = 6.0 V	3	-2	-	3	-	3	-	ns
f <sub>max</sub>	maximum	nCP input; see Figure 5								
	frequency	V <sub>CC</sub> = 2.0 V	6	23	-	4.8	-	4.0	-	MHz
		V <sub>CC</sub> = 4.5 V	30	70	-	24	-	20	-	MHz
		$V_{CC} = 5.0 \text{ V}; C_L = 15 \text{ pF}$	-	78	-	-	-	-	-	MHz
		V <sub>CC</sub> = 6.0 V	35	85	-	28	-	24	-	MHz
C <sub>PD</sub>	power dissipation capacitance	per flip-flop; [3] $V_I = GND$ to $V_{CC}$	-	30	-	-	-	-	-	pF
74HCT10	)7									
t <sub>pd</sub>	propagation	nCP to nQ; see Figure 5								
	delay	V <sub>CC</sub> = 4.5 V	-	19	36	-	45	-	54	ns
		$V_{CC} = 5.0 \text{ V}; C_L = 15 \text{ pF}$	-	16	-	-	-	-	-	ns
		nCP to nQ; see Figure 5								
		V <sub>CC</sub> = 4.5 V	-	21	36	-	45	-	54	ns
		V <sub>CC</sub> = 5.0 V; C <sub>L</sub> = 15 pF	-	18	-	-	-	-	-	ns
		nR to nQ, nQ; see Figure 6								
		V <sub>CC</sub> = 4.5 V	-	20	38	-	48	-	57	ns
		$V_{CC} = 5.0 \text{ V}; C_L = 15 \text{ pF}$	-	17	-	-	-	-	-	ns
t <sub>t</sub>	transition time	$nQ, n\overline{Q}; see \underline{Figure 5}$								
		V <sub>CC</sub> = 4.5 V	-	7	15	-	19	-	22	ns
t <sub>W</sub>	pulse width	nCP input, HIGH or LOW; see Figure 5								
		V <sub>CC</sub> = 4.5 V	16	9	-	20	-	24	-	ns
		nR input, HIGH or LOW; see Figure 6								
		V <sub>CC</sub> = 4.5 V	20	11	-	25	-	30	-	ns
t <sub>rec</sub>	recovery time	nR to nCP; see Figure 6								
		V <sub>CC</sub> = 4.5 V	14	8	-	18	-	21	-	ns
t <sub>su</sub>	set-up time	nJ, nK to nCP; see Figure 5								
	V <sub>CC</sub> = 4.5 V		20	7	-	25	-	30	-	ns
t <sub>h</sub>	hold time	nJ, nK to nCP; see Figure 5								
		V <sub>CC</sub> = 4.5 V	5	-2	-	5	-	5	-	ns

Table 7. Dynamic characteristics ...continued

GND (ground = 0 V); C<sub>L</sub> = 50 pF unless otherwise specified; for test circuit, see Figure 7

Symbol	Parameter	Conditions	25 °C		–40 °C to	+85 °C	-40 °C to	Unit		
			Min	Тур	Max	Min	Max	Min	Max	
f <sub>max</sub>	maximum	nCP input; see Figure 5								
	frequency	V <sub>CC</sub> = 4.5 V	30	66	-	24	-	20	-	MHz
		$V_{CC} = 5.0 \text{ V}; C_L = 15 \text{ pF}$	-	73	-	-	-	-	-	MHz
C <sub>PD</sub>	power dissipation capacitance	per flip-flop; [3] $V_I = GND \text{ to } V_{CC} - 1.5 \text{ V}$	-	30	-	-	-	-	-	pF

- [1] t<sub>pd</sub> is the same as t<sub>PHL</sub>, t<sub>PLH</sub>.
- [2]  $t_t$  is the same as  $t_{THL}$ ,  $t_{TLH}$ .
- [3]  $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu W$ ).

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

 $f_i$  = input frequency in MHz;

f<sub>o</sub> = output frequency in MHz;

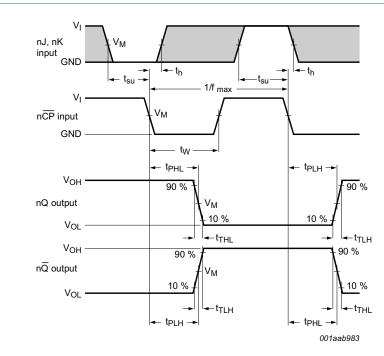
C<sub>L</sub> = output load capacitance in pF;

V<sub>CC</sub> = supply voltage in V;

N = number of inputs switching;

 $\sum (C_L \times V_{CC}^2 \times f_0) = \text{sum of outputs.}$ 

### 11. Waveforms



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

Measurement points are given in Table 8.

 $V_{\text{OL}}$  and  $V_{\text{OH}}$  are typical voltage output levels that occur with the output load.

