

74HC2G14; 74HCT2G14

Dual inverting Schmitt trigger

Rev. 01 — 11 October 2006

Product data sheet

1. General description

The 74HC2G14; 74HCT2G14 is a high-speed Si-gate CMOS device.

The 74HC2G14; 74HCT2G14 provides two inverting buffers with Schmitt trigger action which accept standard input signals. They are capable of transforming slowly changing input signals into sharply defined, jitter-free output signals.

The inputs switch at different points for positive and negative-going signals. The difference between the positive voltage V_{T+} and the negative voltage V_{T-} is defined as the input hysteresis voltage V_H .

2. Features

- Wide supply voltage range from 2.0 V to 6.0 V
- Complies with JEDEC standard no. 7A
- High noise immunity
- ESD protection:
 - ◆ HBM JESD22-A114-D exceeds 2000 V
 - ◆ MM JESD22-A115-A exceeds 200 V
- Low power dissipation
- Balanced propagation delays
- Unlimited input rise and fall times
- Multiple package options
- Specified from $-40\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$ and $-40\text{ }^{\circ}\text{C}$ to $+125\text{ }^{\circ}\text{C}$

3. Applications

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

4. Ordering information

Table 1. Ordering information

| Type number | Package | | | Version |
|-------------|-------------------|-------|--|---------|
| | Temperature range | Name | Description | |
| 74HC2G14GW | -40 °C to +125 °C | SC-88 | plastic surface-mounted package; 6 leads | SOT363 |
| 74HC2G14GV | -40 °C to +125 °C | SC-74 | plastic surface-mounted package (TSOP6); 6 leads | SOT457 |
| 74HCT2G14GW | -40 °C to +125 °C | SC-88 | plastic surface-mounted package; 6 leads | SOT363 |
| 74HCT2G14GV | -40 °C to +125 °C | SC-74 | plastic surface-mounted package (TSOP6); 6 leads | SOT457 |

5. Marking

Table 2. Marking

| Type number | Marking code |
|-------------|--------------|
| 74HC2G14GW | HK |
| 74HC2G14GV | H14 |
| 74HCT2G14GW | TK |
| 74HCT2G14GV | T14 |

6. Functional diagram

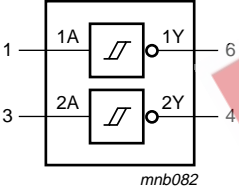


Fig 1. Logic symbol

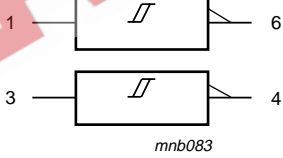


Fig 2. IEC logic symbol

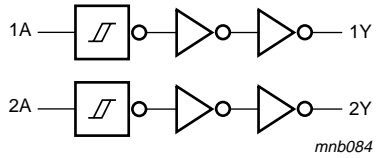


Fig 3. Logic diagram

7. Pinning information

7.1 Pinning

74HC2G14
74HCT2G14

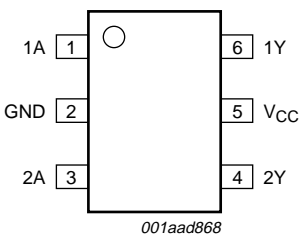


Fig 4. Pin configuration

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 _{CC} | 5 | supply voltage |
| 1Y | 6 | data output |

8. Functional description

Table 4. Function table^[1]

| Input | Output |
|-------|--------|
| nA | nY |
| L | H |
| H | L |

- [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 _{IK} | input clamping current | V _I < -0.5 V or V _I > V _{CC} + 0.5 V | [1] | - | ±20 mA |
| I _{OK} | output clamping current | V _O < -0.5 V or V _O > V _{CC} + 0.5 V | [1] | - | ±20 mA |
| I _O | output current | V _O = -0.5 V to V _{CC} + 0.5 V | [1] | - | ±25 mA |
| I _{CC} | supply current | | [1] | - | +50 mA |
| I _{GND} | ground current | | [1] | - | -50 mA |
| T _{stg} | storage temperature | | -65 | +150 | °C |
| P _{tot} | total power dissipation | | [2] | - | 250 mW |

- [1] The minimum input and output voltage ratings may be exceeded if the input and output current ratings are observed.
[2] For SC-88 and SC-74 packages: above 87.5 °C the value of P_{tot} derates linearly with 4.0 mW/K.

