



74AHC1G17; 74AHCT1G17

Single Schmitt trigger buffer

Rev. 5 — 14 March 2025

Product data sheet

1. General description

The 74AHC1G17 and 74AHCT1G17 are single buffers with Schmitt-trigger inputs. Inputs are overvoltage tolerant. This feature allows the use of these devices as translators in mixed voltage environments.

2. Features and benefits

- Wide supply voltage range from 2.0 to 5.5 V
- Overvoltage tolerant inputs to 5.5 V
- High noise immunity
- CMOS low power dissipation
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level A
- Symmetrical output impedance
- Balanced propagation delays
- Input levels:
 - For 74AHC1G17: CMOS level
 - For 74AHCT1G17: TTL level
- SOT353-1 and SOT753 package options
- ESD protection:
 - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
 - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V
- Specified from -40 °C to +125 °C

3. Applications

- Wave and pulse shapers
- Astable multivibrators
- Monostable multivibrators

4. Ordering information

Table 1. Ordering information

Type number	Package			
	Temperature range	Name	Description	Version
74AHC1G17GW 74AHCT1G17GW	-40 °C to +125 °C	TSSOP5	plastic thin shrink small outline package; 5 leads; body width 1.25 mm	SOT353-1
74AHC1G17GV 74AHCT1G17GV	-40 °C to +125 °C	SC-74A	plastic surface-mounted package; 5 leads	SOT753
74AHC1G17GZ 74AHCT1G17GZ	-40 °C to +125 °C	XSON5	plastic thermal enhanced extremely thin small outline package with side-wettable flanks (SWF); no leads; 5 terminals; body 1.1 × 0.85 × 0.5 mm	SOT8065-1

5. Marking

Table 2. Marking codes

Type number	Marking code ^[1]
74AHC1G17GW	AJ
74AHCT1G17GW	CJ
74AHC1G17GV	A17
74AHCT1G17GV	C17
74AHC1G17GZ	AJ
74AHCT1G17GZ	CJ

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

6. Functional diagram

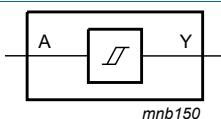


Fig. 1. Logic symbol

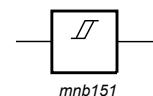


Fig. 2. IEC logic symbol

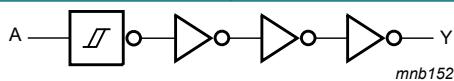
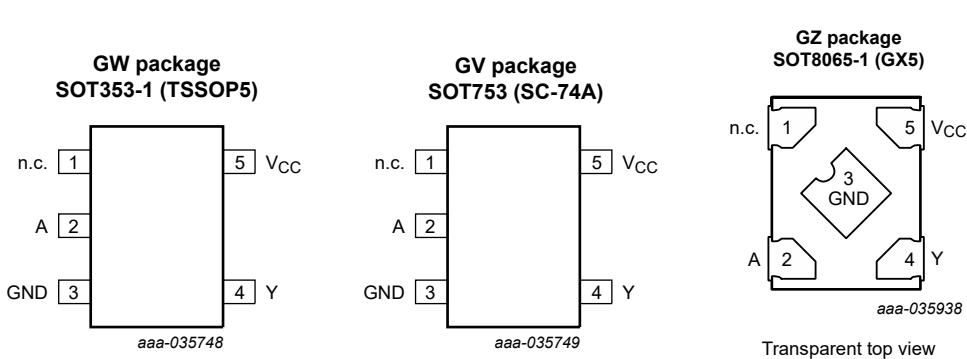


Fig. 3. Logic diagram

7. Pinning information

7.1. Pinning



7.2. Pin description

Table 3. Pin description

Symbol	Pin	Description
n.c.	1	not connected
A	2	data input
GND	3	ground (0 V)
Y	4	data output
V _{CC}	5	supply voltage

8. Functional description

Table 4. Function table

H = HIGH voltage level; L = LOW voltage level

Input	Output
A	Y
L	L
H	H

9. Limiting values

Table 5. Limiting values

In accordance with the Absolute Maximum Rating System (IEC 60134).

Symbol	Parameter	Conditions	Min	Max	Unit	
V _{CC}	supply voltage		-0.5	+7.0	V	
V _I	input voltage		-0.5	+7.0	V	
I _{IK}	input clamping current	V _I < -0.5 V	-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	-0.5 V < V _O < V _{CC} + 0.5 V	-	±25	mA	
I _{CC}	supply current		-	75	mA	
I _{GND}	ground current		-75	-	mA	
T _{stg}	storage temperature		-65	+150	°C	
P _{tot}	total power dissipation	T _{amb} = -40 °C to +125 °C	[2]	-	250	mW

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

[2] For SOT353-1 (TSSOP5) package: P_{tot} derates linearly with 3.3 mW/K above 74 °C.

