Low-power buffer with open-drain output Rev. 12.1 — 28 August 2024

Product data sheet

1. General description

The 74AUP1G07 is a single buffer with open-drain output.

Schmitt-trigger action at all inputs makes the circuit tolerant of slower input rise and fall times.

This device ensures a very low static and dynamic power consumption across the entire V_{CC} range from 0.8 V to 3.6 V.

This device is fully specified for partial power-down applications using I_{OFF} . The I_{OFF} circuitry disables the output, preventing the damaging backflow current through the device when it is powered down.

2. Features and benefits

- Wide supply voltage range from 0.8 V to 3.6 V
- High noise immunity
- CMOS low power dissipation
- Complies with JEDEC standards:
 - JESD8-12 (0.8 V to 1.3 V)
 - JESD8-11 (0.9 V to 1.65 V)
 - JESD8-7 (1.65 V to 1.95 V)
 - JESD8-5 (2.3 V to 2.7 V)
 - JESD8C (2.7 V to 3.6 V)
- Low static power consumption; I_{CC} = 0.9 μA (maximum)
- Latch-up performance exceeds 100 mA per JESD 78 Class II
- Overvoltage tolerant inputs to 3.6 V
- Low noise overshoot and undershoot < 10 % of V_{CC}
- IOFF circuitry provides partial Power-down mode operation
- Multiple package options
- ESD protection:
 - HBM: ANSI/ESDA/JEDEC JS-001 class 3A exceeds 5000 V
 - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

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3. Ordering information

 Table 1. Ordering information

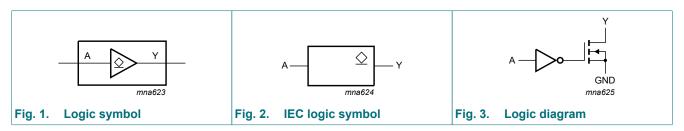
Type number	Package			
	Temperature range	Name	Description	Version
74AUP1G07GW	-40 °C to +125 °C	TSSOP5	plastic thin shrink small outline package; 5 leads; body width 1.25 mm	<u>SOT353-1</u>
74AUP1G07GM	-40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 × 1.45 × 0.5 mm	<u>SOT886</u>
74AUP1G07GN	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 0.9 × 1.0 × 0.35 mm	<u>SOT1115</u>
74AUP1G07GS	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 1.0 × 1.0 × 0.35 mm	<u>SOT1202</u>
74AUP1G07GX	-40 °C to +125 °C	X2SON5	plastic thermal enhanced extremely thin small outline package; no leads; 5 terminals; body 0.8 × 0.8 × 0.32 mm	<u>SOT1226-3</u>
74AUP1G07GX4	-40 °C to +125 °C	X2SON4	plastic thermal enhanced extremely thin small outline package; no leads; 4 terminals; body 0.6 × 0.6 × 0.32 mm	<u>SOT1269-2</u>
74AUP1G07GZ	-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	<u>SOT8065-1</u>

4. Marking

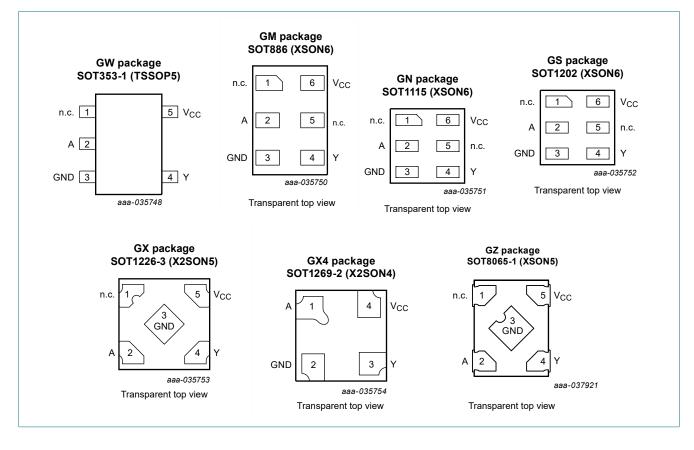
Table 2. Marking	
Type number	Marking code[1]
74AUP1G07GW	pS
74AUP1G07GM	pS
74AUP1G07GN	pS
74AUP1G07GS	pS
74AUP1G07GX	pS
74AUP1G07GX4	pS
74AUP1G07GZ	pS

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

5. Functional diagram



6. Pinning information



6.1. Pinning

6.2. Pin description

Table 3. Pin description

Symbol	Pin	in						
	TSSOP5, XSON5 and X2SON5	XSON6	X2SON4					
n.c.	1	1, 5	-	not connected				
A	2	2	1	data input				
GND	3	3	2	ground (0 V)				
Y	4	4	3	data output				
V _{CC}	5	6	4	supply voltage				

7. Functional description

Table 4. Function table

H = HIGH voltage level; L = LOW voltage level; Z = high-impedance OFF state.