10. Recommended operating conditions

Table 6. Recommended operating conditions

| Symbol | Parameter | Conditions | Min | Typ | Max | Unit |
|-----------------------|---------------------|------------|-----|-----|----------|------|
| Type 74HC2G14 | | | | | | |
| V_{CC} | supply voltage | | 2.0 | 5.0 | 6.0 | V |
| V_I | input voltage | | 0 | - | V_{CC} | V |
| V_O | output voltage | | 0 | - | V_{CC} | V |
| T_{amb} | ambient temperature | | -40 | +25 | +125 | °C |
| Type 74HCT2G14 | | | | | | |
| V_{CC} | supply voltage | | 4.5 | 5.0 | 5.5 | V |
| V_I | input voltage | | 0 | - | V_{CC} | V |
| V_O | output voltage | | 0 | - | V_{CC} | V |
| T_{amb} | ambient temperature | | -40 | +25 | +125 | °C |

11. Static characteristics

Table 7. Static characteristics for 74HC2G14

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

| Symbol | Parameter | Conditions | Min | Typ | Max | Unit |
|--|---------------------------|---|------|------|-----------|---------------|
| $T_{amb} = 25\text{ °C}$ | | | | | | |
| V_{OH} | HIGH-level output voltage | $V_I = V_{IH}$ or V_{IL} | | | | |
| | | $I_O = -20\text{ }\mu\text{A}; V_{CC} = 2.0\text{ V}$ | 1.9 | 2.0 | - | V |
| | | $I_O = -20\text{ }\mu\text{A}; V_{CC} = 4.5\text{ V}$ | 4.4 | 4.5 | - | V |
| | | $I_O = -20\text{ }\mu\text{A}; V_{CC} = 6.0\text{ V}$ | 5.9 | 6.0 | - | V |
| | | $I_O = -4.0\text{ mA}; V_{CC} = 4.5\text{ V}$ | 4.18 | 4.32 | - | V |
| V_{OL} | LOW-level output voltage | $V_I = V_{IH}$ or V_{IL} | | | | |
| | | $I_O = 20\text{ }\mu\text{A}; V_{CC} = 2.0\text{ V}$ | - | 0 | 0.1 | V |
| | | $I_O = 20\text{ }\mu\text{A}; V_{CC} = 4.5\text{ V}$ | - | 0 | 0.1 | V |
| | | $I_O = 20\text{ }\mu\text{A}; V_{CC} = 6.0\text{ V}$ | - | 0 | 0.1 | V |
| | | $I_O = 4.0\text{ mA}; V_{CC} = 4.5\text{ V}$ | - | 0.15 | 0.26 | V |
| I_I | input leakage current | $V_I = \text{GND}$ or $V_{CC}; V_{CC} = 6.0\text{ V}$ | - | - | ± 0.1 | μA |
| | | $V_I = \text{GND}$ or $V_{CC}; I_O = 0\text{ }\mu\text{A}; V_{CC} = 6.0\text{ V}$ | - | - | 1.0 | μA |
| C_I | input capacitance | | - | 2.0 | - | pF |

Table 7. Static characteristics for 74HC2G14 ...continued
 At recommended operating conditions; voltages are referenced to GND (ground = 0 V).

| Symbol | Parameter | Conditions | Min | Typ | Max | Unit |
|--|---------------------------|---|------|-----|------|------|
| T_{amb} = -40 °C to +85 °C | | | | | | |
| V _{OH} | HIGH-level output voltage | V _I = V _{IH} or V _{IL} | | | | |
| | | I _O = -20 μA; V _{CC} = 2.0 V | 1.9 | - | - | V |
| | | I _O = -20 μA; V _{CC} = 4.5 V | 4.4 | - | - | V |
| | | I _O = -20 μA; V _{CC} = 6.0 V | 5.9 | - | - | V |
| | | I _O = -4.0 mA; V _{CC} = 4.5 V | 4.13 | - | - | V |
| | | I _O = -5.2 mA; V _{CC} = 6.0 V; | 5.63 | - | - | V |
| V _{OL} | LOW-level output voltage | V _I = V _{IH} or V _{IL} | | | | |
| | | I _O = 20 μA; V _{CC} = 2.0 V | - | - | 0.1 | V |
| | | I _O = 20 μA; V _{CC} = 4.5 V | - | - | 0.1 | V |
| | | I _O = 20 μA; V _{CC} = 6.0 V | - | - | 0.1 | V |
| | | I _O = 4.0 mA; V _{CC} = 4.5 V | - | - | 0.33 | V |
| | | I _O = 5.2 mA; V _{CC} = 6.0 V | - | - | 0.33 | V |
| I _I | input leakage current | V _I = GND or V _{CC} ; V _{CC} = 6.0 V | - | - | ±1.0 | μA |
| I _{CC} | supply current | V _I = GND or V _{CC} ; I _O = 0 μA; V _{CC} = 6.0 V | - | - | 10.0 | μA |
| T_{amb} = -40 °C to +125 °C | | | | | | |
| V _{OH} | HIGH-level output voltage | V _I = V _{IH} or V _{IL} | | | | |
| | | I _O = -20 μA; V _{CC} = 2.0 V | 1.9 | - | - | V |
| | | I _O = -20 μA; V _{CC} = 4.5 V | 4.4 | - | - | V |
| | | I _O = -20 μA; V _{CC} = 6.0 V | 5.9 | - | - | V |
| | | I _O = -4.0 mA; V _{CC} = 4.5 V | 3.7 | - | - | V |
| | | I _O = -5.2 mA; V _{CC} = 6.0 V; | 5.2 | - | - | V |
| V _{OL} | LOW-level output voltage | V _I = V _{IH} or V _{IL} | | | | |
| | | I _O = 20 μA; V _{CC} = 2.0 V | - | - | 0.1 | V |
| | | I _O = 20 μA; V _{CC} = 4.5 V | - | - | 0.1 | V |
| | | I _O = 20 μA; V _{CC} = 6.0 V | - | - | 0.1 | V |
| | | I _O = 4.0 mA; V _{CC} = 4.5 V | - | - | 0.4 | V |
| | | I _O = 5.2 mA; V _{CC} = 6.0 V | - | - | 0.4 | V |
| I _I | input leakage current | V _I = GND or V _{CC} ; V _{CC} = 6.0 V | - | - | ±1.0 | μA |
| I _{CC} | supply current | V _I = GND or V _{CC} ; I _O = 0 μA; V _{CC} = 6.0 V | - | - | 20.0 | μA |