For SOT753 (SC-74A) package: P_{tot} derates linearly with 3.8 mW/K above 85 °C.

For SOT8065-1 (XSON5) package: P_{tot} derates linearly with 3.2 mW/K above 72 °C.

10. Recommended operating conditions

Table 6. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	74AHC1G17			74AHCT1G17			Unit
			Min	Typ	Max	Min	Typ	Max	
V _{CC}	supply voltage		2.0	5.0	5.5	4.5	5.0	5.5	V
V _I	input voltage		0	-	5.5	0	-	5.5	V
V _O	output voltage		0	-	V _{CC}	0	-	V _{CC}	V
T _{amb}	ambient temperature		-40	+25	+125	-40	+25	+125	°C

11. Static characteristics

Table 7. Static characteristics

Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	25 °C			-40 °C to +85 °C		-40 °C to +125 °C		Unit
			Min	Typ	Max	Min	Max	Min	Max	
74AHC1G17										
V _{OH}	HIGH-level output voltage	V _I = V _{T+} or V _{T-}								
		I _O = -50 µA; V _{CC} = 2.0 V	1.9	2.0	-	1.9	-	1.9	-	V
		I _O = -50 µA; V _{CC} = 3.0 V	2.9	3.0	-	2.9	-	2.9	-	V
		I _O = -50 µA; V _{CC} = 4.5 V	4.4	4.5	-	4.4	-	4.4	-	V
		I _O = -4.0 mA; V _{CC} = 3.0 V	2.58	-	-	2.48	-	2.40	-	V
		I _O = -8.0 mA; V _{CC} = 4.5 V	3.94	-	-	3.8	-	3.70	-	V
V _{OL}	LOW-level output voltage	V _I = V _{T+} or V _{T-}								
		I _O = 50 µA; V _{CC} = 2.0 V	-	0	0.1	-	0.1	-	0.1	V
		I _O = 50 µA; V _{CC} = 3.0 V	-	0	0.1	-	0.1	-	0.1	V
		I _O = 50 µA; V _{CC} = 4.5 V	-	0	0.1	-	0.1	-	0.1	V
		I _O = 4.0 mA; V _{CC} = 3.0 V	-	-	0.36	-	0.44	-	0.55	V
		I _O = 8.0 mA; V _{CC} = 4.5 V	-	-	0.36	-	0.44	-	0.55	V
I _I	input leakage current	V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V	-	-	0.1	-	1.0	-	2.0	µA
I _{CC}	supply current	V _I = V _{CC} or GND; I _O = 0 A; V _{CC} = 5.5 V	-	-	1.0	-	10	-	40	µA
C _I	input capacitance		-	1.5	10	-	10	-	10	pF
74AHCT1G17										
V _{OH}	HIGH-level output voltage	V _I = V _{T+} or V _{T-} ; V _{CC} = 4.5 V								
		I _O = -50 µA	4.4	4.5	-	4.4	-	4.4	-	V
		I _O = -8.0 mA	3.94	-	-	3.8	-	3.70	-	V
V _{OL}	LOW-level output voltage	V _I = V _{T+} or V _{T-} ; V _{CC} = 4.5 V								
		I _O = 50 µA	-	0	0.1	-	0.1	-	0.1	V
		I _O = 8.0 mA	-	-	0.36	-	0.44	-	0.55	V
I _I	input leakage current	V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V	-	-	0.1	-	1.0	-	2.0	µA

Symbol	Parameter	Conditions	25 °C			-40 °C to +85 °C		-40 °C to +125 °C		Unit
			Min	Typ	Max	Min	Max	Min	Max	
I_{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5$ V	-	-	1.0	-	10	-	40	μA
ΔI_{CC}	additional supply current	per input pin; $V_I = 3.4$ V; other inputs at V_{CC} or GND; $I_O = 0$ A; $V_{CC} = 5.5$ V	-	-	1.35	-	1.5	-	1.5	mA
C_I	input capacitance		-	1.5	10	-	10	-	10	pF

11.1. Transfer characteristics

Table 8. Transfer characteristics

At recommended operating conditions; voltages are referenced to GND (ground = 0 V). See Fig. 4 and Fig. 5.