Input	Output
A	Y
L	L
Н	Z

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	+4.6	V
I _{IK}	input clamping current	V ₁ < 0 V		-50	-	mA
VI	input voltage		[1]	-0.5	+4.6	V
I _{OK}	output clamping current	V _O < 0 V		-50	-	mA
Vo	output voltage	Active mode and Power-down mode	[1]	-0.5	+4.6	V
I _O	output current	$V_{O} = 0 V \text{ to } V_{CC}$		-	20	mA
I _{CC}	supply current			-	50	mA
I _{GND}	ground current			-50	-	mA
T _{stg}	storage temperature			-65	+150	°C
P _{tot}	total power dissipation	T _{amb} = -40 °C to +125 °C				
		TSSOP5, XSON6 and X2SON5 package	[2]	-	250	mW
		X2SON4 package	[3]	-	150	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 SOT886 (XSON6) package: P_{tot} derates linearly with 3.3 mW/K above 74 °C. For SOT1115 (XSON6) package: P_{tot} derates linearly with 3.2 mW/K above 71 °C. For SOT1202 (XSON6) package: P_{tot} derates linearly with 3.3 mW/K above 74 °C.

For SOT1226-3 (X2SON5) package: P_{tot} derates linearly with 3.0 mW/K above 67 °C.

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

[3] For SOT1269-2 (X2SON4) package: P_{tot} derates linearly with 1.7 mW/K above 57 °C.

9. Recommended operating conditions

Table 6. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Max	Unit
V _{CC}	supply voltage		0.8	3.6	V
VI	input voltage		0	3.6	V
Vo	output voltage	Active mode and Power-down mode	0	3.6	V
T _{amb}	ambient temperature		-40	+125	°C
Δt/ΔV	input transition rise and fall rate	V _{CC} = 0.8 V to 3.6 V	0	200	ns/V

10. Static characteristics

Table 7. Static characteristics

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

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _{amb} = 2	25 °C					
V _{IH}	HIGH-level input voltage	V _{CC} = 0.8 V	0.70×V _{CC}	-	-	V
		V _{CC} = 0.9 V to 1.95 V	0.65×V _{CC}	-	-	V
		V _{CC} = 2.3 V to 2.7 V	1.6	-	-	V
		V _{CC} = 3.0 V to 3.6 V	2.0	-	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 0.8 V	-	-	0.30×V _{CC}	V
		V _{CC} = 0.9 V to 1.95 V	-	-	0.35×V _{CC}	V
		V _{CC} = 2.3 V to 2.7 V	-	-	0.7	V
		V _{CC} = 3.0 V to 3.6 V	-	-	0.9	V
V _{OL}	LOW-level output voltage	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		$I_{O} = 20 \ \mu A; V_{CC} = 0.8 \ V \ to \ 3.6 \ V$	-	-	0.1	V
		I _O = 1.1 mA; V _{CC} = 1.1 V	-	-	0.3×V _{CC}	V
		I _O = 1.7 mA; V _{CC} = 1.4 V	-	-	0.31	V
		I _O = 1.9 mA; V _{CC} = 1.65 V	-	-	0.31	V
		I _O = 2.3 mA; V _{CC} = 2.3 V	-	-	0.31	V
		I _O = 3.1 mA; V _{CC} = 2.3 V	-	-	0.44	V
		I _O = 2.7 mA; V _{CC} = 3.0 V	-	-	0.31	V
		I _O = 4.0 mA; V _{CC} = 3.0 V	-	-	0.44	V
lı	input leakage current	V_{I} = GND to 3.6 V; V_{CC} = 0 V to 3.6 V	-	-	±0.1	μA
l _{oz}	OFF-state output current	$V_{I} = V_{IH}; V_{O} = 0 V \text{ to } 3.6 V;$ $V_{CC} = 0 V \text{ to } 3.6 V$	-	-	±0.1	μA
I _{OFF}	power-off leakage current	V_{I} or V_{O} = 0 V to 3.6 V; V_{CC} = 0 V	-	-	±0.2	μA
Δl _{OFF}	additional power-off leakage current	$V_1 \text{ or } V_0 = 0 \text{ V to } 3.6 \text{ V}; V_{CC} = 0 \text{ V to } 0.2 \text{ V}$	-	-	±0.2	μA
I _{CC}	supply current	$V_1 = GND \text{ or } V_{CC}; I_0 = 0 \text{ A};$ $V_{CC} = 0.8 \text{ V to } 3.6 \text{ V}$	-	-	0.5	μA
Δl _{CC}	additional supply current	$V_{I} = V_{CC} - 0.6 \text{ V}; I_{O} = 0 \text{ A}; V_{CC} = 3.3 \text{ V}$	-	-	40	μA
CI	input capacitance	V_{CC} = 0 V to 3.6 V; V _I = GND or V _{CC}	-	0.8	-	pF
Co	output capacitance	output enabled; $V_0 = GND$; $V_{CC} = 0 V$	-	1.7	-	pF
		output disabled; V_0 = GND; V_{CC} = 0 V	-	1.1	-	pF
T _{amb} = -	40 °C to +85 °C				I	
V _{IH}	HIGH-level input voltage	V _{CC} = 0.8 V	0.70×V _{CC}	-	-	V
		V _{CC} = 0.9 V to 1.95 V	0.65×V _{CC}	-	-	V
		V _{CC} = 2.3 V to 2.7 V	1.6	-	-	V
		V _{CC} = 3.0 V to 3.6 V	2.0	-	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 0.8 V	-	-	0.30×V _{CC}	V
		V _{CC} = 0.9 V to 1.95 V	-	-	0.35×V _{CC}	V
		V _{CC} = 2.3 V to 2.7 V	-	-	0.7	V
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$	_	-	0.9	V