Table 8. Static characteristics for 74HCT2G14

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

| Symbol | Parameter | Conditions | Min | Typ | Max | Unit |
|--|---------------------------|---|------|------|------|------|
| T_{amb} = 25 °C | | | | | | |
| V _{OH} | HIGH-level output voltage | V _I = V _{IH} or V _{IL} | | | | |
| | | I _O = -20 μA; V _{CC} = 4.5 V | 4.4 | 4.5 | - | V |
| | | I _O = -4.0 mA; V _{CC} = 4.5 V | 4.18 | 4.32 | - | V |
| V _{OL} | LOW-level output voltage | V _I = V _{IH} or V _{IL} | | | | |
| | | I _O = 20 μA; V _{CC} = 4.5 V | - | 0 | 0.1 | V |
| | | I _O = 4.0 mA; V _{CC} = 4.5 V | - | 0.15 | 0.26 | V |
| I _I | input leakage current | V _I = GND or V _{CC} ; V _{CC} = 5.5 V | - | - | ±0.1 | μA |
| I _{CC} | supply current | V _I = GND or V _{CC} ; I _O = 0 μA; V _{CC} = 5.5 V | - | - | 1.0 | μA |
| ΔI _{CC} | additional supply current | V _I = V _{CC} - 2.1 V; V _{CC} = 4.5 V to 5.5 V; I _O = 0 μA | - | - | 300 | μA |
| C _I | input capacitance | | - | 2.0 | - | pF |
| T_{amb} = -40 °C to +85 °C | | | | | | |
| V _{OH} | HIGH-level output voltage | V _I = V _{IH} or V _{IL} | | | | |
| | | I _O = -20 μA; V _{CC} = 4.5 V | 4.4 | - | - | V |
| | | I _O = -4.0 mA; V _{CC} = 4.5 V | 4.13 | - | - | V |
| V _{OL} | LOW-level output voltage | V _I = V _{IH} or V _{IL} | | | | |
| | | I _O = 20 μA; V _{CC} = 4.5 V | - | - | 0.1 | V |
| | | I _O = 4.0 mA; V _{CC} = 4.5 V | - | - | 0.33 | V |
| I _I | input leakage current | V _I = GND or V _{CC} ; V _{CC} = 5.5 V | - | - | ±1.0 | μA |
| I _{CC} | supply current | V _I = GND or V _{CC} ; I _O = 0 μA; V _{CC} = 5.5 V | - | - | 10.0 | μA |
| ΔI _{CC} | additional supply current | V _I = V _{CC} - 2.1 V; V _{CC} = 4.5 V to 5.5 V; I _O = 0 μA | - | - | 375 | μA |
| T_{amb} = -40 °C to +125 °C | | | | | | |
| V _{OH} | HIGH-level output voltage | V _I = V _{IH} or V _{IL} | | | | |
| | | I _O = -20 μA; V _{CC} = 4.5 V | 4.4 | - | - | V |
| | | I _O = -4.0 mA; V _{CC} = 4.5 V | 3.7 | - | - | V |
| V _{OL} | LOW-level output voltage | V _I = V _{IH} or V _{IL} | | | | |
| | | I _O = 20 μA; V _{CC} = 4.5 V | - | - | 0.1 | V |
| | | I _O = 4.0 mA; V _{CC} = 4.5 V | - | - | 0.4 | V |
| I _I | input leakage current | V _I = GND or V _{CC} ; V _{CC} = 5.5 V | - | - | ±1.0 | μA |
| I _{CC} | supply current | V _I = GND or V _{CC} ; I _O = 0 μA; V _{CC} = 5.5 V | - | - | 20.0 | μA |
| ΔI _{CC} | additional supply current | V _I = V _{CC} - 2.1 V; V _{CC} = 4.5 V to 5.5 V; I _O = 0 μA | - | - | 410 | μA |

