74HC2G34; 74HCT2G34

Dual buffer gate

Rev. 01 — 6 October 2006

Product data sheet

General description 1.

The 74HC2G34; 74HCT2G34 is a high-speed Si-gate CMOS device.

The 74HC2G34; 74HCT2G34 provides two buffers.

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 °C to +85 °C and -40 °C to +125 °C

Ordering information

Table 1. **Ordering information**

Type number	Package						
	Temperature range	Name	Description	Version			
74HC2G34GW	-40 °C to +125 °C	SC-88	plastic surface-mounted package; 6 leads	SOT363			
74HC2G34GV	–40 °C to +125 °C	SC-74	plastic surface-mounted package (TSOP6); 6 leads	SOT457			
74HCT2G34GW	–40 °C to +125 °C	SC-88	plastic surface-mounted package; 6 leads	SOT363			
74HCT2G34GV	–40 °C to +125 °C	SC-74	plastic surface-mounted package (TSOP6); 6 leads	SOT457			

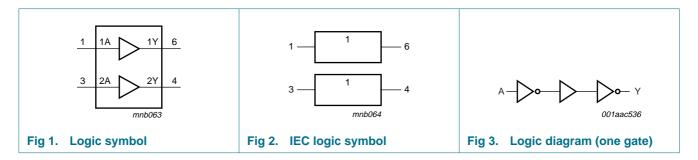
4. **Marking**

Table 2. **Marking**

Type number	Marking code
74HC2G34GW	PA
74HC2G34GV	P34
74HCT2G34GW	UA
74HCT2G34GV	U34

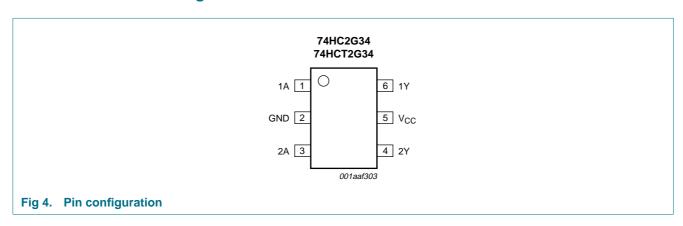


5. Functional diagram



6. Pinning information

6.1 Pinning



6.2 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

7. Functional description

Table 4. Function table [1]

Input	Output
nA	nY
L	L
Н	Н

^[1] H = HIGH voltage level;L = LOW voltage level.

8. 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	$V_I < -0.5 \text{ V or } V_I > V_{CC} + 0.5 \text{ V}$	<u>[1]</u> _	±20	mA
I _{OK}	output clamping current	$V_O < -0.5 \text{ V or } V_O > V_{CC} + 0.5 \text{ V}$	<u>[1]</u> _	±20	mA
I _O	output current	$V_O = -0.5 \text{ V to } V_{CC} + 0.5 \text{ V}$	<u>[1]</u> _	±25	mA
I _{CC}	supply current		<u>[1]</u> _	+50	mA
I_{GND}	ground current		<u>[1]</u> _	-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.

9. Recommended operating conditions

Table 6. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
Type 74HC	2G34					
V_{CC}	supply voltage		2.0	5.0	6.0	V
V _I	input voltage		0	-	V_{CC}	V
Vo	output voltage		0	-	V_{CC}	V
T _{amb}	ambient temperature		-40	+25	+125	°C
t _r	rise time	except for Schmitt trigger inputs				
		V _{CC} = 2.0 V	-	-	1000	ns
		V _{CC} = 4.5 V	-	-	500	ns
		V _{CC} = 6.0 V	-	-	400	ns
t _f	fall time	except for Schmitt trigger inputs				
		V _{CC} = 2.0 V	-	-	1000	ns
		$V_{CC} = 4.5 \text{ V}$	-	-	500	ns
		V _{CC} = 6.0 V	-	-	400	ns

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

 Table 6.
 Recommended operating conditions ...continued

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
Type 74HC	T2G34					
V_{CC}	supply voltage		4.5	5.0	5.5	V
V_{I}	input voltage		0	-	V_{CC}	V
Vo	output voltage		0	-	V_{CC}	V
T _{amb}	ambient temperature		-40	+25	+125	°C
t _r	rise time	except for Schmitt trigger inputs				
		V _{CC} = 4.5 V	-	-	500	ns
t _f	fall time	except for Schmitt trigger inputs				
		V _{CC} = 4.5 V	-	-	500	ns