Symbol	Parameter	Conditions	25 °C			-40 °C to +85 °C		-40 °C to +125 °C		Unit
			Min	Typ	Max	Min	Max	Min	Max	
74AHC1G17										
V_{T+}	positive-going threshold voltage	$V_{CC} = 3.0$ V	-	-	2.2	-	2.2	-	2.2	V
		$V_{CC} = 4.5$ V	-	-	3.15	-	3.15	-	3.15	V
		$V_{CC} = 5.5$ V	-	-	3.85	-	3.85	-	3.85	V
V_{T-}	negative-going threshold voltage	$V_{CC} = 3.0$ V	0.9	-	-	0.9	-	0.9	-	V
		$V_{CC} = 4.5$ V	1.35	-	-	1.35	-	1.35	-	V
		$V_{CC} = 5.5$ V	1.65	-	-	1.65	-	1.65	-	V
V_H	hysteresis voltage	$V_{CC} = 3.0$ V	0.3	-	1.2	0.3	1.2	0.25	1.2	V
		$V_{CC} = 4.5$ V	0.4	-	1.4	0.4	1.4	0.35	1.4	V
		$V_{CC} = 5.5$ V	0.5	-	1.6	0.5	1.6	0.45	1.6	V
74AHCT1G17										
V_{T+}	positive-going threshold voltage	$V_{CC} = 4.5$ V	-	-	2.0	-	2.0	-	2.0	V
		$V_{CC} = 5.5$ V	-	-	2.0	-	2.0	-	2.0	V
V_{T-}	negative-going threshold voltage	$V_{CC} = 4.5$ V	0.5	-	-	0.5	-	0.5	-	V
		$V_{CC} = 5.5$ V	0.6	-	-	0.6	-	0.6	-	V
V_H	hysteresis voltage	$V_{CC} = 4.5$ V	0.4	-	1.4	0.4	1.4	0.35	1.4	V
		$V_{CC} = 5.5$ V	0.4	-	1.6	0.4	1.6	0.35	1.6	V