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 °C to +125 °C | | | Unit |
|------------------|-------------------------------|---|-------|-----|-----|-------------------|-------------|--------------|------|
| | | | Min | Typ | Max | Min | Max (85 °C) | Max (125 °C) | |
| 74HC2G14 | | | | | | | | | |
| t _{pd} | propagation delay | nA to nY; see Figure 5 [1] | | | | | | | |
| | | V _{CC} = 2.0 V; C _L = 50 pF | - | 53 | 125 | - | 155 | 190 | ns |
| | | V _{CC} = 4.5 V; C _L = 50 pF | - | 16 | 25 | - | 31 | 38 | ns |
| | | V _{CC} = 6.0 V; C _L = 50 pF | - | 13 | 21 | - | 26 | 32 | ns |
| t _t | transition time | nY; see Figure 5 [2] | | | | | | | |
| | | V _{CC} = 2.0 V; C _L = 50 pF | - | 20 | 75 | - | 95 | 110 | ns |
| | | V _{CC} = 4.5 V; C _L = 50 pF | - | 7 | 15 | - | 19 | 22 | ns |
| | | V _{CC} = 6.0 V; C _L = 50 pF | - | 5 | 13 | - | 16 | 19 | ns |
| C _{PD} | power dissipation capacitance | V _I = GND to V _{CC} [3] | - | 10 | - | - | - | - | pF |
| 74HCT2G14 | | | | | | | | | |
| t _{pd} | propagation delay | nA to nY; see Figure 5 [1] | | | | | | | |
| | | V _{CC} = 4.5 V; C _L = 50 pF | - | 21 | 32 | - | 40 | 48 | ns |
| t _t | transition time | nY; see Figure 5 [2] | | | | | | | |
| | | V _{CC} = 4.5 V; C _L = 50 pF | - | 6 | 15 | - | 19 | 22 | ns |
| C _{PD} | power dissipation capacitance | V _I = GND to V _{CC} - 1.5 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 μW).

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

f_i = input frequency in MHz;

f_o = output frequency in MHz;

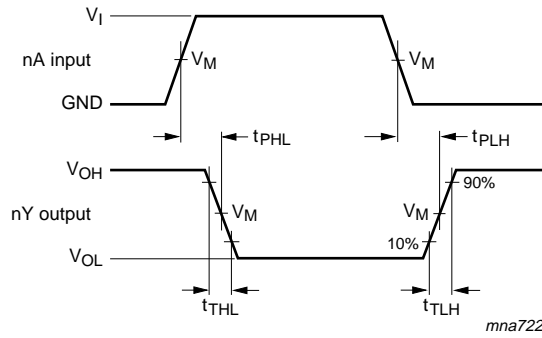
C_L = output load capacitance in pF;

V_{CC} = supply voltage in V;

N = number of inputs switching;

Σ(C_L × V_{CC}² × f_o) = sum of the outputs.

13. Waveforms



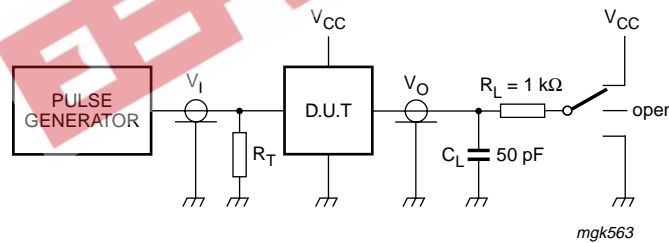
Measurement points are given in [Table 10](#).

V_{OL} and V_{OH} are typical voltage output drop 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

| Type | Input | | | Output |
|-----------|-------------|-----------------|-------------|-------------|
| | V_M | V_I | $t_r = t_f$ | V_M |
| 74HC2G14 | $0.5V_{CC}$ | GND to V_{CC} | 6.0 ns | $0.5V_{CC}$ |
| 74HCT2G14 | 1.3 V | GND to 3.0 V | 6.0 ns | 1.3 V |



Test data is given in [Table 11](#).

Definitions test circuit:

R_L = 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. Load circuitry for switching times

Table 11. Test data

| Type | Input | | Test |
|-----------|-----------------|------------|--------------------|
| | V_I | t_r, t_f | t_{PHL}, t_{PLH} |
| 74HC2G14 | GND to V_{CC} | 6 ns | open |
| 74HCT2G14 | GND to 3.0 V | 6 ns | open |