Fig 5. Clock propagation delays, pulse width, set-up and hold times, output transition times and the maximum frequency

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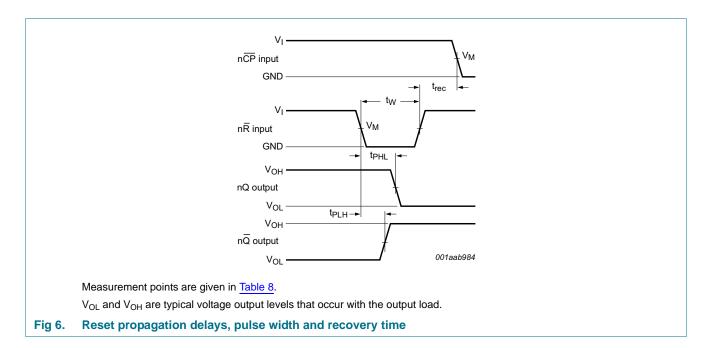
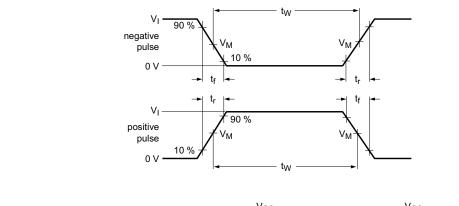
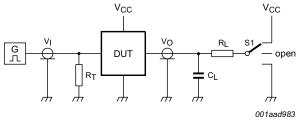


Table 8. Measurement points

Туре	Input		Output
	V <sub>I</sub>	V <sub>M</sub>	V <sub>M</sub>
74HC107	V <sub>CC</sub>	0.5V <sub>CC</sub>	0.5V <sub>CC</sub>
74HCT107	3 V	1.3 V	1.3 V





Test data is given in Table 9.

Definitions test circuit:

 $R_T$  = Termination resistance should be equal to output impedance  $Z_o$  of the pulse generator.

 $C_L$  = Load capacitance including jig and probe capacitance.

 $R_L$  = Load resistance.

S1 = Test selection switch.

Fig 7. Test circuit for measuring switching times

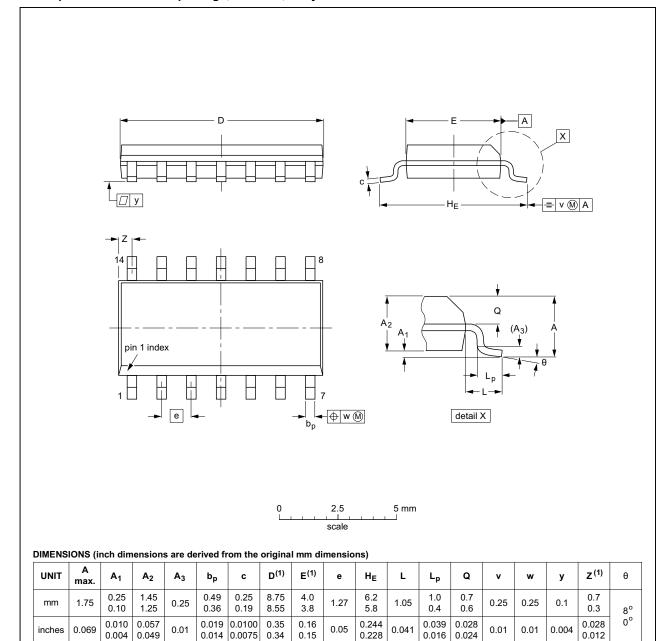
Table 9. Test data

Туре	Input		Load		S1 position			
	VI	t <sub>r</sub> , t <sub>f</sub>	C <sub>L</sub> R <sub>L</sub>		t <sub>PHL</sub> , t <sub>PLH</sub>	t <sub>PZH</sub> , t <sub>PHZ</sub>	t <sub>PZL</sub> , t <sub>PLZ</sub>	
74HC107	V <sub>CC</sub>	6 ns	15 pF, 50 pF	1 kΩ	open	GND	V <sub>CC</sub>	
74HCT107	3 V	6 ns	15 pF, 50 pF	1 kΩ	open	GND	V <sub>CC</sub>	

### 12. Package outline

SO14: plastic small outline package; 14 leads; body width 3.9 mm

SOT108-1



#### Note

1. Plastic or metal protrusions of 0.15 mm (0.006 inch) maximum per side are not included.

OUTLINE		REFER	EUROPEAN	ISSUE DATE			
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE	
SOT108-1	076E06	MS-012				<del>99-12-27</del> 03-02-19	

Fig 8. Package outline SOT108-1 (SO14)

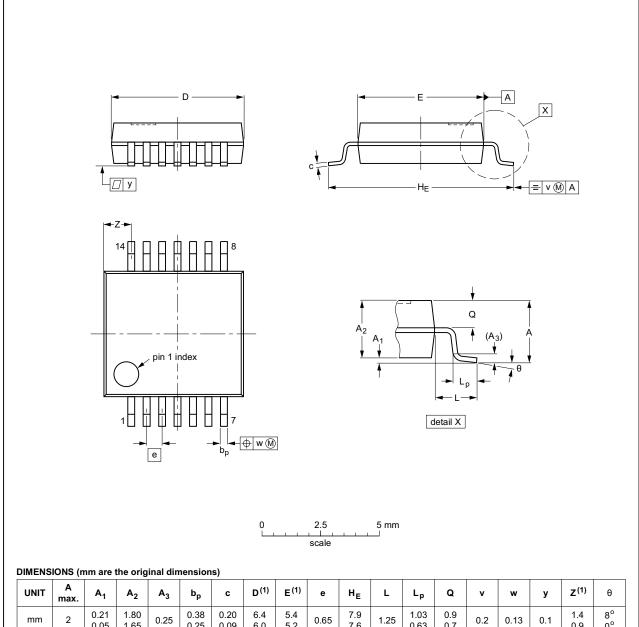
74HC\_HCT107

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SSOP14: plastic shrink small outline package; 14 leads; body width 5.3 mm