11.2. Transfer characteristic waveforms

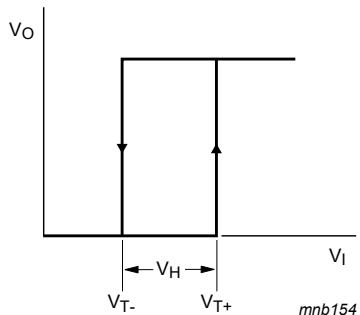


Fig. 4. Transfer characteristic

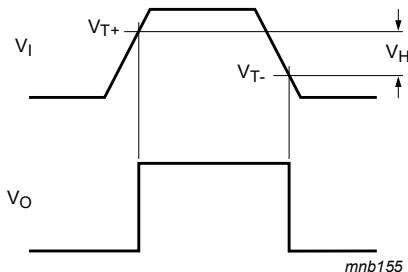


Fig. 5. The definitions of V_{T+} , V_{T-} and V_H

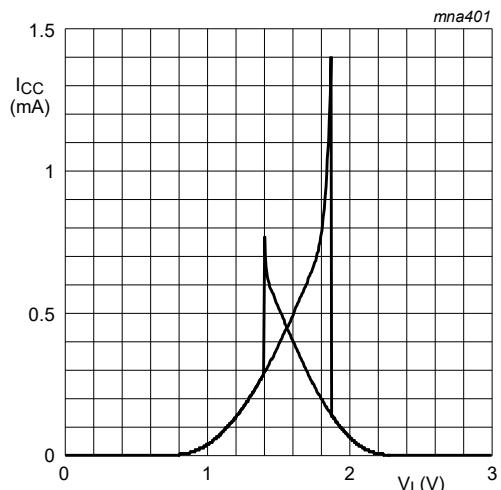


Fig. 6. Typical 74AHC1G17 transfer characteristics;
 $V_{CC} = 3.0\text{ V}$

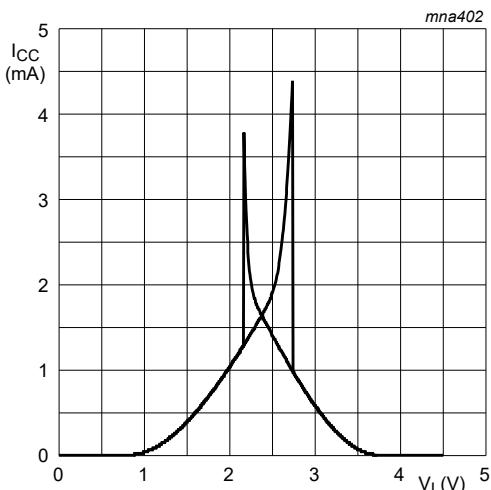


Fig. 7. Typical 74AHC1G17 transfer characteristics;
 $V_{CC} = 4.5\text{ V}$

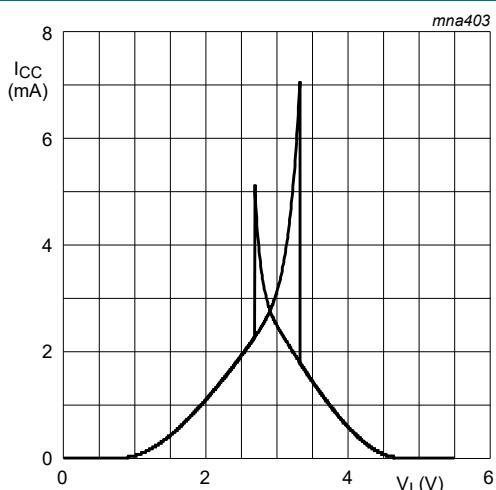


Fig. 8. Typical 74AHC1G17 transfer characteristics; $V_{CC} = 5.5\text{ V}$

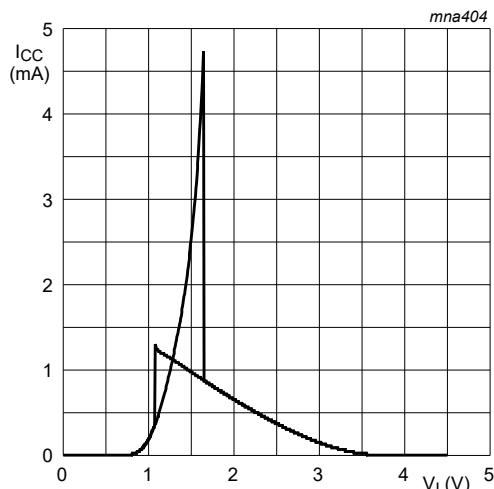


Fig. 9. Typical 74AHCT1G17 transfer characteristics;
V_{CC} = 4.5 V

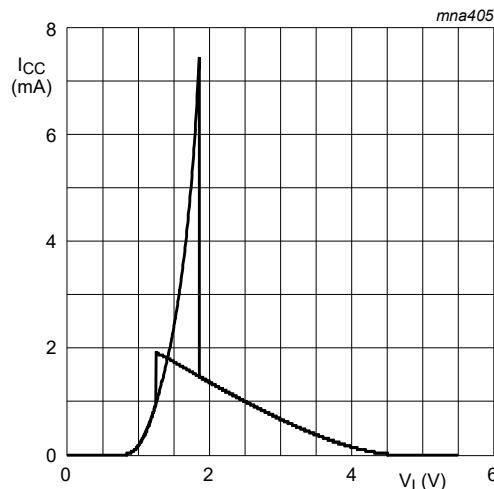


Fig. 10. Typical 74AHCT1G17 transfer characteristics;
V_{CC} = 5.5 V

12. Dynamic characteristics

Table 9. Dynamic characteristics

GND = 0 V; $t_r = t_f \leq 3.0 \text{ ns}$. For waveform, see Fig. 11. For test circuit, see Fig. 12.

Symbol	Parameter	Conditions	25 °C			-40 °C to +85 °C		-40 °C to +125 °C		Unit
			Min	Typ	Max	Min	Max	Min	Max	
74AHC1G17										
t _{pd}	propagation delay	A to Y [1]								
		V _{CC} = 3.0 V to 3.6 V [2]								
		C _L = 15 pF	-	4.2	12.8	1.0	15.0	1.0	16.5	ns
		C _L = 50 pF	-	6.0	16.3	1.0	18.5	1.0	20.5	ns
		V _{CC} = 4.5 V to 5.5 V [3]								
		C _L = 15 pF	-	3.2	8.6	1.0	10.0	1.0	11.0	ns
		C _L = 50 pF	-	4.6	10.6	1.0	12.0	1.0	13.5	ns
C _{PD}	power dissipation capacitance	per buffer; C _L = 50 pF; f = 1 MHz; V _I = GND to V _{CC} [4]	-	12	-	-	-	-	-	pF
74AHCT1G17										
t _{pd}	propagation delay	A to Y [1]								
		V _{CC} = 4.5 V to 5.5 V [3]								
		C _L = 15 pF	-	4.1	7.0	1.0	8.0	1.0	9.0	ns
C _{PD}	power dissipation capacitance	per buffer; C _L = 50 pF; f = 1 MHz; V _I = GND to V _{CC} [4]	-	5.9	8.5	1.0	10.0	1.0	11.0	ns
			-	13	-	-	-	-	-	pF

[1] t_{pd} is the same as t_{PLH} and t_{PHL}.

[2] Typical values are measured at V_{CC} = 3.3 V.

[3] Typical values are measured at V_{CC} = 5.0 V.

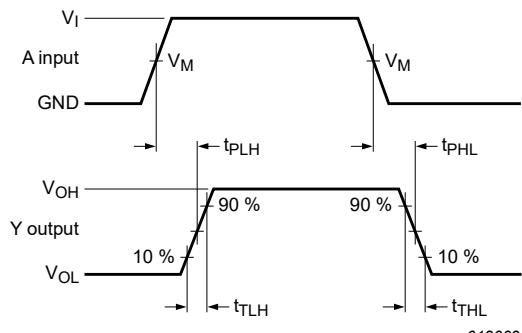
[4] C_{PD} is used to determine the dynamic power dissipation P_D (μW).