10. Static characteristics

Table 7. Static characteristics for 74HC2G34

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

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _{amb} = 25	°C					
V _{IH}	HIGH-level input voltage	$V_{CC} = 2.0 \text{ V}$	1.5	1.2	-	V
		V _{CC} = 4.5 V	3.15	2.4	-	V
		V _{CC} = 6.0 V	4.2	3.2	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 2.0 V	-	0.8	0.5	V
		V _{CC} = 4.5 V	-	2.1	1.35	V
		V _{CC} = 6.0 V	-	2.8	1.8	V
V _{OH}	HIGH-level output voltage	$V_I = V_{IH}$ or V_{IL}				
		$I_{O} = -20 \mu A; V_{CC} = 2.0 V$	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
V _{OL}	LOW-level output voltage	$V_I = V_{IH}$ or V_{IL}				
		$I_O = 20 \mu A; V_{CC} = 2.0 V$	-	0	0.1	V
		$I_O = 20 \mu A; V_{CC} = 4.5 V$	-	0	0.1	V
		$I_O = 20 \mu A; V_{CC} = 6.0 \text{ V}$	-	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 _I	input leakage current	$V_I = GND \text{ or } V_{CC}; V_{CC} = 6.0 \text{ V}$	-	-	±0.1	μΑ
lcc	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		-	1.5	-	pF

 Table 7.
 Static characteristics for 74HC2G34 ...continued

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

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _{amb} = -40) °C to +85 °C					
V _{IH}	/ _{IH} HIGH-level input voltage	V _{CC} = 2.0 V	1.5	-	-	V
		V _{CC} = 4.5 V	3.15	-	-	V
		V _{CC} = 6.0 V	4.2	-	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 2.0 V	-	-	0.5	V
	L =	V _{CC} = 4.5 V	-	-	1.35	V
		V _{CC} = 6.0 V	-	-	1.8	V
√ _{OH}	HIGH-level output voltage	$V_I = V_{IH}$ or V_{IL}				
		$I_{O} = -20 \mu A$; $V_{CC} = 2.0 V$	1.9	-	-	V
		$I_{O} = -20 \mu A$; $V_{CC} = 4.5 V$	4.4	-	-	V
		$I_{O} = -20 \mu A$; $V_{CC} = 6.0 \text{ V}$	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
/ _{OL}	LOW-level output voltage	$V_I = V_{IH}$ or V_{IL}				
		$I_O = 20 \mu A; V_{CC} = 2.0 \text{ V}$	-	-	0.1	V
		$I_O = 20 \mu A; V_{CC} = 4.5 V$	-	-	0.1	V
		$I_O = 20 \mu A; V_{CC} = 6.0 \text{ V}$	-	-	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
I	input leakage current	$V_I = GND \text{ or } V_{CC}; V_{CC} = 6.0 \text{ V}$	-	-	±1.0	μΑ
CC	supply current	$V_I = GND \text{ or } V_{CC}; I_O = 0 A;$	-	-	10.0	μΑ
		$V_{CC} = 6.0 V$				
Γ _{amb} = -40) °C to +125 °C					
/ _{IH}	HIGH-level input voltage	V _{CC} = 2.0 V	1.5	-	-	V
		V _{CC} = 4.5 V	3.15	-	-	V
		V _{CC} = 6.0 V	4.2	-	-	V
/ _{IL}	LOW-level input voltage	V _{CC} = 2.0 V	-	-	0.5	V
		V _{CC} = 4.5 V	-	-	1.35	V
		V _{CC} = 6.0 V	-	-	1.8	V
′он	HIGH-level output voltage	$V_I = V_{IH}$ or V_{IL}				
		$I_{O} = -20 \mu A; V_{CC} = 2.0 V$	1.9	-	-	V
		$I_{O} = -20 \mu A$; $V_{CC} = 4.5 V$	4.4	-	-	V
		$I_O = -20 \mu A$; $V_{CC} = 6.0 \text{ V}$	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 74HC2G34 ...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	$V_I = V_{IH}$ or V_{IL}				
		$I_{O} = 20 \mu A; V_{CC} = 2.0 V$	-	-	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
I _I	input leakage current	$V_I = GND \text{ or } V_{CC}; V_{CC} = 6.0 \text{ V}$	-	-	±1.0	μΑ
I _{CC}	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 74HCT2G34

