74AHCT1G08GW,125 Datasheet

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DiGi Electronics Part Number	74AHCT1G08GW,125-DG
Manufacturer	Nexperia USA Inc.
Manufacturer Product Number	74AHCT1G08GW,125
Description	IC GATE AND 1CH 2-INP 5TSSOP
Detailed Description	AND Gate IC 1 Channel 5-TSSOP

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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
74AHCT1G08GW,125	Nexperia USA Inc.
Series:	Product Status:
74AHCT	Active
Logic Type:	Number of Circuits:
AND Gate	1
Number of Inputs:	Features:
2	-
Voltage - Supply:	Current - Quiescent (Max):
4.5V ~ 5.5V	1 µA
Current - Output High, Low:	Input Logic Level - Low:
8mA, 8mA	0.8V
Input Logic Level - High:	Max Propagation Delay @ V, Max CL:
2V	7.9ns @ 5V, 50pF
Operating Temperature:	Mounting Type:
-40°C ~ 125°C	Surface Mount
Supplier Device Package:	Package / Case:
5-TSSOP	5-TSSOP, SC-70-5, SOT-353
Base Product Number:	
74AHCT1G08	

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8542.39.0001	

74AHC1G08; 74AHCT1G08

2-input AND gate

Rev. 10.1 — 28 August 2024 Product data sheet

1. General description

The 74AHC1G08; 74AHCT1G08 is a single 2-input AND gate. 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 V 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 74AHC1G08: CMOS level
  - For 74AHCT1G08: TTL level
- 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. Ordering information

Table 1. Ordering information

Type number	Package			
	Temperature range	Name	Description	Version
74AHC1G08GW 74AHCT1G08GW	-40 °C to +125 °C	TSSOP5	plastic thin shrink small outline package; 5 leads; body width 1.25 mm	SOT353-1
74AHC1G08GV 74AHCT1G08GV	-40 °C to +125 °C	SC-74A	plastic surface-mounted package; 5 leads	SOT753
74AHC1G08GZ	-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

4. Marking

Table 2. Marking codes

Type number	Marking[1]
74AHC1G08GW	AE
74AHCT1G08GW	CE
74AHC1G08GV	A08
74AHCT1G08GV	C08
74AHC1G08GZ	AE

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

5. Functional diagram

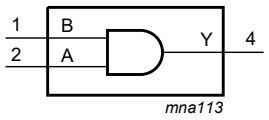


Fig. 1. Logic symbol

Fig. 2. IEC logic symbol

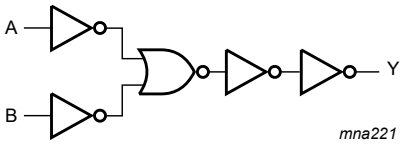
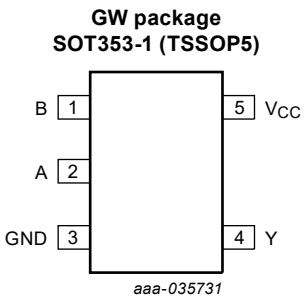
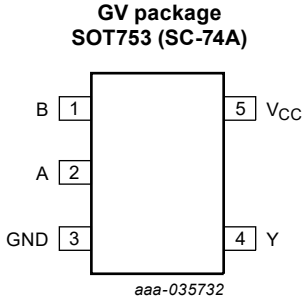


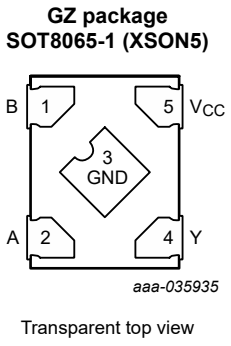
Fig. 3. Logic diagram

6. Pinning information

6.1. Pinning







Transparent top view

6.2. Pin description

Table 3. Pin description

Symbol	Pin	Description
B	1	data input
A	2	data input
GND	3	ground (0 V)
Y	4	data output
V_{CC}	5	supply voltage

7. Functional description

Table 4. Function table

H = HIGH voltage level; L = LOW voltage level

Inputs		Output
A	**B**	**Y**
L	L	L
L	H	L
H	L	L
H	H	H

8. 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.