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V _{OL}	LOW-level output voltage	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		I_{O} = 20 µA; V_{CC} = 0.8 V to 3.6 V	-	-	0.1	V
		I _O = 1.1 mA; V _{CC} = 1.1 V	-	-	0.3×V _{CC}	V
		I _O = 1.7 mA; V _{CC} = 1.4 V	-	-	0.37	V
		I _O = 1.9 mA; V _{CC} = 1.65 V	-	-	0.35	V
		I _O = 2.3 mA; V _{CC} = 2.3 V	-	-	0.33	V
		I _O = 3.1 mA; V _{CC} = 2.3 V	-	-	0.45	V
		I _O = 2.7 mA; V _{CC} = 3.0 V	-	-	0.33	V
		I _O = 4.0 mA; V _{CC} = 3.0 V	-	-	0.45	V
l _l	input leakage current	V_{I} = GND to 3.6 V; V_{CC} = 0 V to 3.6 V	-	-	±0.5	μA
I _{OZ}	OFF-state output current	$V_{I} = V_{IH}; V_{O} = 0 V \text{ to } 3.6 V;$ $V_{CC} = 0 V \text{ to } 3.6 V$	-	-	±0.5	μA
I _{OFF}	power-off leakage current	$V_1 \text{ or } V_0 = 0 \text{ V to } 3.6 \text{ V}; V_{CC} = 0 \text{ V}$	-	-	±0.5	μA
ΔI _{OFF}	additional power-off leakage current	$V_1 \text{ or } V_0 = 0 \text{ V to } 3.6 \text{ V}; V_{CC} = 0 \text{ V to } 0.2 \text{ V}$	-	-	±0.6	μA
I _{CC}	supply current	$V_{I} = GND \text{ or } V_{CC}; I_{O} = 0 \text{ A}; \\ V_{CC} = 0.8 \text{ V to } 3.6 \text{ V}$	-	-	0.9	μA
ΔI _{CC}	additional supply current	$V_{I} = V_{CC} - 0.6 \text{ V}; I_{O} = 0 \text{ A}; V_{CC} = 3.3 \text{ V}$	-	-	50	μA
T _{amb} = -	40 °C to +125 °C	,			1	1
VIH	HIGH-level input voltage	V _{CC} = 0.8 V	0.75×V _{CC}	-	-	V
VIH		V _{CC} = 0.9 V to 1.95 V	0.70×V _{CC}	-	-	V
		V _{CC} = 2.3 V to 2.7 V	1.6	-	-	V
		V _{CC} = 3.0 V to 3.6 V	2.0	-	-	V
VIL	LOW-level input voltage	V _{CC} = 0.8 V	-	-	0.25×V _{CC}	V
		V _{CC} = 0.9 V to 1.95 V	-	-	0.30×V _{CC}	V
		V _{CC} = 2.3 V to 2.7 V	-	-	0.7	V
		V _{CC} = 3.0 V to 3.6 V	-	-	0.9	V
V _{OL}	LOW-level output voltage	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		I_{O} = 20 µA; V_{CC} = 0.8 V to 3.6 V	-	-	0.11	V
		I _O = 1.1 mA; V _{CC} = 1.1 V	-	-	0.33×V _{CC}	V
		I _O = 1.7 mA; V _{CC} = 1.4 V	-	-	0.41	V
		I _O = 1.9 mA; V _{CC} = 1.65 V	-	-	0.39	V
		I _O = 2.3 mA; V _{CC} = 2.3 V	-	-	0.36	V
		I _O = 3.1 mA; V _{CC} = 2.3 V	-	-	0.50	V
		I _O = 2.7 mA; V _{CC} = 3.0 V	-	-	0.36	V
		I _O = 4.0 mA; V _{CC} = 3.0 V	-	-	0.50	V
l _l	input leakage current	V_{I} = GND to 3.6 V; V_{CC} = 0 V to 3.6 V	-	-	±0.75	μA
I _{OZ}	OFF-state output current	$V_{I} = V_{IH}; V_{O} = 0 V \text{ to } 3.6 V;$ $V_{CC} = 0 V \text{ to } 3.6 V$	-	-	±0.75	μA
I _{OFF}	power-off leakage current	V_1 or V_0 = 0 V to 3.6 V; V_{CC} = 0 V	-	-	±0.75	μA
ΔI _{OFF}	additional power-off leakage current	V_{I} or V_{O} = 0 V to 3.6 V; V_{CC} = 0 V to 0.2 V	-	-	±0.75	μA
I _{CC}	supply current		-	-	1.4	μA
ΔI _{CC}	additional supply current	$V_{I} = V_{CC} - 0.6 \text{ V}; I_{O} = 0 \text{ A}; V_{CC} = 3.3 \text{ V}$	-	-	75	μA