P_D = C_{PD} × V_{CC}² × f_i + Σ(C_L × V_{CC}² × f_o) where:

f_i = input frequency in MHz; f_o = output frequency in MHz;

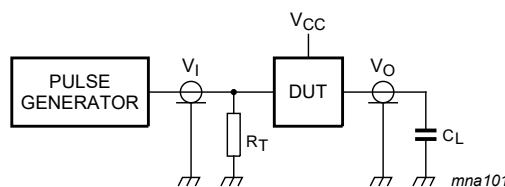
C_L = output load capacitance in pF; V_{CC} = supply voltage in V.

12.1. Waveform and test circuit



The test data is given in [Table 10](#).

Fig. 11. The input (A) to output (Y) propagation delays



Test data is given in [Table 10](#).

Definitions for test circuit:

C_L = Load capacitance;

R_T = Termination resistance should be equal to output impedance Z_0 of the pulse generator.

Fig. 12. Test circuit for measuring switching times

Table 10. Test data

Type number	Input		Output
	V_I	V_M	V_M
74AHC1G17	GND to V_{CC}	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$
74AHCT1G17	GND to 3.0 V	1.5 V	$0.5 \times V_{CC}$

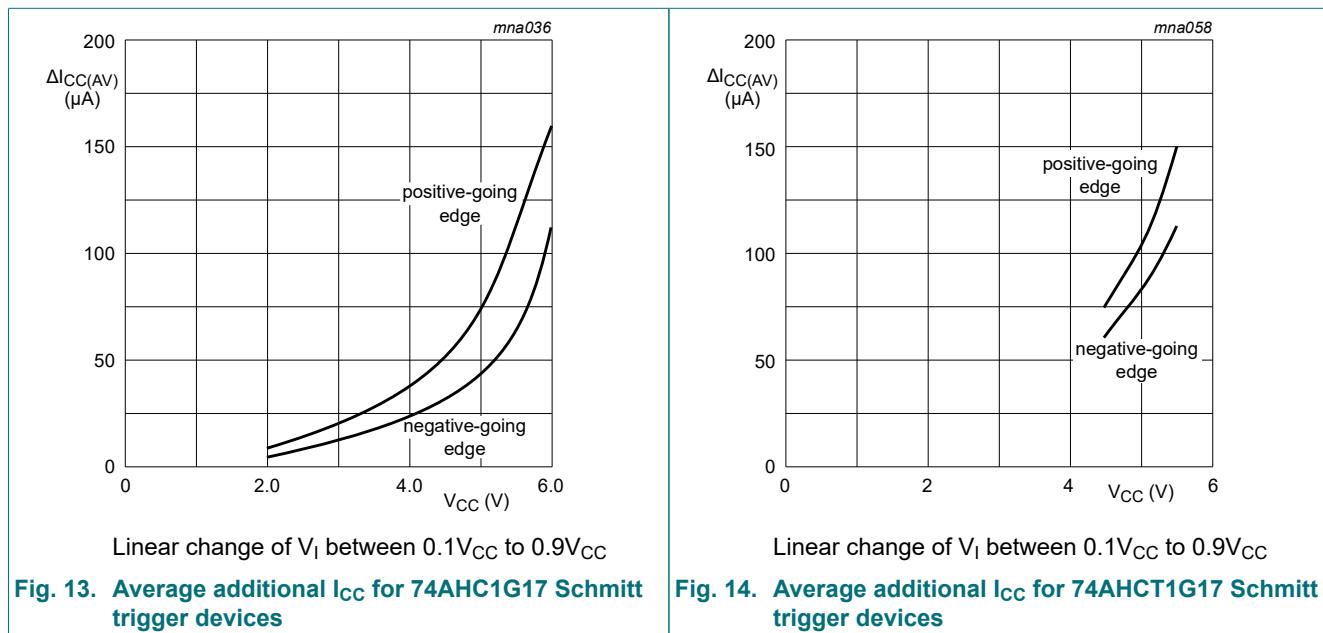
13. Application information

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

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

- P_{add} = additional power dissipation (μW);
- 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 (μA).