9. Recommended operating conditions

Table 6. Recommended operating conditions

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

Symbol	Parameter	Conditions	74AHC1G08			74AHCT1G08			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
Δt/ΔV	input transition rise and fall rate	V_{CC} = 3.3 V ± 0.3 V	-	-	100	-	-	-	ns/V
		V_{CC} = 5.0 V ± 0.5 V	-	-	20	-	-	20	ns/V

10. 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	
74AHC1G08										
V_{IH}	HIGH-level input voltage	V_{CC} = 2.0 V	1.5	-	-	1.5	-	1.5	-	V
		V_{CC} = 3.0 V	2.1	-	-	2.1	-	2.1	-	V
		V_{CC} = 5.5 V	3.85	-	-	3.85	-	3.85	-	V
V_{IL}	LOW-level input voltage	V_{CC} = 2.0 V	-	-	0.5	-	0.5	-	0.5	V
		V_{CC} = 3.0 V	-	-	0.9	-	0.9	-	0.9	V
		V_{CC} = 5.5 V	-	-	1.65	-	1.65	-	1.65	V
V_{OH}	HIGH-level output voltage	V_I = V_{IH} or V_{IL}								
		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_{IH} or V_{IL}								
		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
74AHCT1G08										
V_{IH}	HIGH-level input voltage	V_{CC} = 4.5 V to 5.5 V	2.0	-	-	2.0	-	2.0	-	V
V_{IL}	LOW-level input voltage	V_{CC} = 4.5 V to 5.5 V	-	-	0.8	-	0.8	-	0.8	V
V_{OH}	HIGH-level output voltage	V_I = V_{IH} or V_{IL}; 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_{IH} or V_{IL}; 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
I_{CC}	supply current	V_I = V_{CC} or GND; I_O = 0 A; V_{CC} = 5.5 V	-	-	1.0	-	10	-	40	µA

Symbol	Parameter	Conditions	25 °C			-40 °C to +85 °C		-40 °C to +125 °C		Unit
			Min	Typ	Max	Min	Max	Min	Max	
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. Dynamic characteristics

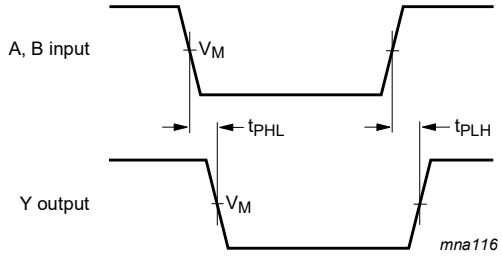
Table 8. Dynamic characteristics

GND = 0 V; $t_r = t_f$ = ≤ 3.0 ns. For test circuit see 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	
74AHC1G08											
t_{pd}	propagation delay	A and B to Y; see Fig. 4	[1]								
		V_{CC} = 3.0 V to 3.6 V	[2]								
		C_L = 15 pF		-	4.6	8.8	1.0	10.5	1.0	12.0	ns
		C_L = 50 pF		-	6.5	12.3	1.0	14.0	1.0	16.0	ns
		V_{CC} = 4.5 V to 5.5 V	[3]								
		C_L = 15 pF		-	3.2	5.9	1.0	7.0	1.0	8.0	ns
		C_L = 50 pF		-	4.6	7.9	1.0	9.0	1.0	10.5	ns
C_{PD}	power dissipation capacitance	C_L = 50 pF; f = 1 MHz; V_I = GND to V_{CC}	[4]	-	17	-	-	-	-	-	pF
74AHCT1G08											
t_{pd}	propagation delay	A and B to Y; see Fig. 4	[1]								
		V_{CC} = 4.5 V to 5.5 V	[3]								
		C_L = 15 pF		-	3.6	6.2	1.0	7.1	1.0	8.0	ns
		C_L = 50 pF		-	5.1	7.9	1.0	9.0	1.0	10.5	ns
C_{PD}	power dissipation capacitance	C_L = 50 pF; f = 1 MHz; V_I = GND to V_{CC}	[4]	-	19	-	-	-	-	-	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).
$P_D = C_{PD} \times V_{CC}^2 \times f_i + \Sigma(C_L \times V_{CC}^2 \times f_o)$ 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 Volts