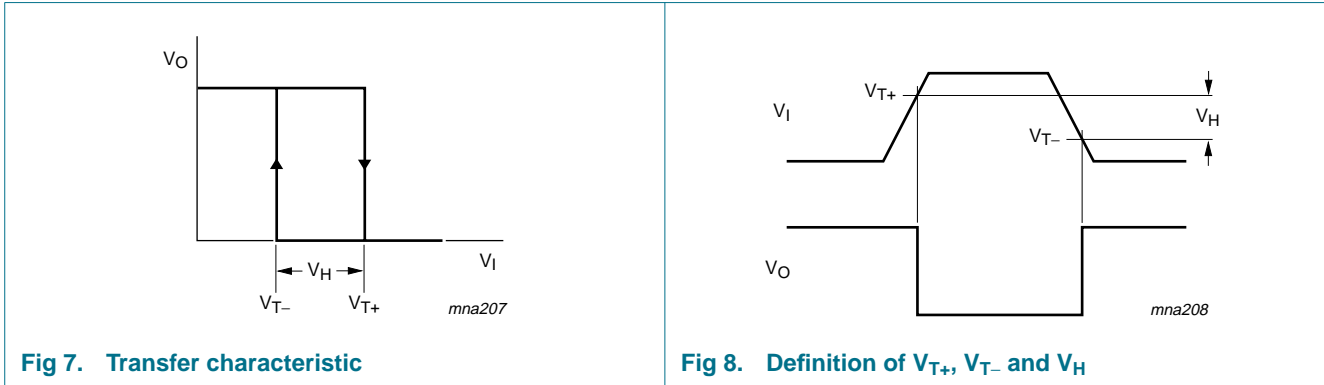
14. Transfer characteristics

Table 12. Transfer characteristics

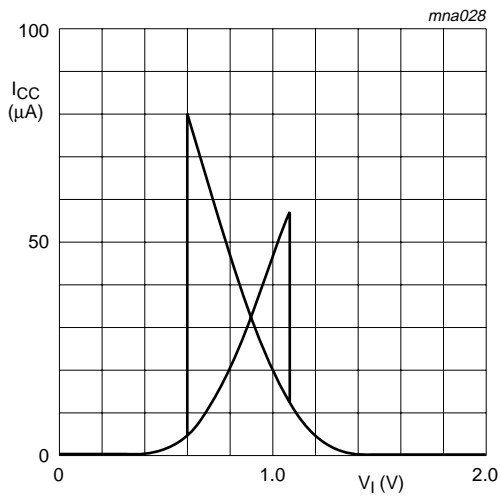
Voltages are referenced to GND (ground = 0 V); for test circuit see [Figure 6](#).

| Symbol | Parameter | Conditions | 25 °C | | | -40 °C to +125 °C | | | Unit |
|------------------|----------------------------------|---|-------|------|------|-------------------|-------------|--------------|------|
| | | | Min | Typ | Max | Min | Max (85 °C) | Max (125 °C) | |
| 74HC2G14 | | | | | | | | | |
| V_{T+} | positive-going threshold voltage | see Figure 7 , Figure 8 | | | | | | | |
| | | $V_{CC} = 2.0\text{ V}$ | 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_H | hysteresis voltage | $(V_{T+} - V_{T-})$; see Figure 7 , Figure 8 and Figure 9 | | | | | | | |
| | | $V_{CC} = 2.0\text{ V}$ | 0.30 | 0.60 | 1.00 | 0.30 | 1.00 | 1.00 | V |
| | | $V_{CC} = 4.5\text{ V}$ | 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 |
| 74HCT2G14 | | | | | | | | | |
| V_{T+} | positive-going threshold voltage | see Figure 7 and Figure 8 | | | | | | | |
| | | $V_{CC} = 4.5\text{ V}$ | 1.20 | 1.58 | 1.90 | 1.20 | 1.90 | 1.90 | V |
| | | $V_{CC} = 5.5\text{ V}$ | 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 | | | | | | | |
| | | $V_{CC} = 4.5\text{ V}$ | 0.50 | 0.87 | 1.20 | 0.50 | 1.20 | 1.20 | V |
| | | $V_{CC} = 5.5\text{ V}$ | 0.60 | 1.11 | 1.40 | 0.60 | 1.40 | 1.40 | V |
| V_H | hysteresis voltage | $(V_{T+} - V_{T-})$; see Figure 7 , Figure 8 and Figure 10 | | | | | | | |
| | | $V_{CC} = 4.5\text{ V}$ | 0.40 | 0.71 | - | 0.40 | - | - | V |
| | | $V_{CC} = 5.5\text{ V}$ | 0.40 | 0.67 | - | 0.40 | - | - | V |

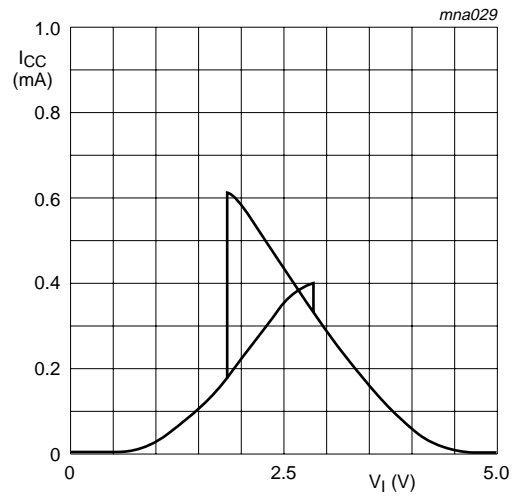
15. Waveforms transfer characteristics



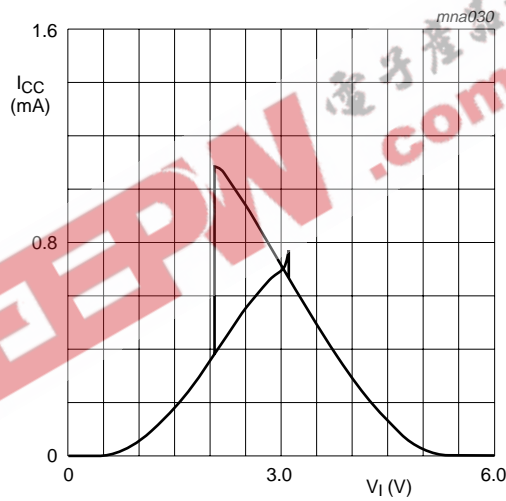
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a. $V_{CC} = 2.0\text{ V}$