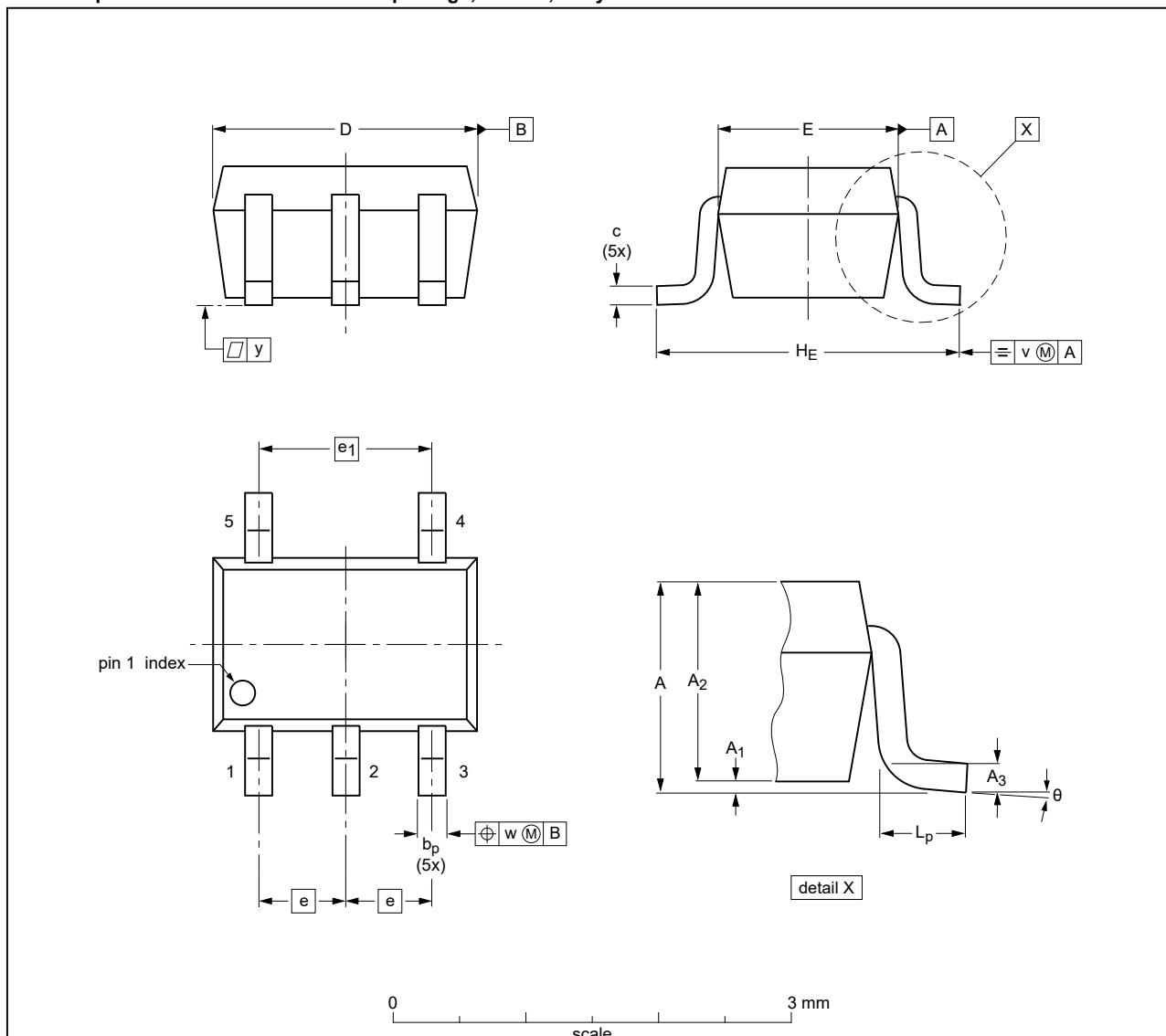
Average additional I_{CC} differs with positive or negative input transitions, as shown in [Fig. 13](#) and [Fig. 14](#).



14. Package outline

TSSOP5: plastic thin shrink small outline package; 5 leads; body width 1.25 mm

SOT353-1



Dimensions (mm are the original dimensions)

Unit	A	A ₁	A ₂	A ₃	b _p	c	D ⁽¹⁾	E ⁽¹⁾	e	e ₁	H _E	L _p	v	w	y	θ	
mm	max	1.1	0.1	1.0	0.15	0.30	0.25	2.2	1.35	0.65	1.3	2.4	0.46	0.3	0.1	0.1	8°
	min	0.8	0	0.8	0.15	0.15	0.08	1.8	1.15	1.8	1.8	0.26	0.3	0.1	0.1	0°	

Note

1. Plastic or metal protrusions of 0.2 mm maximum per side are not included.

sot353-1_po

Outline version	References				European projection	Issue date
	IEC	JEDEC	JEITA			
SOT353-1	MO-203	SC-88A				21-12-15 21-12-16

Fig. 15. Package outline SOT353-1 (TSSOP5)

