## 74HC2G17-Q100; 74HCT2G17-Q100

## **Dual non-inverting Schmitt trigger**

Rev. 1 — 22 May 2013

**Product data sheet** 

### 1. General description

The 74HC2G17-Q100; 74HCT2G17-Q100 are dual buffers with Schmitt-trigger inputs. Inputs include clamp diodes. This enables the use of current limiting resistors to interface inputs to voltages in excess of  $V_{CC}$ . Schmitt trigger inputs transform slowly changing input signals into sharply defined jitter-free output signals.

This product has been qualified to the Automotive Electronics Council (AEC) standard Q100 (Grade 1) and is suitable for use in automotive applications.

#### 2. Features and benefits

- Automotive product qualification in accordance with AEC-Q100 (Grade 1)
  - ◆ Specified from -40 °C to +85 °C and from -40 °C to +125 °C
- Input levels:
  - ♦ For 74HC2G17-Q100: CMOS level
  - ◆ For 74HCT2G17-Q100: TTL level
- Complies with JEDEC standard no. 7A
- High noise immunity
- ESD protection:
  - MIL-STD-883, method 3015 exceeds 2000 V
  - ◆ HBM JESD22-A114F exceeds 2000 V
  - ♦ MM JESD22-A115-A exceeds 200 V (C = 200 pF, R = 0 Ω)
- Low power dissipation
- Balanced propagation delays
- Unlimited input rise and fall times
- Multiple package options

### 3. Applications

- Wave and pulse shaper for highly noisy environments
- Astable multivibrators
- Monostable multivibrators



### 4. Ordering information

Table 1. Ordering information

Type number	Package	ckage							
	Temperature range	Name	Description	Version					
74HC2G17GW-Q100	–40 °C to +125 °C	SC-88	plastic surface-mounted package; 6 leads	SOT363					
74HC2G17GV-Q100	–40 °C to +125 °C	SC-74	plastic surface-mounted package (TSOP6); 6 leads	SOT457					
74HCT2G17GW-Q100	–40 °C to +125 °C	SC-88	plastic surface-mounted package; 6 leads	SOT363					
74HCT2G17GV-Q100	–40 °C to +125 °C	SC-74	plastic surface-mounted package (TSOP6); 6 leads	SOT457					

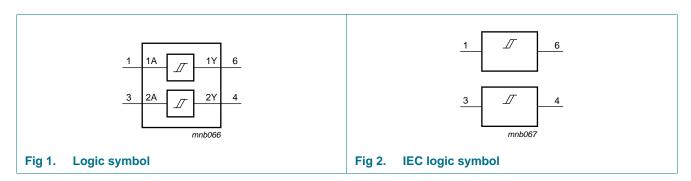
### 5. Marking

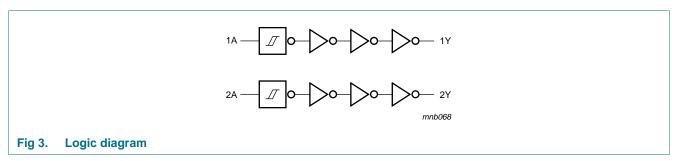
#### Table 2. Marking

Type number	Marking code <sup>[1]</sup>
74HC2G17GW-Q100	HV
74HC2G17GV-Q100	HV
74HCT2G17GW-Q100	TV
74HCT2G17GV-Q100	TV

<sup>[1]</sup> The pin 1 indicator is located on the lower left corner of the device, below the marking code.

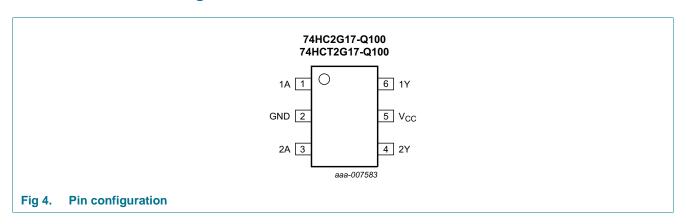
### 6. Functional diagram





### 7. Pinning information

### 7.1 Pinning



### 7.2 Pin description

Table 3. Pin description

Symbol	Pin	Description
1A	1	data input
GND	2	ground (0 V)
2A	3	data input
2Y	4	data output
V <sub>CC</sub>	5	supply voltage
1Y	6	data output

### 8. Functional description

Table 4. Function table[1]

Input	Output
nA	nY
L	L
H	Н

[1] H = HIGH voltage level;

L = LOW voltage level.