11. Dynamic characteristics

Table 8. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 5.

Symbol	Parameter	Conditions		25 °C			°C to 5 °C	-40 °C to +125 °C		Unit
			Min	Typ[1]	Мах	Min	Max	Min	Max	
C _L = 5 p	F									
t _{pd}	propagation	A to Y; see <u>Fig. 4</u> [2]								
	delay	V _{CC} = 0.8 V	-	11.6	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	2.1	4.1	7.5	1.7	9.1	1.7	10.0	ns
		V _{CC} = 1.4 V to 1.6 V	1.6	3.0	5.1	1.3	6.1	1.3	6.7	ns
		V _{CC} = 1.65 V to 1.95 V	1.6	2.7	4.0	1.2	5.0	1.2	5.5	ns
		V _{CC} = 2.3 V to 2.7 V	1.1	2.1	3.2	0.9	4.0	0.9	4.4	ns
		V _{CC} = 3.0 V to 3.6 V	1.4	2.2	2.8	1.1	3.3	1.1	3.6	ns
C _L = 10	pF									
t _{pd}	propagation	A to Y; see <u>Fig. 4</u> [2]								
	delay	V _{CC} = 0.8 V	-	14.7	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	3.0	5.1	9.0	2.4	11.2	2.4	12.3	ns
		V _{CC} = 1.4 V to 1.6 V	2.3	3.8	6.1	2.0	7.4	2.0	8.1	ns
		V _{CC} = 1.65 V to 1.95 V	2.4	3.6	4.8	1.8	6.1	1.8	6.7	ns
		V _{CC} = 2.3 V to 2.7 V	1.7	2.8	3.8	1.3	4.8	1.3	5.3	ns
		V _{CC} = 3.0 V to 3.6 V	2.2	3.1	4.2	1.6	4.5	1.6	5.0	ns
C _L = 15	pF									
t _{pd}	propagation	A to Y; see <u>Fig. 4</u> [2]								
	delay	V _{CC} = 0.8 V	-	17.7	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	3.5	6.1	10.4	3.2	13.1	3.2	14.5	ns
		V _{CC} = 1.4 V to 1.6 V	3.0	4.5	6.8	2.6	8.6	2.6	9.4	ns
		V _{CC} = 1.65 V to 1.95 V	2.8	4.4	6.7	2.2	7.8	2.2	8.6	ns
		V _{CC} = 2.3 V to 2.7 V	2.4	3.4	4.5	1.9	5.3	1.9	5.8	ns
		V _{CC} = 3.0 V to 3.6 V	2.2	4.0	5.7	1.9	6.1	1.9	6.7	ns
C _L = 30	pF									
t _{pd}	propagation	A to Y; see <u>Fig. 4</u> [2]								
	delay	V _{CC} = 0.8 V	-	24.6	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	4.8	9.0	15.6	4.3	18.8	4.3	20.7	ns
		V _{CC} = 1.4 V to 1.6 V	4.1	6.7	9.4	3.7	11.8	3.7	13.0	ns
		V _{CC} = 1.65 V to 1.95 V	3.8	6.8	9.7	3.2	11.0	3.2	12.1	ns
		V _{CC} = 2.3 V to 2.7 V	3.7	5.2	6.7	3.0	7.1	3.0	7.8	ns
		V _{CC} = 3.0 V to 3.6 V	3.6	6.4	9.7	2.8	10.4	2.8	11.4	ns