Plastic surface-mounted package; 5 leads

SOT753

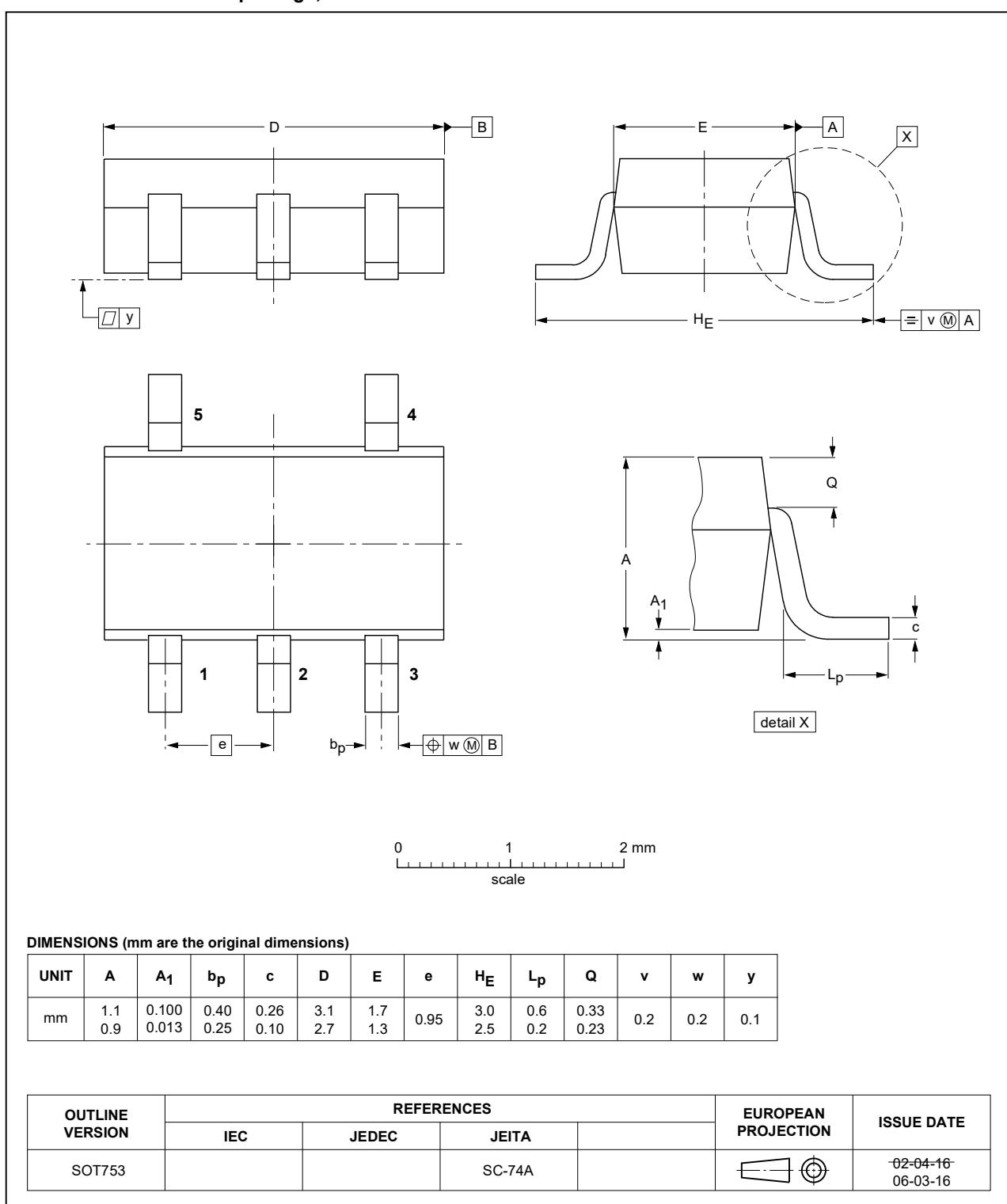


Fig. 16. Package outline SOT753 (SC-74A)

XSON5: Plastic thermal enhanced extremely thin small outline package with side-wettable flanks (SWF); no leads; 5 terminals; body $1.1 \times 0.85 \times 0.5$ mm