### 9. Limiting values

Table 5. 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	$V_O = -0.5 \text{ V to } V_{CC} + 0.5 \text{ V}$	<u>[1]</u> _	±25	mA
I <sub>CC</sub>	supply current		<u>[1]</u> _	50	mA
I <sub>GND</sub>	ground current		<u>[1]</u> _	-50	mA
T <sub>stg</sub>	storage temperature		-65	+150	°C
P <sub>tot</sub>	total power dissipation		[2] _	250	mW

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

### 10. Recommended operating conditions

Table 6. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
74HC2G17-	Q100					
$V_{CC}$	supply voltage		2.0	5.0	6.0	V
VI	input voltage		0	-	$V_{CC}$	V
Vo	output voltage		0	-	$V_{CC}$	V
T <sub>amb</sub>	ambient temperature		-40	+25	+125	°C
74HCT2G17	7-Q100					
V <sub>CC</sub>	supply voltage		4.5	5.0	5.5	V
VI	input voltage		0	-	$V_{CC}$	V
Vo	output voltage		0	-	$V_{CC}$	V
T <sub>amb</sub>	ambient temperature		-40	+25	+125	°C

#### 11. Static characteristics

Table 7. Static characteristics for 74HC2G17

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

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T <sub>amb</sub> = 25	°C					
V <sub>OH</sub>	HIGH-level output voltage	$V_I = V_{T+}$ or $V_{T-}$				
		$I_{O} = -20 \mu A; V_{CC} = 2.0 V$	1.9	2.0	-	V
		$I_{O} = -20 \mu A; V_{CC} = 4.5 V$	4.4	4.5	-	V
		$I_{O} = -20 \mu A; V_{CC} = 6.0 V$	5.9	6.0	-	V
		$I_{O} = -4.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	4.18	4.32	-	V
		$I_{O} = -5.2 \text{ mA}; V_{CC} = 6.0 \text{ V}$	5.68	5.81	-	V

74HC\_HCT2G17\_Q100

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<sup>[2]</sup> For SC-88 and SC-74 packages: above 87.5 °C the value of Ptot derates linearly with 4.0 mW/K.