Symbol	Parameter	arameter Conditions	25 °C		-40 °C to +85 °C		-40 °C to +125 °C		Unit	
		Min	Typ[1]	Max	Min	Max	Min	Max		
C _L = 5 p	F, 10 pF, 15 pF	and 30 pF								
C _{PD}	power	$f_i = 1 \text{ MHz}; V_I = \text{GND to } V_{\text{CC}}$ [3]								
	dissipation capacitance	V _{CC} = 0.8 V	-	0.5	-	-	-	-	-	pF
	capacitance	V _{CC} = 1.1 V to 1.3 V	-	0.6	-	-	-	-	-	pF
		V _{CC} = 1.4 V to 1.6 V	-	0.6	-	-	-	-	-	pF
		V _{CC} = 1.65 V to 1.95 V	-	0.7	-	-	-	-	-	pF
		V_{CC} = 2.3 V to 2.7 V	-	0.9	-	-	-	-	-	pF
		V _{CC} = 3.0 V to 3.6 V	-	1.2	-	-	-	-	-	pF

[1] All typical values are measured at nominal V_{CC} .

[2] t_{pd} is the same as t_{PZL} and t_{PLZ} .

[3] C_{PD} is used to determine the dynamic power dissipation (P_D in μ W).

 $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N$ where:

 f_i = input frequency in MHz;

V_{CC} = supply voltage in V;

N = number of inputs switching.

11.1. Waveforms and test circuit

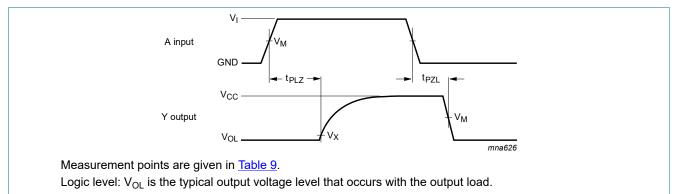


Fig. 4. The data input (A) to output (Y) propagation delays

Table 9. Measurement points

Supply voltage	Input		Output		
V _{cc}	V _M	VI	t _r = t _f	V _M	V _X
0.8 V to 1.6 V	$0.5 \times V_{CC}$	V _{CC}	≤ 3.0 ns	$0.5 \times V_{CC}$	V _{OL} + 0.1 V
1.65 V to 2.7 V	0.5 × V _{CC}	V _{CC}	≤ 3.0 ns	0.5 × V _{CC}	V _{OL} + 0.15 V
3.0 V to 3.6 V	0.5 × V _{CC}	V _{CC}	≤ 3.0 ns	0.5 × V _{CC}	V _{OL} + 0.3 V

Low-power buffer with open-drain output

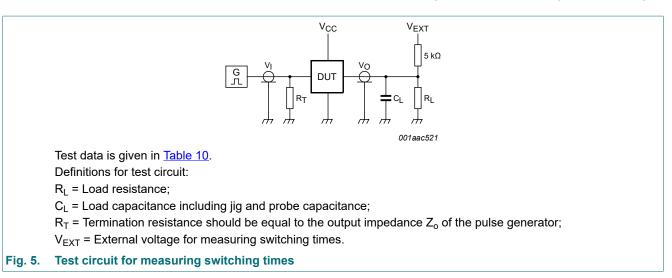


Table 10. Test data

Supply voltage	Load	V _{EXT}			
V _{cc}	C _L R _L [1]		t _{PLH} , t _{PHL} t _{PZH} , t _{PHZ} t _{PZL} , t _{PLZ}		
0.8 V to 3.6 V	5 pF, 10 pF, 15 pF and 30 pF	5 kΩ or 1 MΩ	open	GND	2 × V _{CC}

[1] For measuring enable and disable times, $R_L = 5 k\Omega$.

For measuring propagation delays, setup and hold times and pulse width, R_L = 1 M Ω .