SOT8065-1

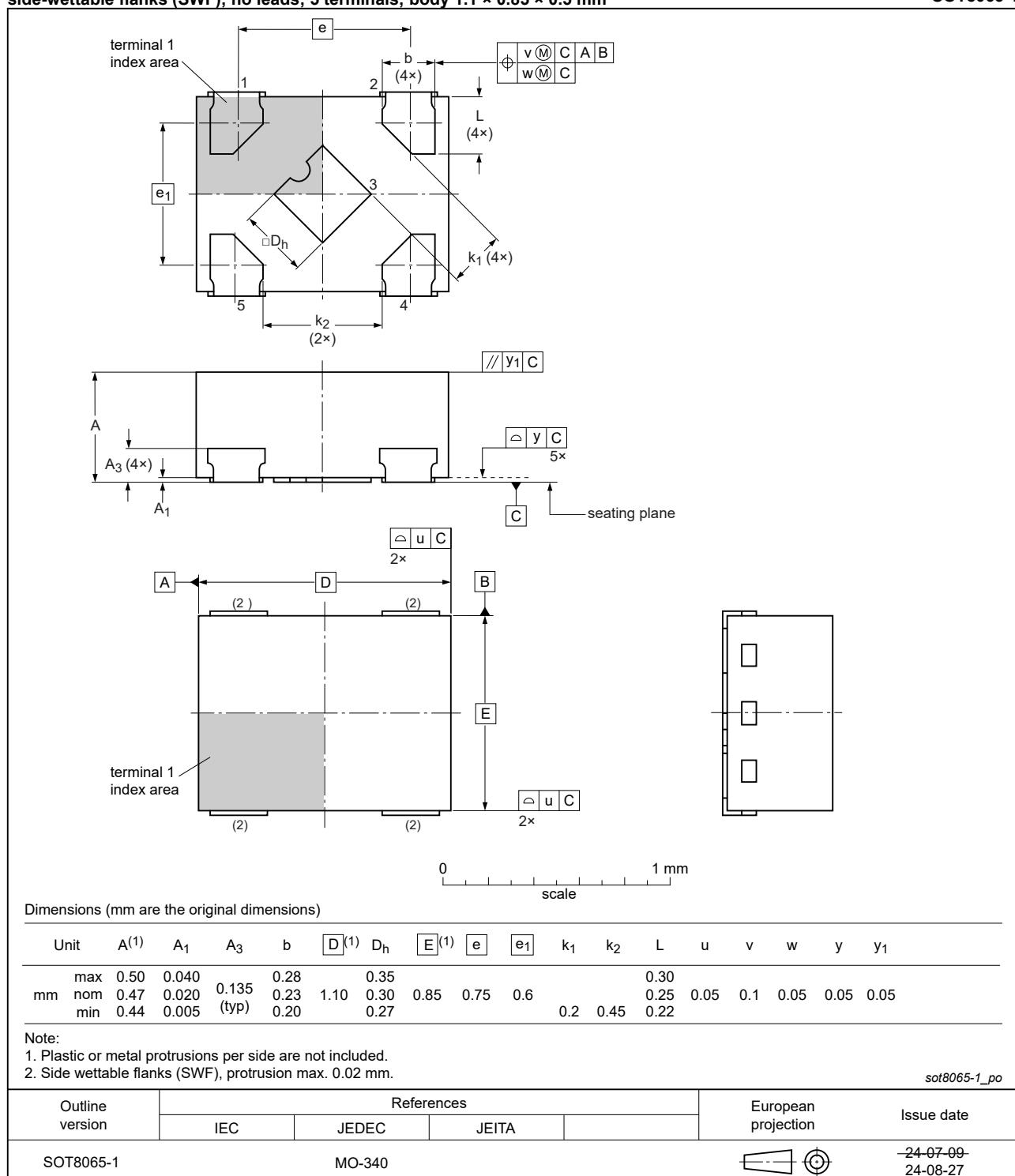


Fig. 17. Package outline SOT8065-1 (XSON5)

15. Abbreviations

Table 11. Abbreviations

Acronym	Description
ANSI	American National Standards Institute
CDM	Charged Device Model
CMOS	Complementary Metal-Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
ESDA	ElectroStatic Discharge Association
HBM	Human Body Model
JEDEC	Joint Electron Device Engineering Council
TTL	Transistor-Transistor Logic

16. Revision history

Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74AHC_AHCT1G17 v.5	20250314	Product data sheet	-	74AHC_AHCT1G17 v.4
Modifications:				<ul style="list-style-type: none"> Type numbers 74AHC1G17GZ and 74AHCT1G17GZ (SOT8065-1/XSON5) added.
74AHC_AHCT1G17 v.4	20230915	Product data sheet	-	74AHC_AHCT1G17 v.3
Modifications:				<ul style="list-style-type: none"> Section 2: ESD specification updated according to the latest JEDEC standard.
74AHC_AHCT1G17 v.3	20220112	Product data sheet	-	74AHC_AHCT1G17 v.2
Modifications:				<ul style="list-style-type: none"> The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia. Legal texts have been adapted to the new company name where appropriate. Section 2 updated. Fig. 15: Package outline drawing for SOT353-1 (TSSOP5) has changed. Section 9: Derating values for P_{tot} total power dissipation updated.
74AHC_AHCT1G17 v.2	20161005	Product data sheet	-	74AHC_AHCT1G17 v.1
Modifications:				<ul style="list-style-type: none"> Type numbers 74AHC1G17GF, 74AHC1G17GM, 74AHCT1G17GF and 74AHCT1G17GM removed.
74AHC_AHCT1G17 v.1	20140318	Product data sheet	-	-

17. Legal information

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".
- [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 <https://www.nexperia.com>.

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