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

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _{amb} = 25	°C					
V_{IH}	HIGH-level input voltage	V _{CC} = 4.5 V to 5.5 V	2.0	1.6	-	V
V_{IL}	LOW-level input voltage	V _{CC} = 4.5 V to 5.5 V	-	1.2	0.8	V
V _{OH}	HIGH-level output voltage	$V_I = V_{IH}$ or V_{IL}				
		$I_O = -20 \mu A; V_{CC} = 4.5 V$	4.4	4.5	-	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}				
		$I_O = 20 \mu A; V_{CC} = 4.5 V$	-	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	$V_I = GND \text{ or } V_{CC}; V_{CC} = 5.5 \text{ V}$	-	-	±0.1	μΑ
I _{CC}	supply current	$V_I = GND \text{ or } V_{CC}; I_O = 0 \text{ A};$ $V_{CC} = 5.5 \text{ V}$	-	-	1.0	μΑ
ΔI_{CC}	additional supply current	$V_I = V_{CC} - 2.1 \text{ V};$ $V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}; I_O = 0 \text{ A}$	-	-	300	μΑ
Cı	input capacitance		-	1.5	-	pF
T _{amb} = -40	°C to +85 °C					
V_{IH}	HIGH-level input voltage	V _{CC} = 4.5 V to 5.5 V	2.0	-	-	V
V _{IL}	LOW-level input voltage	$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	-	-	0.8	V
V _{OH}	HIGH-level output voltage	$V_I = V_{IH}$ or V_{IL}				
		$I_O = -20 \mu A; V_{CC} = 4.5 V$	4.4	-	-	V
		$I_{O} = -4.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	4.13	-	-	V
V _{OL}	LOW-level output voltage	$V_I = V_{IH}$ or V_{IL}				
		$I_O = 20 \mu A; V_{CC} = 4.5 V$	-	-	0.1	V
		$I_{O} = 4.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	-	0.33	V
l _l	input leakage current	$V_I = GND \text{ or } V_{CC}; V_{CC} = 5.5 \text{ V}$	-	-	±1.0	μΑ
I _{CC}	supply current	$V_I = GND \text{ or } V_{CC}; I_O = 0 \text{ A};$ $V_{CC} = 5.5 \text{ V}$	-	-	10.0	μΑ
Δl _{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	μΑ
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Table 8. Static characteristics for 74HCT2G34 ...continued

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

	, ,	5	,			
Symbol	Parameter	Conditions	Min	Тур	Max	Unit
$T_{amb} = -40$	°C to +125 °C					
V_{IH}	HIGH-level input voltage	V _{CC} = 4.5 V to 5.5 V	2.0	-	-	V
V_{IL}	LOW-level input voltage	V _{CC} = 4.5 V to 5.5 V	-	-	0.8	V
V_{OH}	HIGH-level output voltage	$V_I = V_{IH}$ or V_{IL}				
		$I_{O} = -20 \mu A; V_{CC} = 4.5 V$	4.4	-	-	V
		$I_{O} = -4.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.7	-	-	V
V_{OL}	LOW-level output voltage	$V_I = V_{IH}$ or V_{IL}				
		$I_O = 20 \mu A; V_{CC} = 4.5 V$	-	-	0.1	V
		$I_O = 4.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	-	0.4	V
I _I	input leakage current	$V_I = GND \text{ or } V_{CC}; V_{CC} = 5.5 \text{ V}$	-	-	±1.0	μΑ
I _{CC}	supply current	$V_I = GND \text{ or } V_{CC}; I_O = 0 \text{ A};$ $V_{CC} = 5.5 \text{ V}$	-	-	20.0	μΑ
ΔI_{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

11. 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	Тур	Max	Min	Max (85 °C)	Max (125 °C)	
74HC2G3	4									
t _{pd}	propagation delay	nA to nY; see Figure 5]							
		$V_{CC} = 2.0 \text{ V}; C_L = 50 \text{ pF}$		-	29	75	-	95	125	ns
		$V_{CC} = 4.5 \text{ V}; C_L = 50 \text{ pF}$		-	9	15	-	19	25	ns
		$V_{CC} = 6.0 \text{ V}; C_L = 50 \text{ pF}$		-	8	13	-	16	20	ns
t _t	transition time	nY; see Figure 5]							
		$V_{CC} = 2.0 \text{ V}; C_L = 50 \text{ pF}$		-	18	75	-	95	125	ns
		$V_{CC} = 4.5 \text{ V}; C_L = 50 \text{ pF}$		-	6	15	-	19	25	ns
		$V_{CC} = 6.0 \text{ V}; C_L = 50 \text{ pF}$		-	5	13	-	16	20	ns
C_{PD}	power dissipation capacitance	$V_I = GND \text{ to } V_{CC}$	<u>]</u>	-	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)	
74HCT2G34										
t _{pd}	propagation delay	nA to nY; see Figure 5	<u>[1]</u>							
		$V_{CC} = 4.5 \text{ V}; C_L = 50 \text{ pF}$		-	10	18	-	23	29	ns
t _t	transition time	nY; see Figure 5	[2]							
		$V_{CC} = 4.5 \text{ V}; C_L = 50 \text{ pF}$		-	6	15	-	19	25	ns
C_{PD}	power dissipation capacitance	$V_I = GND$ to $V_{CC} - 1.5 V$	[3]	-	9	-	-	-	-	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).