12. Package outline

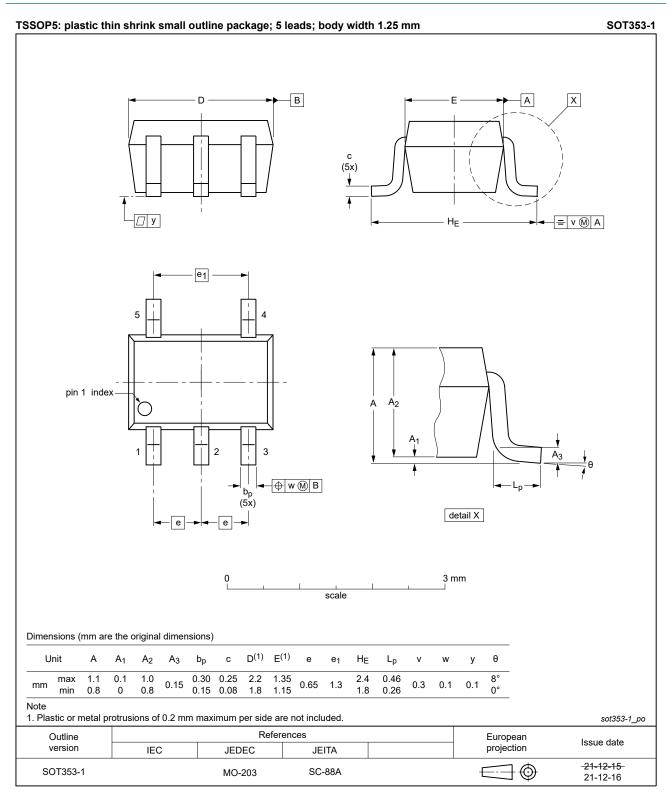


Fig. 6. Package outline SOT353-1 (TSSOP5)

Low-power buffer with open-drain output

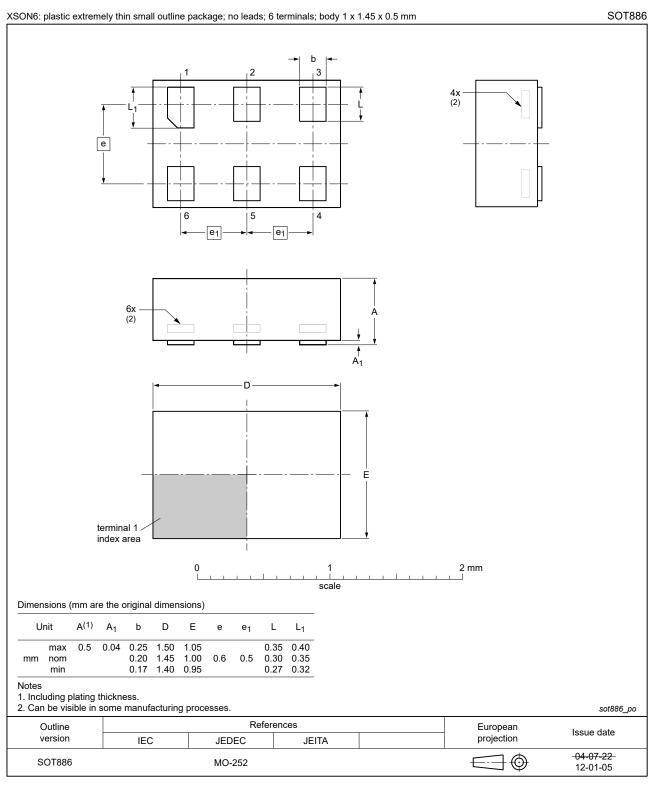
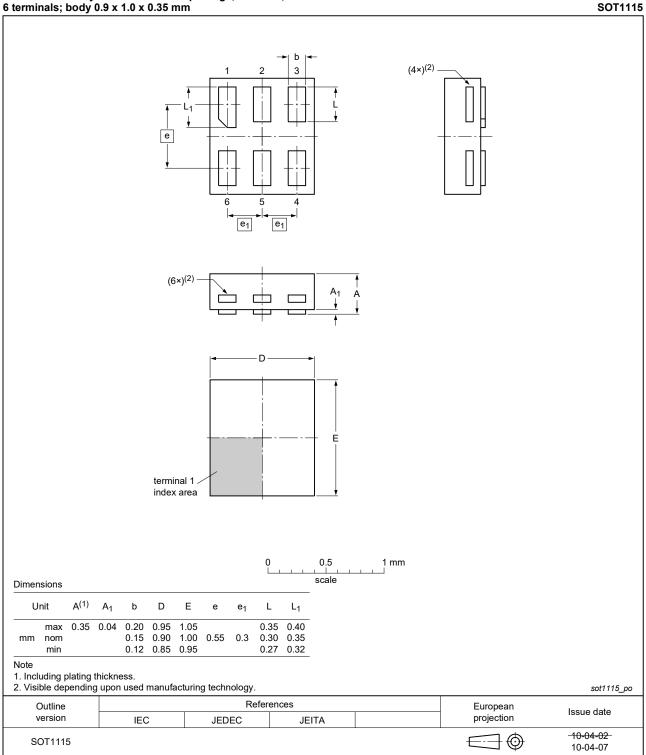


Fig. 7. Package outline SOT886 (XSON6)

Low-power buffer with open-drain output

XSON6: extremely thin small outline package; no leads; 6 terminals; body 0.9 x 1.0 x 0.35 mm