SOT337-1



UNIT	A max.	A <sub>1</sub>	A <sub>2</sub>	<b>A</b> <sub>3</sub>	b <sub>p</sub>	C	D <sup>(1)</sup>	E <sup>(1)</sup>	е	HE	L	Lp	Q	v	w	у	Z <sup>(1)</sup>	θ
mm	2	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	1.4 0.9	8° 0°

#### Note

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

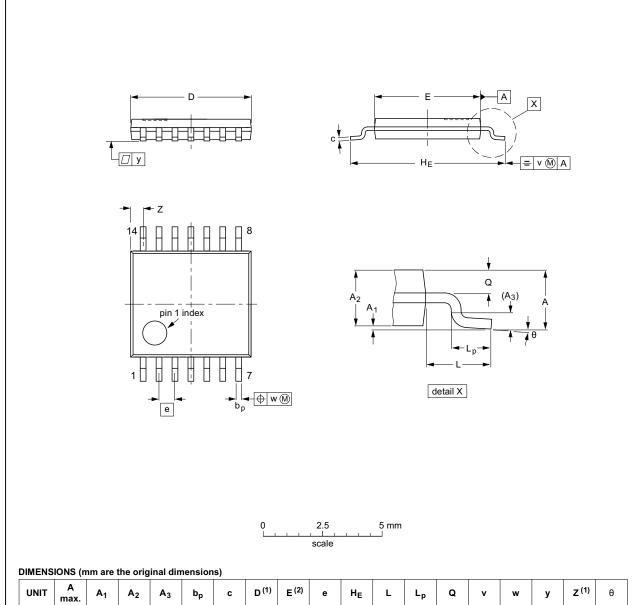
OUTLINE		REFER	EUROPEAN	ISSUE DATE			
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE	
SOT337-1		MO-150				<del>99-12-27</del> 03-02-19	

Package outline SOT337-1 (SSOP14)

74HC\_HCT107

TSSOP14: plastic thin shrink small outline package; 14 leads; body width 4.4 mm

SOT402-1



UNIT	A max.	A <sub>1</sub>	A <sub>2</sub>	<b>A</b> <sub>3</sub>	bp	С	D <sup>(1)</sup>	E (2)	е	HE	L	Lp	Q	٧	w	у	Z <sup>(1)</sup>	θ
mm	1.1	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	0.75 0.50	0.4 0.3	0.2	0.13	0.1	0.72 0.38	8° 0°

#### 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.

JEITA	PROJECTION	ISSUE DATE
021171	PROJECTION	
		<del>99-12-27</del> 03-02-18

Fig 10. Package outline SOT402-1 (TSSOP14)

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### 13. Abbreviations

#### Table 10. Abbreviations

Acronym	Description
CMOS	Complementary Metal-Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
НВМ	Human Body Model
MM	Machine Model
TTL	Transistor-Transistor Logic

## 14. Revision history

### Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes				
74HC_HCT107 v.5	20151130	Product data sheet	-	74HC_HCT107 v.4				
Modifications:	Type numbers	s 74HC107N and 74HCT107N	(SOT27-1) removed	d.				
74HC_HCT107 v.4	20150126	Product data sheet	-	74HC_HCT107 v.3				
Modifications:	<u>Table 7</u> : Power dissipation capacitance condition for 74HCT107 is corrected.							
74HC_HCT107 v.3	20131118	Product data sheet	-	74HC_HCT107_CNV v.2				
Modifications:	<ul> <li>The format of this data sheet has been redesigned to comply with the new identity guidelines of NXP Semiconductors.</li> </ul>							
	<ul> <li>Legal texts have</li> </ul>	ave been adapted to the new c	ompany name where	e appropriate.				
74HC_HCT107_CNV v.2	19901201	Product specification	-	-				

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Document status[1][2]	Product status[3]	Definition
Objective [short] data sheet	Development	This document contains data from the objective specification for product development.
Preliminary [short] data sheet	Qualification	This document contains data from the preliminary specification.
Product [short] data sheet	Production	This document contains the product specification.

- [1] Please consult the most recently issued document before initiating or completing a design.
- [2] The term 'short data sheet' is explained in section "Definitions"
- [3] The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the Internet at URL http://www.nexperia.com.

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74HC\_HCT107

## 74HC107; 74HCT107

### Dual JK flip-flop with reset; negative-edge trigger

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# 74HC107; 74HCT107

### **Nexperia**

Dual JK flip-flop with reset; negative-edge trigger

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