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

 f_i = input frequency in MHz;

f_o = output frequency in MHz;

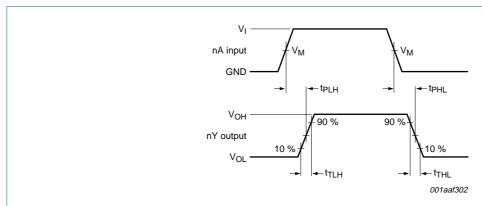
C_L = output load capacitance in pF;

 V_{CC} = supply voltage in V;

N = number of inputs switching;

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

12. Waveforms



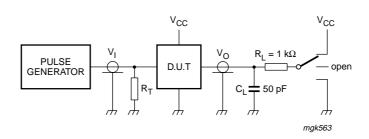
Measurement points are given in Table 10.

 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

Туре	Input	Output		
	V _M	V _I	$t_r = t_f$	V _M
74HC2G34	0.5V _{CC}	GND to V _{CC}	6.0 ns	0.5V _{CC}
74HCT2G34	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_0 of the pulse generator.

Fig 6. Load circuitry for switching times

Table 11. Test data

Туре	Input	Test	
	V _I	t _r , t _f	t _{PHL} , t _{PLH}
74HC2G34	GND to V _{CC}	6 ns	open
74HCT2G34	GND to 3.0 V	6 ns	open

13. Package outline

Plastic surface-mounted package; 6 leads

SOT363

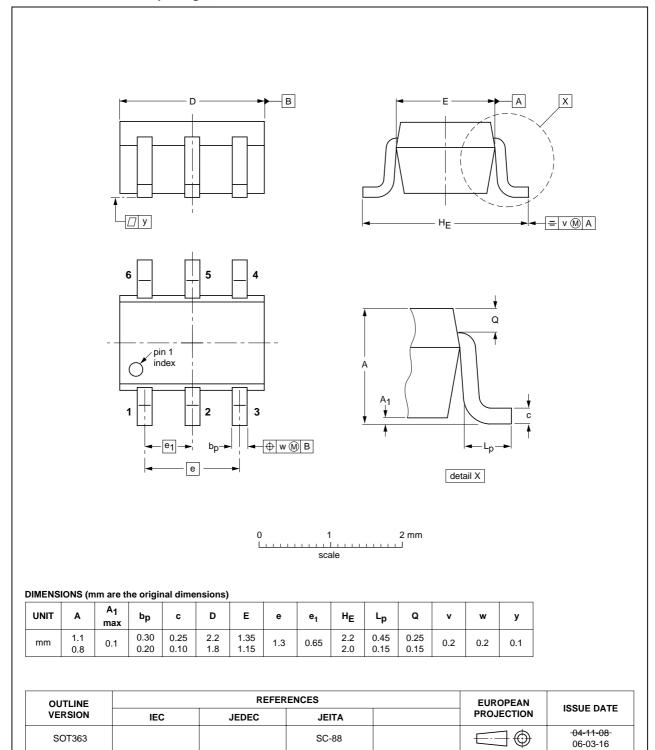


Fig 7. Package outline SOT363 (SC-88)

Plastic surface-mounted package (TSOP6); 6 leads

SOT457

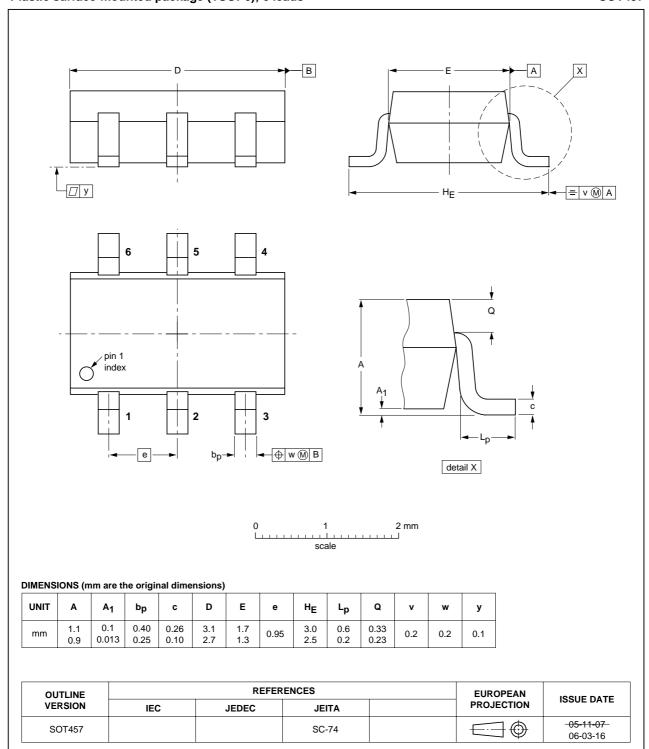


Fig 8. Package outline SOT457 (SC-74)

14. Abbreviations

Table 12. Abbreviations

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

15. Revision history

Table 13. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74HC_HCT2G34_1	20061006	Product data sheet	-	-

16. Legal information

16.1 Data sheet status

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"
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