11.1. Waveform and test circuit

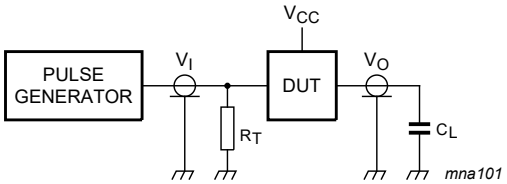


Measurement points are given in Table 9.

Fig. 4. Input (A and B) to output (Y) propagation delays

Table 9. Measurement point

Type	Input		Output
	V_I	V_M	V_M
74AHC1G08	GND to V_{CC}	$0.5V_{CC}$	$0.5V_{CC}$
74AHCT1G08	GND to 3.0 V	1.5 V	$0.5V_{CC}$



Test data is given in Table 8. Definitions for test circuit:

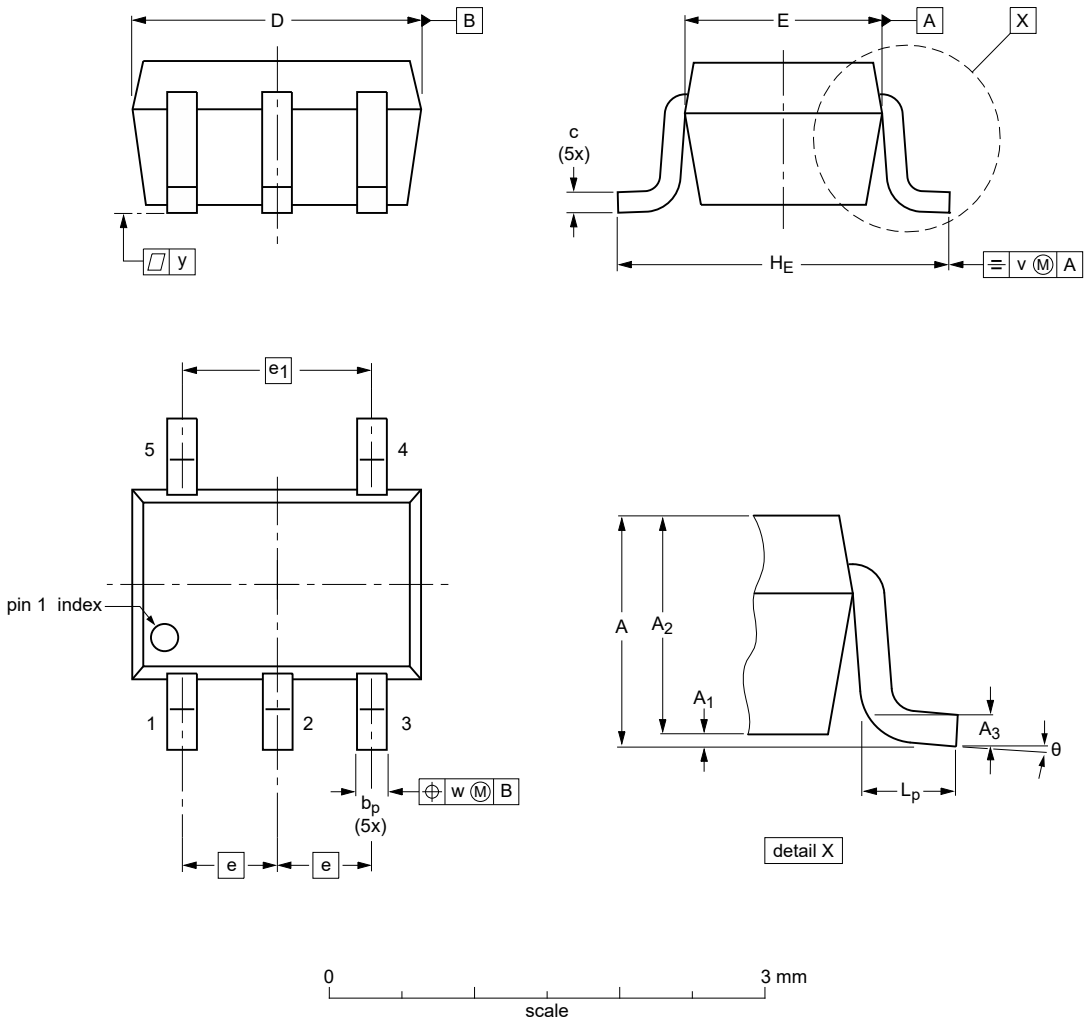
C_L = Load capacitance including jig and probe capacitance;