 Table 7.
 Static characteristics for 74HC2G17 ...continued

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

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
$V_{OL}$	LOW-level output voltage	$V_I = V_{T+}$ or $V_{T-}$				
		$I_O = 20 \mu A; V_{CC} = 2.0 V$	-	0	0.1	V
		$I_O = 20 \mu A; V_{CC} = 4.5 V$	-	0	0.1	V
		$I_O = 20 \mu A; V_{CC} = 6.0 V$	-	0	0.1	V
		$I_{O} = 4.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	0.15	0.26	V
		$I_{O} = 5.2 \text{ mA}; V_{CC} = 6.0 \text{ V}$	-	0.16	0.26	V
l <sub>l</sub>	input leakage current	$V_I = GND \text{ or } V_{CC}; V_{CC} = 6.0 \text{ V}$	-	-	±0.1	μΑ
I <sub>CC</sub>	supply current	$V_I = GND \text{ or } V_{CC}; I_O = 0 \text{ A};$ $V_{CC} = 6.0 \text{ V}$	-	-	1.0	μΑ
Cı	input capacitance		-	2.0	-	pF
T <sub>amb</sub> = -40	) °C to +85 °C					
V <sub>OH</sub>	HIGH-level output voltage	$V_I = V_{T+}$ or $V_{T-}$				
0		$I_{O} = -20 \mu A$ ; $V_{CC} = 2.0 V$	1.9	-	-	V
		$I_{O} = -20 \mu A$ ; $V_{CC} = 4.5 V$	4.4	-	-	V
		$I_O = -20 \mu A$ ; $V_{CC} = 6.0 V$	5.9	-	-	V
		$I_{O} = -4.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	4.13	-	-	V
		$I_{O} = -5.2 \text{ mA}; V_{CC} = 6.0 \text{ V}$	5.63	-	-	V
$V_{OL}$	LOW-level output voltage	$V_I = V_{T+}$ or $V_{T-}$				
		$I_O = 20 \mu A; V_{CC} = 2.0 V$	-	-	0.1	V
		$I_O = 20 \mu A; V_{CC} = 4.5 V$	-	-	0.1	V
		$I_O = 20 \mu A; V_{CC} = 6.0 V$	-	-	0.1	V
		$I_{O} = 4.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	-	0.33	V
		$I_{O} = 5.2 \text{ mA}; V_{CC} = 6.0 \text{ V}$	-	-	0.33	V
l <sub>l</sub>	input leakage current	$V_I = GND \text{ or } V_{CC}; V_{CC} = 6.0 \text{ V}$	-	-	±1.0	μΑ
I <sub>CC</sub>	supply current	$V_I = GND \text{ or } V_{CC}; I_O = 0 \text{ A};$ $V_{CC} = 6.0 \text{ V}$	-	-	10.0	μΑ
T <sub>amb</sub> = -40	°C to +125 °C					
V <sub>OH</sub>	HIGH-level output voltage	$V_I = V_{T+}$ or $V_{T-}$				
		$I_{O} = -20 \mu A; V_{CC} = 2.0 V$	1.9	-	-	V
		$I_{O} = -20 \mu A; V_{CC} = 4.5 V$	4.4	-	-	V
		$I_{O} = -20 \mu A; V_{CC} = 6.0 V$	5.9	-	-	V
		$I_{O} = -4.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.7	-	-	V
		$I_{O} = -5.2 \text{ mA}; V_{CC} = 6.0 \text{ V}$	5.2	-	-	V

 Table 7.
 Static characteristics for 74HC2G17 ...continued

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

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
$V_{OL}$	LOW-level output voltage	$V_I = V_{T+}$ or $V_{T-}$				
		$I_O = 20 \mu A; V_{CC} = 2.0 V$	-	-	0.1	V
		$I_O = 20 \mu A; V_{CC} = 4.5 V$	-	-	0.1	V
		$I_O = 20 \mu A; V_{CC} = 6.0 V$	-	-	0.1	V
		$I_O = 4.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	-	0.4	V
		$I_{O} = 5.2 \text{ mA}; V_{CC} = 6.0 \text{ V}$	-	-	0.4	V
l <sub>l</sub>	input leakage current	$V_I = GND \text{ or } V_{CC}; V_{CC} = 6.0 \text{ V}$	-	-	±1.0	μΑ
I <sub>CC</sub>	supply current	$V_I = GND \text{ or } V_{CC}; I_O = 0 \text{ A};$ $V_{CC} = 6.0 \text{ V}$	-	-	20.0	μΑ