b. $V_{CC} = 4.5\text{ V}$



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

Fig 9. Typical 74HC2G14 transfer characteristics

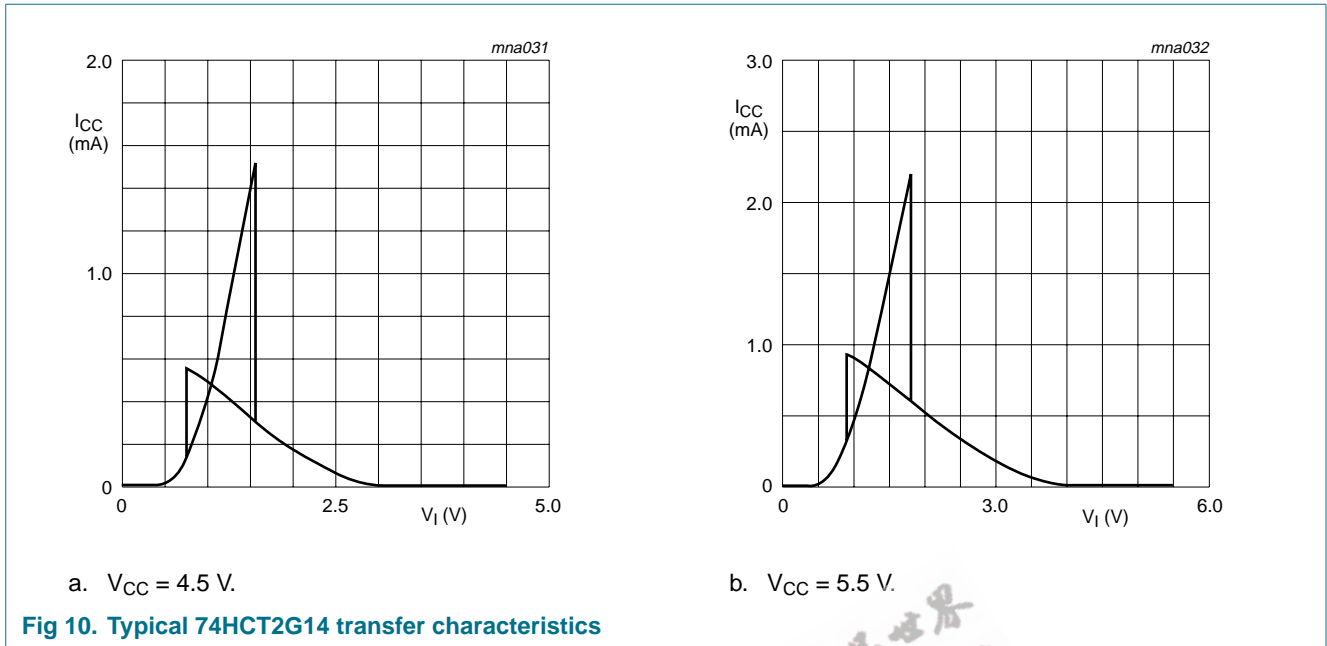


Fig 10. Typical 74HCT2G14 transfer characteristics

16. Application information

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

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

P_{add} = additional power dissipation (μ W);

f_i = input frequency (MHz);

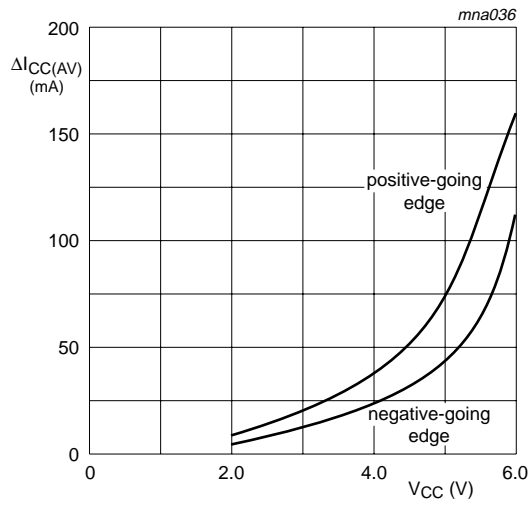
t_r = input rise time (ns); 10 % to 90 %;

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

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

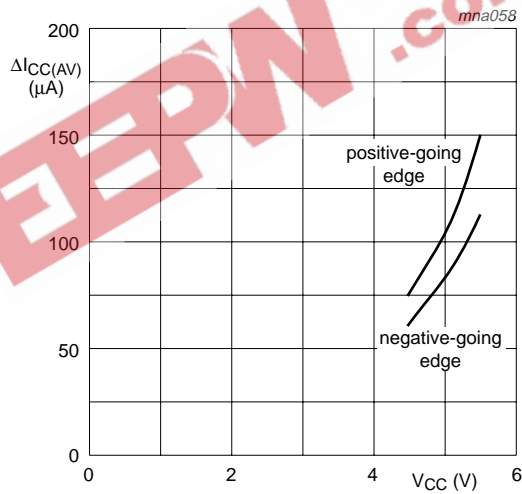
$\Delta I_{CC(AV)}$ differs with positive or negative input transitions, as shown in [Figure 11](#) and [Figure 12](#).