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

Fig. 5. Test circuit for measuring switching times

12. 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	0.08	1.8	1.15			1.8	0.26				0°

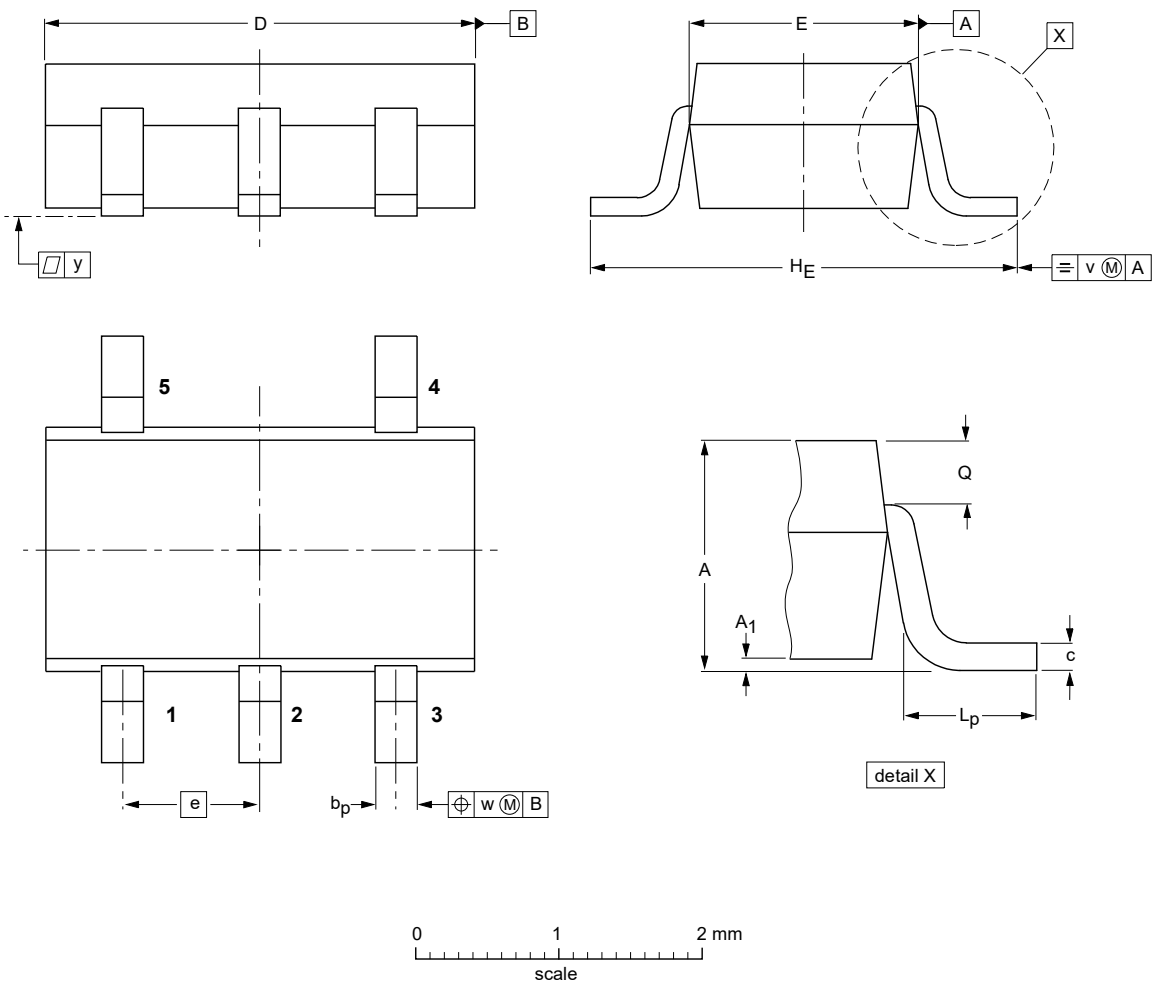
Note
1. Plastic or metal protrusions of 0.2 mm maximum per side are not included.