#### Table 8. Static characteristics for 74HCT2G17

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

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T <sub>amb</sub> = 25	°C					
$V_{OH}$	HIGH-level output voltage	$V_I = V_{T+}$ or $V_{T-}$ ; $V_{CC} = 4.5 \text{ V}$				
		$I_{O} = -20 \mu A$	4.4	4.5	-	V
		$I_{O} = -4.0 \text{ mA}$	4.18	4.32	-	V
$V_{OL}$	LOW-level output voltage	$V_I = V_{T+}$ or $V_{T-}$ ; $V_{CC} = 4.5 \text{ V}$				
		$I_{O} = -20 \mu A$	-	0	0.1	V
		$I_{O} = -4.0 \text{ mA}$	-	0.15	0.26	V
I <sub>I</sub>	input leakage current	$V_I = GND \text{ or } V_{CC}; V_{CC} = 5.5 \text{ V}$	-	-	±0.1	μΑ
I <sub>CC</sub>	supply current	$V_I = GND \text{ or } V_{CC}; I_O = 0 \text{ A};$ $V_{CC} = 5.5 \text{ V}$	-	-	1.0	μΑ
Δl <sub>CC</sub>	additional supply current	$V_I = V_{CC} - 2.1 \text{ V};$ $V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}; I_O = 0 \text{ A}$	-	-	300	μΑ
Cı	input capacitance		-	2.0	-	pF
$T_{amb} = -40$	°C to +85 °C					
$V_{OH}$	HIGH-level output voltage	$V_I = V_{T+}$ or $V_{T-}$ ; $V_{CC} = 4.5 \text{ V}$				
		$I_{O} = -20 \mu A$	4.4	-	-	V
		$I_{O} = -4.0 \text{ mA}$	4.13	-	-	V
$V_{OL}$	LOW-level output voltage	$V_I = V_{T+}$ or $V_{T-}$ ; $V_{CC} = 4.5 \text{ V}$				
		$I_{O} = -20 \mu A$	-	-	0.1	V
		$I_{O} = -4.0 \text{ mA}$	-	-	0.33	V
I <sub>I</sub>	input leakage current	$V_I = GND \text{ or } V_{CC}; V_{CC} = 5.5 \text{ V}$	-	-	±1.0	μΑ
Icc	supply current	$V_I = GND \text{ or } V_{CC}; I_O = 0 \text{ A};$ $V_{CC} = 5.5 \text{ V}$	-	-	10.0	μΑ
$\Delta I_{CC}$	additional supply current	$V_I = V_{CC} - 2.1 \text{ V};$ $V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}; I_O = 0 \text{ A}$	-	-	375	μА

Table 8. Static characteristics for 74HCT2G17 ...continued

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

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T <sub>amb</sub> = -40	) °C to +125 °C					
V <sub>OH</sub>	HIGH-level output voltage	$V_I = V_{T+}$ or $V_{T-}$ ; $V_{CC} = 4.5 \text{ V}$				
		$I_O = -20 \mu A$	4.4	-	-	V
		$I_{O} = -4.0 \text{ mA}$	3.7	-	-	V
$V_{OL}$	LOW-level output voltage	$V_I = V_{T+}$ or $V_{T-}$ ; $V_{CC} = 4.5 \text{ V}$				
		$I_{O} = -20 \mu A$	-	-	0.1	V
		$I_{O} = -4.0 \text{ mA}$	-	-	0.4	V
I	input leakage current	$V_I = GND \text{ or } V_{CC}; V_{CC} = 5.5 \text{ V}$	-	-	±1.0	μΑ
I <sub>CC</sub>	supply current	$V_I = GND \text{ or } V_{CC}; I_O = 0 \text{ A};$ $V_{CC} = 5.5 \text{ V}$	-	-	20.0	μΑ
$\Delta I_{CC}$	additional supply current	$V_I = V_{CC} - 2.1 \text{ V};$ $V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}; I_O = 0 \text{ A}$	-	-	410	μΑ

## 12. Dynamic characteristics

#### Table 9. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see Figure 6.

Symbol	Parameter	Conditions			25 °C		-40	0 °C to +1	25 °C	Unit
				Min	Тур	Max	Min	Max (85 °C)	Max (125 °C)	
74HC2G1	7-Q100									
t <sub>pd</sub>	propagation delay	nA to nY; see Figure 5	<u>[1]</u>							
		$V_{CC} = 2.0 \text{ V}; C_L = 50 \text{ pF}$		-	36	115	-	140	175	ns
		$V_{CC} = 4.5 \text{ V}; C_L = 50 \text{ pF}$		-	12	22	-	27	34	ns
		$V_{CC} = 6.0 \text{ V}; C_L = 50 \text{ pF}$		-	10	18	-	22	28	ns
t <sub>t</sub>	transition time	nY; see <u>Figure 5</u>	[2]							
		$V_{CC} = 2.0 \text{ V}; C_L = 50 \text{ pF}$		-	20	75	-	95	110	ns
		$V_{CC} = 4.5 \text{ V}; C_L = 50 \text{ pF}$		-	7	15	-	19	22	ns
		$V_{CC} = 6.0 \text{ V}; C_L = 50 \text{ pF}$		-	5	13	-	16	19	ns
$C_{PD}$	power dissipation capacitance	$V_I = GND \text{ to } V_{CC}$	[3]	-	10	-	-	-	-	pF