An example of a relaxation circuit using the 74HC2G14/74HCT2G14 is shown in [Figure 13](#).



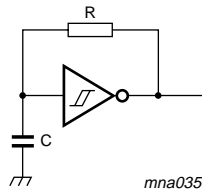
- (1) Positive-going edge.
- (2) Negative-going edge.

Fig 11. $\Delta I_{CC(AV)}$ as a function of V_{CC} for 74HC2G14; linear change of V_I between $0.1V_{CC}$ to $0.9V_{CC}$



- (1) Positive-going edge.
- (2) Negative-going edge.

Fig 12. $\Delta I_{CC(AV)}$ as a function of V_{CC} for 74HCT2G14; linear change of V_I between $0.1V_{CC}$ to $0.9V_{CC}$



$$\text{For 74HC2G14: } f = \frac{1}{T} \approx \frac{1}{0.8 \times RC}$$

$$\text{For 74HCT2G14: } f = \frac{1}{T} \approx \frac{1}{0.67 \times RC}$$

Fig 13. Relaxation oscillator

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17. Package outline

Plastic surface-mounted package; 6 leads

SOT363

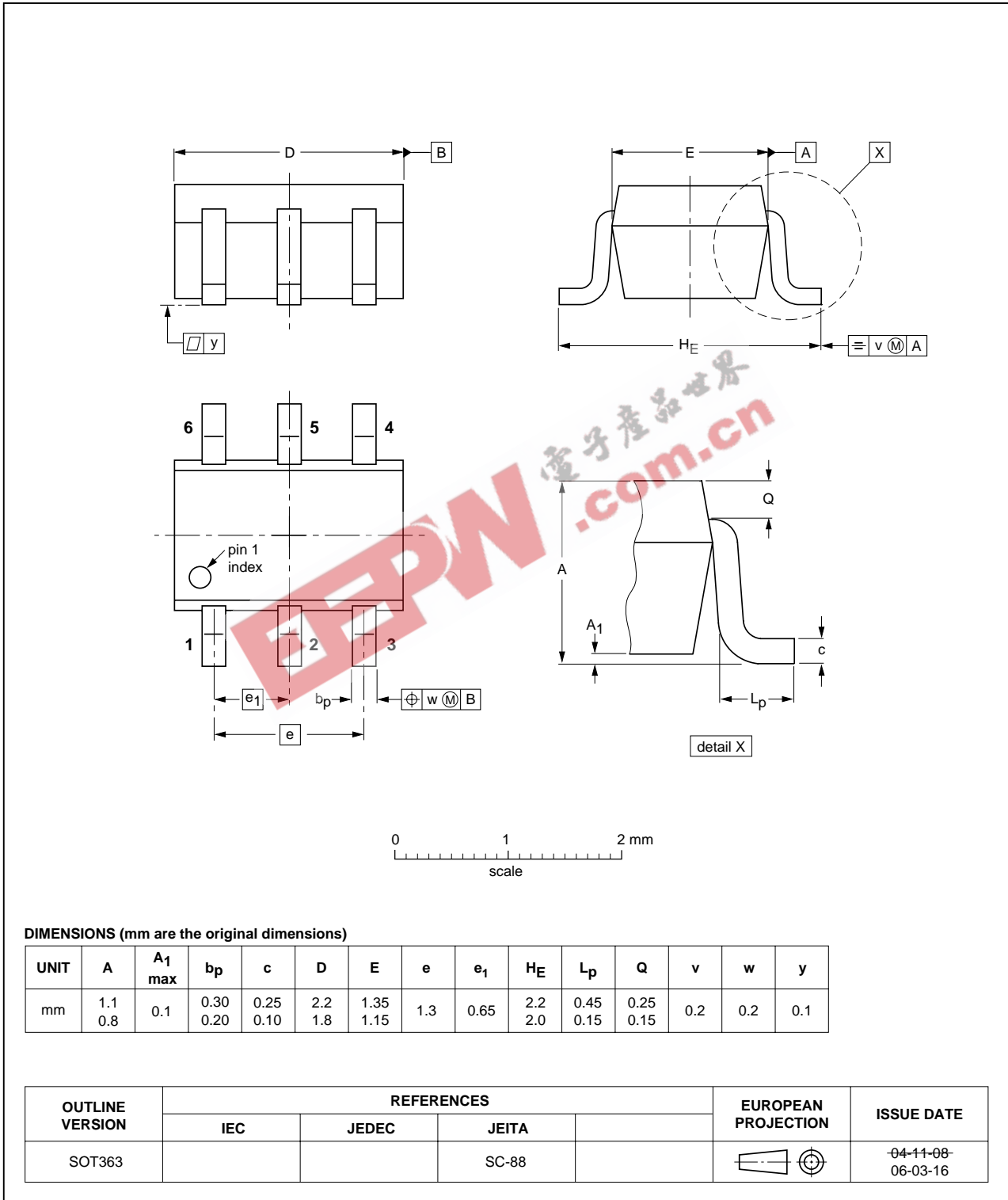


Fig 14. Package outline SOT363 (SC-88)