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. 6. Package outline SOT353-1 (TSSOP5)

Plastic surface-mounted package; 5 leads **SOT753**



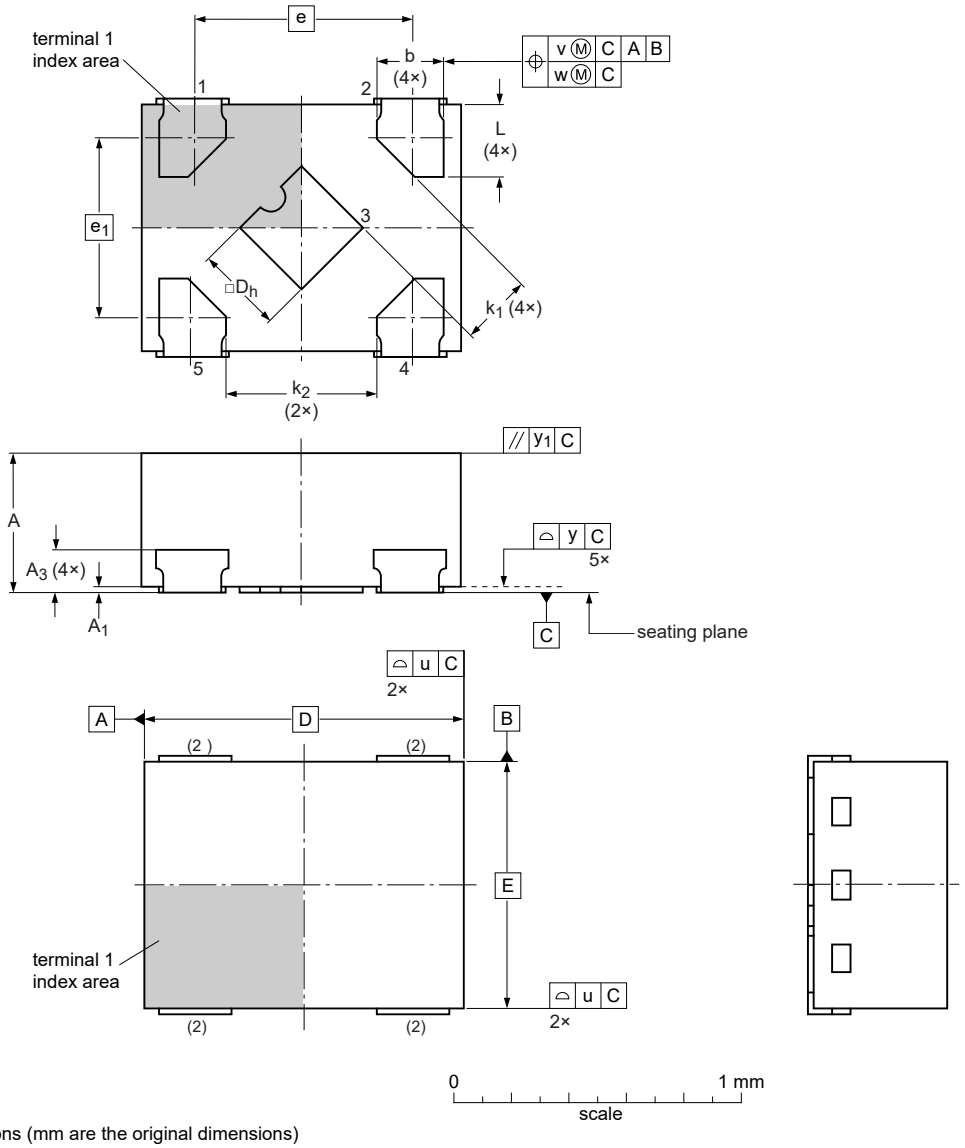
DIMENSIONS (mm are the original dimensions)