Table 9. Dynamic characteristics ...continued

Voltages are referenced to GND (ground = 0 V); for test circuit see Figure 6.

Symbol	Parameter	Conditions		25 °C			-40 °C to +125 °C			Unit
				Min	Тур	Max	Min	Max (85 °C)	Max (125 °C)	
74HCT2G	17-Q100									
t <sub>pd</sub>	propagation delay	nA to nY; see Figure 5	[1]							
		$V_{CC} = 4.5 \text{ V}; C_L = 50 \text{ pF}$		-	21	29	-	36	45	ns
t <sub>t</sub> transition time		nY; see Figure 5	[2]							
		$V_{CC} = 4.5 \text{ V}; C_L = 50 \text{ pF}$		-	6	15	-	19	22	ns
C <sub>PD</sub>	power dissipation capacitance	$V_I = GND \text{ to } V_{CC} - 1.5 \text{ V}$	[3]	-	10	-	-	-	-	pF

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

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

 $f_i$  = input frequency in MHz;

 $f_0$  = output frequency in MHz;

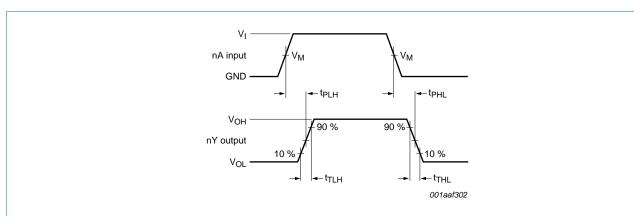
C<sub>L</sub> = output load capacitance in pF;

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

N = number of inputs switching;

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

#### 13. Waveforms



Measurement points are given in Table 10.

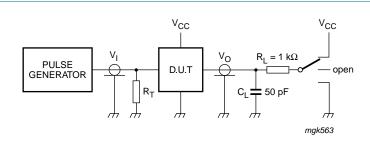
V<sub>OL</sub> and V<sub>OH</sub> are typical voltage output levels that occur with the output load.

Fig 5. The data input (nA) to output (nY) propagation delays and output transition times

Table 10. Measurement points

Туре	Input	Output		
	V <sub>M</sub>	V <sub>I</sub>	$t_r = t_f$	V <sub>M</sub>
74HC2G17-Q100	0.5V <sub>CC</sub>	GND to V <sub>CC</sub>	6.0 ns	0.5V <sub>CC</sub>
74HCT2G17-Q100	1.3 V	GND to 3.0 V	6.0 ns	1.3 V

74HC\_HCT2G17\_Q100



Test data is given in Table 11.

Definitions test circuit:

 $R_1$  = Load resistance.

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

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

#### Fig 6. Test circuit for measuring switching times

Table 11. Test data

Туре	Input	Test	
	VI	t <sub>r</sub> , t <sub>f</sub>	t <sub>PHL</sub> , t <sub>PLH</sub>
74HC2G17-Q100	GND to V <sub>CC</sub>	6 ns	open
74HCT2G17-Q100	GND to 3.0 V	6 ns	open

#### 14. Transfer characteristics

Table 12. Transfer characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see Figure 6.