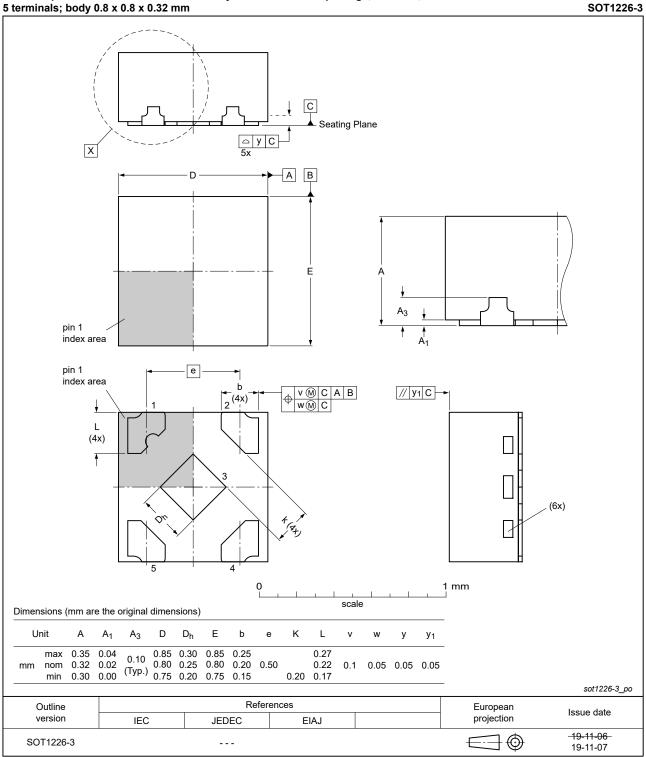


Low-power buffer with open-drain output

SON6: extr terminals;	body	1.0 x	1.0 x	0.35 n	nm											SOT1
				e	↑ L1 ↓		-e ₁ -	2				((4×) ⁽²⁾]]	
				(6×)(2) —					A1 ↓ ↑	† A ↓					
				termina index a				- D								
Dimensions								0		0.5 scale	1 1 1	1 mm 」				
Unit	A ⁽¹⁾	A ₁	b	D	Е	е	e ₁	L	L ₁							
max mm nom min	0.35	0.04	0.15	1.05 1.00 0.95	1.00	0.55	0.35	0.30	0.40 0.35 0.32							
Note I. Including 2. Visible de	plating	thickne	ess.	manufa	octurio	n techr	nology									sot1202_
2. Visible depending upon used manufacturing technology. Outline References								Euro	opean	Issue date						
version			IEC	;		JED	EC		JEI	ΓA				proj	ection	
SOT120	~														70	-10-04-02-



Low-power buffer with open-drain output



X2SON5: plastic thermal enhanced extremely thin small outline package; no leads; 5 terminals; body 0.8 x 0.8 x 0.32 mm

Fig. 10. Package outline SOT1226-3 (X2SON5)

Low-power buffer with open-drain output

X2SON4: plastic thermal enhanced extremely thin small outline package; no leads; 4 terminals; body 0.6 x 0.6 x 0.32 mm

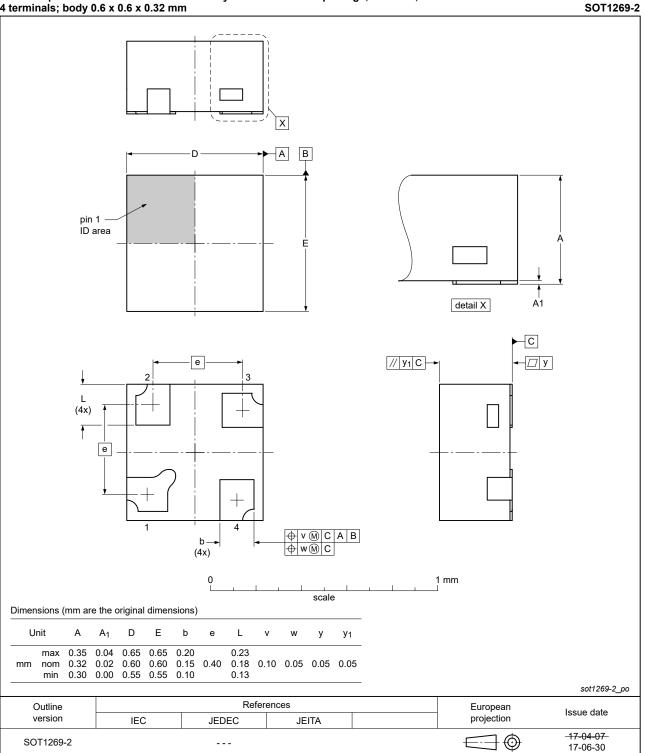
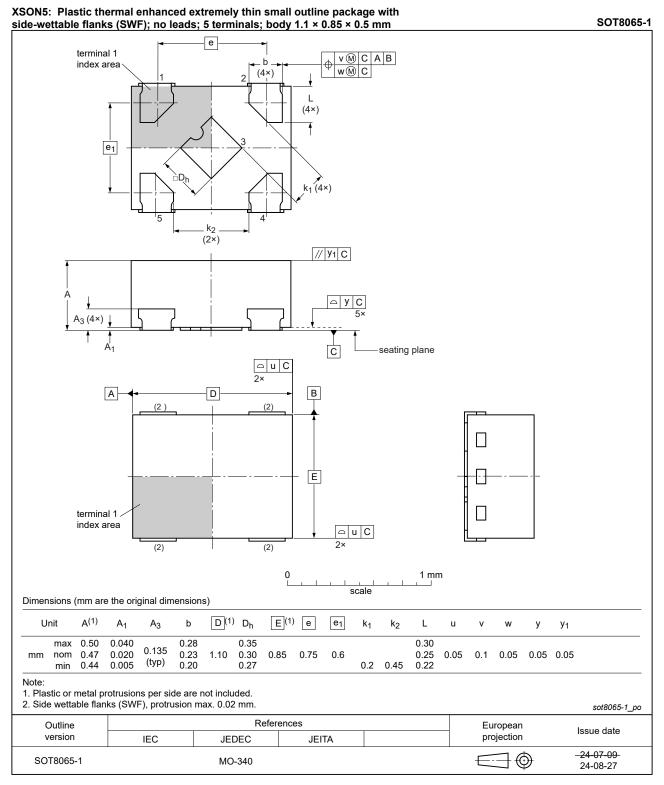