UNIT	A	A_1	b_p	c	D	E	e	H_E	L_p	Q	v	w	y
mm	1.1 0.9	0.100 0.013	0.40 0.25	0.26 0.10	3.1 2.7	1.7 1.3	0.95	3.0 2.5	0.6 0.2	0.33 0.23	0.2	0.2	0.1

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	JEITA			
SOT753			SC-74A			~~02-04-16~~ 06-03-16

Fig. 7. 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 × 0.85 × 0.5 mm **SOT8065-1**



Dimensions (mm are the original dimensions)

Unit		A(1)	A1	A3	b	D(1)	Dh	E(1)	e	e1	k1	k2	L	u	v	w	y	y1
mm	max	0.50	0.040	0.135 (typ)	0.28	1.10	0.35	0.85	0.75	0.6			0.30	0.05	0.1	0.05	0.05	0.05
	nom	0.47	0.020		0.23		0.30				0.2	0.45	0.25					
	min	0.44	0.005		0.20		0.27						0.22					

Note:
1. Plastic or metal protrusions per side are not included.
2. Side wettable flanks (SWF), protrusion max. 0.02 mm.

sot8065-1_po

Outline version	References				European projection	Issue date
	IEC	JEDEC	JEITA			
SOT8065-1		MO-340				~~24-07-09~~ 24-08-27

Fig. 8. Package outline SOT8065-1 (XSON5)

13. Abbreviations

Table 10. 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

14. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74AHC_AHCT1G08 v.10.1	20240828	Product data sheet	-	74AHC_AHCT1G08 v.10
Modifications:	• Fig. 8: Added JEDEC reference MO-340 to SOT8065-1 package outline drawing.			
74AHC_AHCT1G08 v.10	20240715	Product data sheet	-	74AHC_AHCT1G08 v.9
Modifications:	• Type number 74AHC1G08GZ (SOT8065-1/XSON5) added.			
74AHC_AHCT1G08 v.9	20230830	Product data sheet	-	74AHC_AHCT1G08 v.8
Modifications:	• Section 2: ESD specification updated according to the latest JEDEC standard.			
74AHC_AHCT1G08 v.8	20220111	Product data sheet	-	74AHC_AHCT1G08 v.7
Modifications:	• 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 1 and Section 2 updated. • Fig. 6: SOT353-1 (TSSOP5) package outline drawing has changed. • Section 8: Derating values for P_{tot} total power dissipation updated.			
74AHC_AHCT1G08 v.7	20141118	Product data sheet	-	74AHC_AHCT1G08 v.6
Modifications:	• Section 4: table note added.			
74AHC_AHCT1G08 v.6	20070629	Product data sheet	-	74AHC_AHCT1G08 v.5
Modifications:	• The format of this data sheet has been redesigned to comply with the new identity guidelines of NXP Semiconductors. • Legal texts have been adapted to the new company name where appropriate. • Package SOT353 changed to SOT353-1 in Section 3 and Section 12. • Quick reference data and Soldering sections removed.			
74AHC_AHCT1G08 v.5	20020606	Product specification	-	74AHC_AHCT1G08 v.4
74AHC_AHCT1G08 v.4	20020221	Product specification	-	74AHC_AHCT1G08 v.3
74AHC_AHCT1G08 v.3	20010209	Product specification	-	74AHC_AHCT1G08 v.2
74AHC_AHCT1G08 v.2	19990127	Product specification	-	74AHC_AHCT1G08_N v.1
74AHC_AHCT1G08_N v.1	19981125	Preliminary specification	-	-

15. 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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