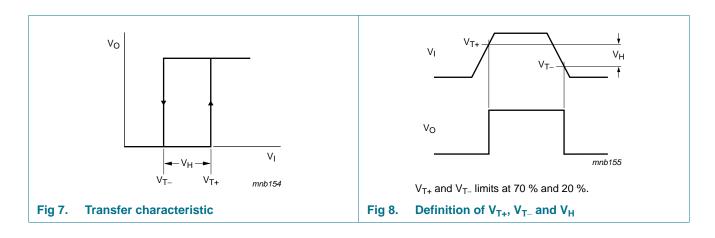
Symbol	Parameter	Conditions		25 °C —40 °C to +		0 °C to +1	25 °C	Unit	
			Min	Тур	Max	Min	Max (85 °C)	Max (125 °C)	
74HC2G	17-Q100								
$V_{T+}$	positive-going	see Figure 7, Figure 8							
	threshold voltage	$V_{CC} = 2.0 \text{ V}$	1.00	1.18	1.50	1.00	1.50	1.50	V
		$V_{CC} = 4.5 \text{ V}$	2.30	2.60	3.15	2.30	3.15	3.15	V
		$V_{CC} = 6.0 \text{ V}$	3.00	3.46	4.20	3.00	4.20	4.20	V
$V_{T-}$	negative-going threshold voltage	see Figure 7, Figure 8							
		$V_{CC} = 2.0 \text{ V}$	0.30	0.60	0.90	0.30	0.90	0.90	V
		$V_{CC} = 4.5 \text{ V}$	1.13	1.47	2.00	1.13	2.00	2.00	V
		$V_{CC} = 6.0 \text{ V}$	1.50	2.06	2.60	1.50	2.60	2.60	V
V <sub>H</sub> hy	hysteresis voltage	V <sub>T+</sub> – V <sub>T-</sub> ; see <u>Figure 7</u> , <u>Figure 8</u> and <u>Figure 9</u>							
		$V_{CC} = 2.0 \text{ V}$	0.30	0.60	1.00	0.30	1.00	1.00	V
		V <sub>CC</sub> = 4.5 V	0.60	1.13	1.40	0.60	1.40	1.40	V
		$V_{CC} = 6.0 \text{ V}$	0.80	1.40	1.70	0.80	1.70	1.70	V

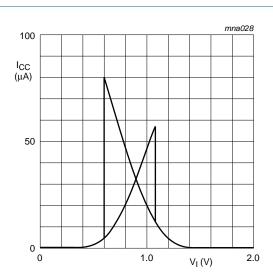
Table 12. Transfer characteristics ...continued

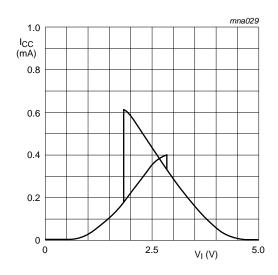
Voltages are referenced to GND (ground = 0 V); for test circuit see <u>Figure 6</u>.

Symbol	Parameter	Conditions		25 °C			-40 °C to +125 °C		
			Min	Тур	Max	Min	Max (85 °C)	Max (125 °C)	
74HCT20	G17-Q100								
$V_{T+}$	positive-going	see Figure 7 and Figure 8							
	threshold voltage	V <sub>CC</sub> = 4.5 V	1.20	1.58	1.90	1.20	1.90	1.90	V
		V <sub>CC</sub> = 5.5 V	1.40	1.78	2.10	1.40	2.10	2.10	V
$V_{T-}$	negative-going threshold voltage	see Figure 7 and Figure 8							
		V <sub>CC</sub> = 4.5 V	0.50	0.87	1.20	0.50	1.20	1.20	V
		V <sub>CC</sub> = 5.5 V	0.60	1.11	1.40	0.60	1.40	1.40	V
V <sub>H</sub> h	hysteresis voltage	V <sub>T+</sub> – V <sub>T-</sub> ; see <u>Figure 7</u> , <u>Figure 8</u> and <u>Figure 10</u>							
		$V_{CC} = 4.5 \text{ V}$	0.40	0.71	-	0.40	-	-	V
		V <sub>CC</sub> = 5.5 V	0.40	0.67	-	0.40	-	-	V