Plastic surface-mounted package (TSOP6); 6 leads

SOT457

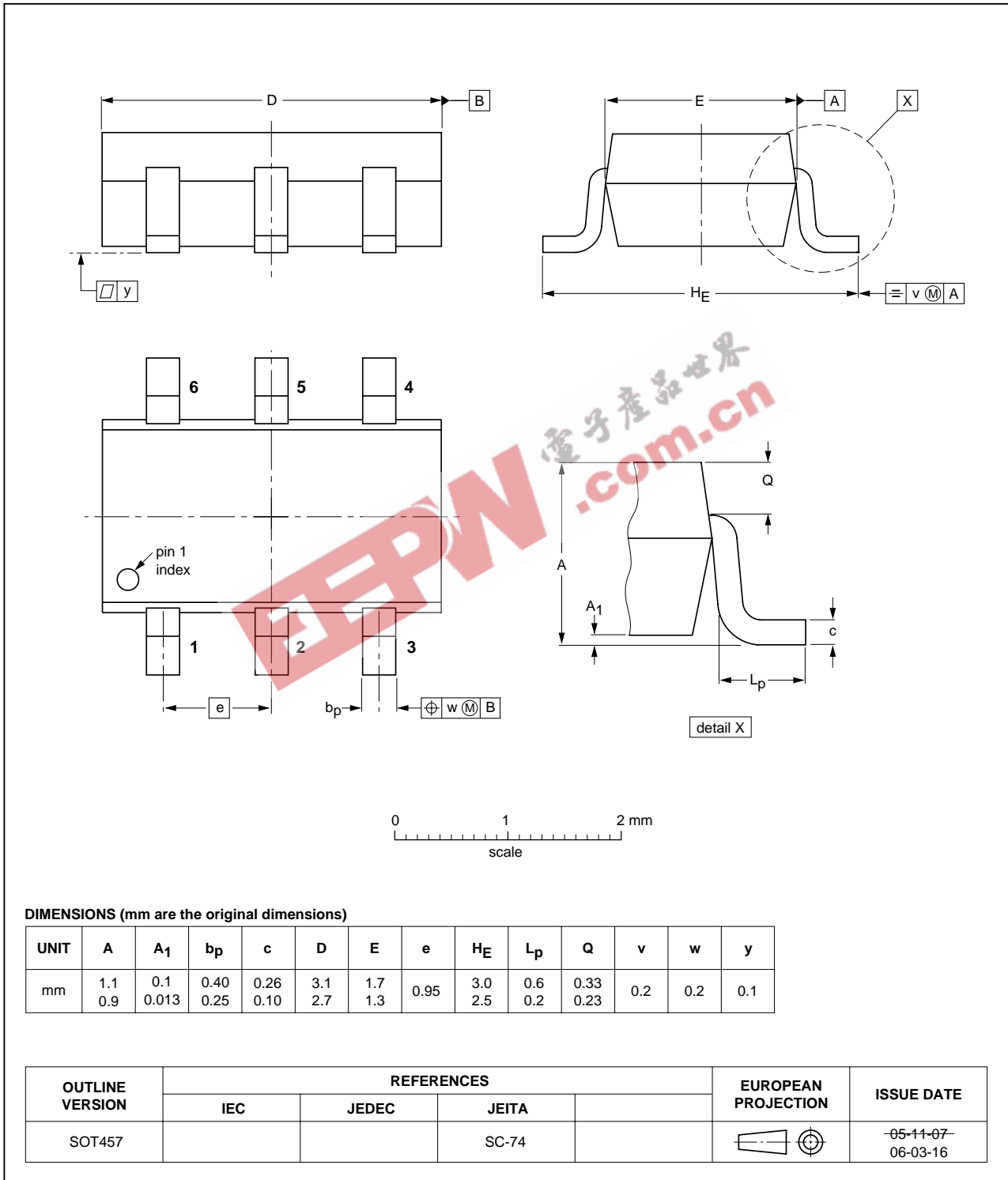


Fig 15. Package outline SOT457 (SC-74)

18. Abbreviations

Table 13. Abbreviations

| Acronym | Description |
|---------|---|
| CMOS | Complementary Metal Oxide Semiconductor |
| ESD | ElectroStatic Discharge |
| HBM | Human Body Model |
| MM | Machine Model |
| DUT | Device Under Test |

19. Revision history

Table 14. Revision history

| Document ID | Release date | Data sheet status | Change notice | Supersedes |
|----------------|--------------|--------------------|---------------|------------|
| 74HC_HCT2G14_1 | 20061011 | Product data sheet | - | - |

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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.nxp.com>.

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