Fig. 11. Package outline SOT1269-2 (X2SON4)

Low-power buffer with open-drain output





13. Abbreviations

Table 11. Abbreviations						
Acronym	Description					
ANSI	American National Standards Institute					
CDM	Charged Device Model					
DUT	Device Under Test					
ESD	ElectroStatic Discharge					
ESDA	ElectroStatic Discharge Association					
НВМ	Human Body Model					
JEDEC	Joint Electron Device Engineering Council					

14. Revision history

Table 12. Revision hi Document ID	Release date	Data sheet status	Change notice	Supersedes				
			Change notice	•				
74AUP1G07 v.12.1	20240828 Product data sheet - 74AUP1G07 v.12							
Modifications:	• Fig. 12: Added JEDEC reference MO-340 to SOT8065-1 package outline drawing.							
74AUP1G07 v.12	20240828	Product data sheet	-	74AUP1G07 v.11.1				
Modifications:	Type number 74AUP1G07GZ (SOT8065-1/XSON5) added.							
74AUP1G07 v.11.1	20230711	Product data sheet	-	74AUP1G07 v.10				
Modifications:	<u>Section 2</u> : ESD specification updated according to the latest JEDEC standard.							
74AUP1G07 v.10	20220113	Product data sheet	-	74AUP1G07 v.9				
Modifications:	 <u>Section 1</u> and <u>Section 2</u> updated. <u>Fig. 6</u>: Package outline drawing of SOT353-1 (TSSOP5) has changed. 							
74AUP1G07 v.9	20210420	Product data sheet	-	74AUP1G07 v.8				
Modifications:	 SOT1226 (X2SON5) package changed to SOT1226-3 (X2SON5) package. Type number 74AUP1G07GF (SOT891) removed. <u>Table 5</u>: Derating values for P_{tot} total power dissipation have been updated. 							
74AUP1G07 v.8	20180608	Product data sheet	-	74AUP1G07 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. Added type number 74AUP1G07GX4 (SOT1269-2) 							
74AUP1G07 v.7	20120716	Product data sheet	-	74AUP1G07 v.6				
Modifications:	Package outline drawing of SOT1226 modified.							
74AUP1G07 v.6	20120412	Product data sheet	-	74AUP1G07 v.5				
Modifications:	 Added type number 74AUP1G07GX (SOT1226) Package outline drawing of SOT886 (Fig. 7) modified. 							
74AUP1G07 v.5	20111115	Product data sheet	-	74AUP1G07 v.4				
Modifications:	Legal pages updated.							
74AUP1G07 v.4	20100902	Product data sheet	-	74AUP1G07 v.3				
74AUP1G07 v.3	20090617	Product data sheet		74AUP1G07 v.2				

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.

 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 <u>https://www.nexperia.com</u>.

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Product data sheet

Contents

1. General description	1
2. Features and benefits	1
3. Ordering information	2
4. Marking	2
5. Functional diagram	2
6. Pinning information	3
6.1. Pinning	3
6.2. Pin description	3
7. Functional description	3
8. Limiting values	4
9. Recommended operating conditions	4
10. Static characteristics	5
11. Dynamic characteristics	7
11.1. Waveforms and test circuit	8
12. Package outline	10
13. Abbreviations	17
14. Revision history	17
15. Legal information	18

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