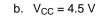
### 15. Waveforms transfer characteristics

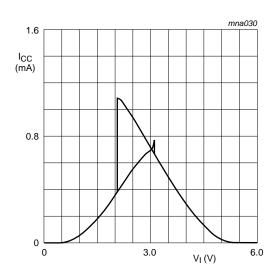






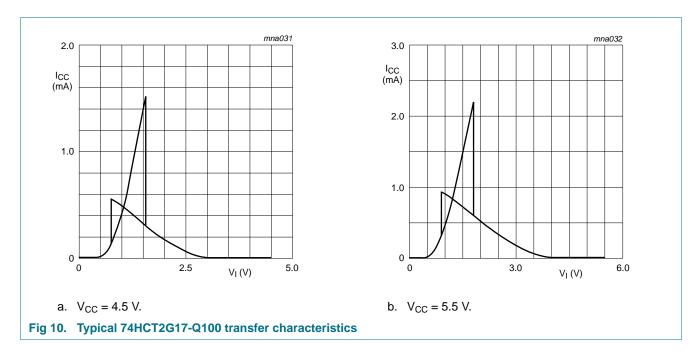
a.  $V_{CC} = 2.0 \text{ V}$ 





c.  $V_{CC} = 6.0 \text{ V}$ 

Fig 9. Typical 74HC2G17 transfer characteristics



### 16. Application information

The slow input rise and fall times cause additional power dissipation which can be calculated using the following formula:

 $P_{add} = f_i \times (t_r \times \Delta I_{CC(AV)} + t_f \times \Delta I_{CC(AV)}) \times V_{CC}$  where:

 $P_{add}$  = additional power dissipation ( $\mu$ W);

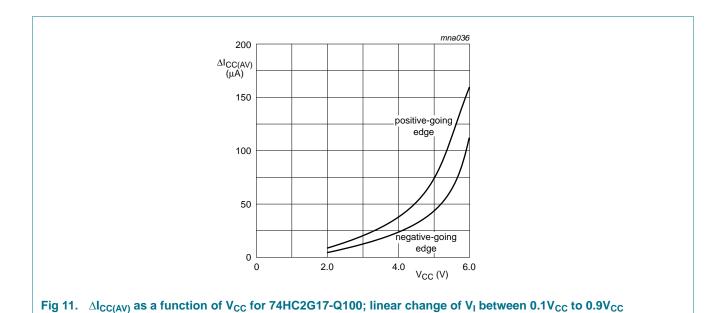
 $f_i = input frequency (MHz);$ 

 $t_r$  = input rise time (ns); 10 % to 90 %;

 $t_f$  = input fall time (ns); 90 % to 10 %;

 $\Delta I_{CC(AV)}$  = average additional supply current ( $\mu A$ ).

 $\Delta I_{CC(AV)}$  differs with positive or negative input transitions, as shown in <u>Figure 11</u> and <u>Figure 12</u>.



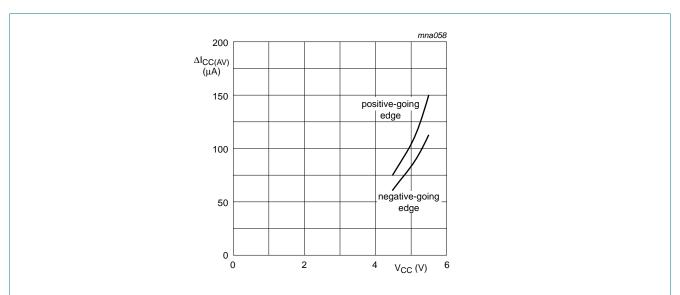


Fig 12.  $\Delta I_{CC(AV)}$  as a function of  $V_{CC}$  for 74HCT2G17-Q100; linear change of  $V_I$  between 0.1 $V_{CC}$  to 0.9 $V_{CC}$ 

### 17. Package outline

#### Plastic surface-mounted package; 6 leads

**SOT363** 

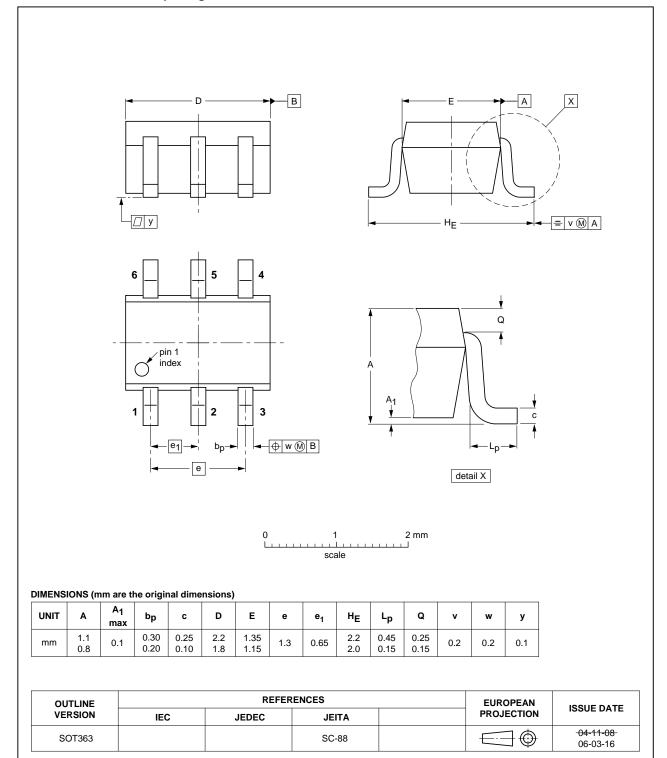


Fig 13. Package outline SOT363 (SC-88)

74HC\_HCT2G17\_Q100

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#### Plastic surface-mounted package (TSOP6); 6 leads

**SOT457** 

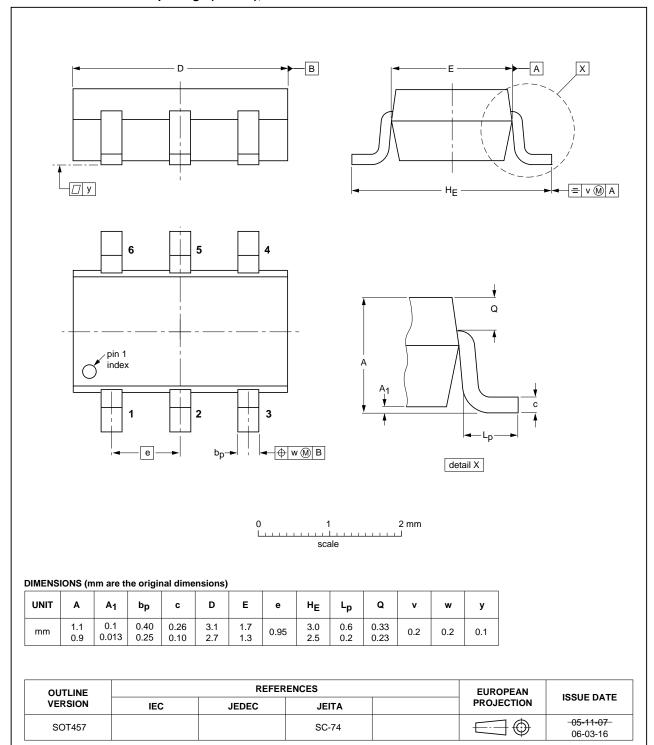


Fig 14. Package outline SOT457 (SC-74)

74HC\_HCT2G17\_Q100

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## 18. Abbreviations

#### Table 13. Abbreviations

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

## 19. Revision history

#### Table 14. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74HC_HCT2G17_Q100 v.1	20130522	Product data sheet	-	-

### 20. Legal information

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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.
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### **Nexperia**

**Dual non-inverting Schmitt trigger** 

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