# Low-power triple buffer with open-drain output Rev. 2 — 5 October 2016 P

Product data sheet

#### **General description** 1.

The 74AUP3G07 is a triple non-inverting buffer with open-drain output. The output of the device is an open drain and can be connected to other open-drain outputs to implement active-LOW wired-OR or active-HIGH wired-AND functions.

Schmitt-trigger action at all inputs makes the circuit tolerant to slower input rise and fall times across the entire  $V_{CC}$  range from 0.8 V to 3.6 V.

This device ensures a very low static and dynamic power consumption across the entire V<sub>CC</sub> range from 0.8 V to 3.6 V.

This device is fully specified for partial power-down applications using I<sub>OFF</sub>. The I<sub>OFF</sub> 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
- Complies with JEDEC standards:
  - JESD8-12 (0.8 V to 1.3 V)
  - JESD8-11 (0.9 V to 1.65 V)
  - JESD8-7 (1.2 V to 1.95 V)
  - JESD8-5 (1.8 V to 2.7 V)
  - JESD8-B (2.7 V to 3.6 V)
- ESD protection:
  - HBM JESD22-A114F Class 3A exceeds 5000 V
  - MM JESD22-A115-A exceeds 200 V
  - CDM JESD22-C101E exceeds 1000 V
- Low static power consumption;  $I_{CC} = 0.9 \,\mu A$  (maximum)
- Latch-up performance exceeds 100 mA per JESD 78B Class II
- Inputs accept voltages up to 3.6 V
- Low noise overshoot and undershoot < 10 % of V<sub>CC</sub>
- I<sub>OFF</sub> circuitry provides partial Power-down mode operation
- Multiple package options
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

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## 3. Ordering information

Table 1.	Ordering	information
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Type number	Package							
	Temperature range	Name	Description	Version				
74AUP3G07DC	–40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads; body width 2.3 mm	SOT765-1				
74AUP3G07GT	–40 °C to +125 °C	XSON8	plastic extremely thin small outline package; no leads; 8 terminals; body 1 $\times$ 1.95 $\times$ 0.5 mm	SOT833-1				
74AUP3G07GM	–40 °C to +125 °C	XQFN8	plastic, extremely thin quad flat package; no leads; 8 terminals; body $1.6 \times 1.6 \times 0.5$ mm	SOT902-2				
74AUP3G07GN	–40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body $1.2 \times 1.0 \times 0.35$ mm	SOT1116				
74AUP3G07GS	–40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body $1.35 \times 1.0 \times 0.35$ mm	SOT1203				

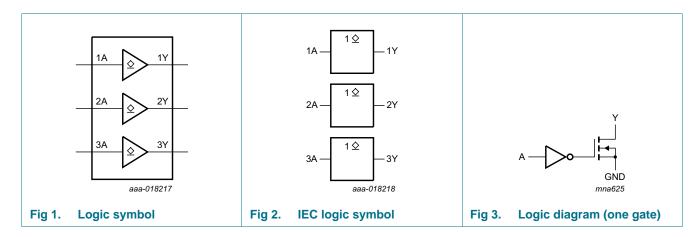
## 4. Marking

### Table 2. Marking codes

Type number	Marking code <sup>[1]</sup>
74AUP3G07DC	p07
74AUP3G07GT	p07
74AUP3G07GM	p07
74AUP3G07GN	p7
74AUP3G07GS	p7

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

## 5. Functional diagram



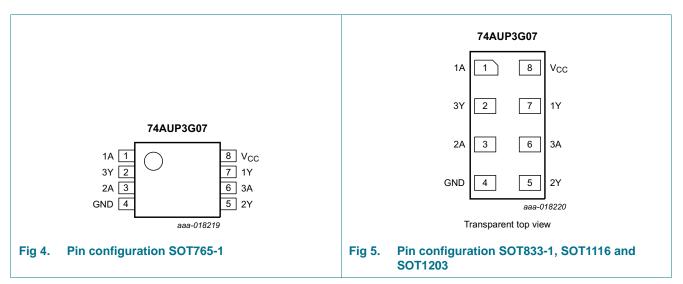
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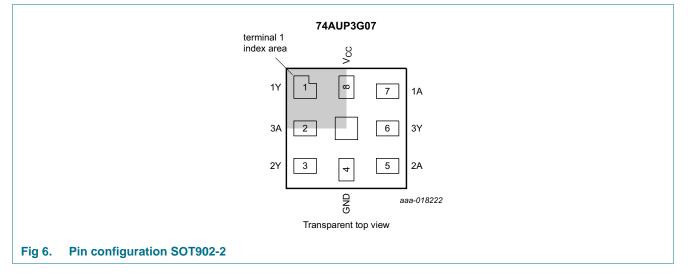
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Low-power triple buffer with open-drain output

## 6. Pinning information

### 6.1 Pinning





### 6.2 Pin description

### Table 3. Pin description

Symbol	Pin	Description	
	SOT765-1, SOT833-1, SOT1116 and SOT1203 SOT		
1A, 2A, 3A	1, 3, 6	7, 5, 2	data input
1Y, 2Y, 3Y	7, 5, 2	1, 3, 6	data output
GND	4	4	ground (0 V)
V <sub>CC</sub>	8	8	supply voltage

74AUP3G07 Product data sheet

## 7. Functional description

#### Table 4.Function table<sup>[1]</sup>

Input nA	Output nY
L	L
Н	Z

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

## 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 <sub>CC</sub>	supply voltage		-0.5	+4.6	V
I <sub>IK</sub>	input clamping current	V <sub>1</sub> < 0 V	-50	-	mA
VI	input voltage	[1]	-0.5	+4.6	V
I <sub>OK</sub>	output clamping current	V <sub>O</sub> < 0 V	-50	-	mA
Vo	output voltage	Active mode and Power-down mode [1]	-0.5	+4.6	V
I <sub>O</sub>	output current	$V_{O} = 0 V$ to $V_{CC}$	-	20	mA
I <sub>CC</sub>	supply current		-	50	mA
I <sub>GND</sub>	ground current		-50	-	mA
T <sub>stg</sub>	storage temperature		-65	+150	°C
P <sub>tot</sub>	total power dissipation	$T_{amb} = -40 \text{ °C to } +125 \text{ °C}$ [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 VSSOP8 packages: above 110 °C, the value of P<sub>tot</sub> derates linearly with 8.0 mW/K.

For XSON8 and XQFN8 packages: above 118 °C, the value of Ptot derates linearly with 7.8 mW/K.

## 9. Recommended operating conditions

#### Table 6. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Max	Unit
V <sub>CC</sub>	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 <sub>amb</sub>	ambient temperature		-40	+125	°C
$\Delta t / \Delta V$	input transition rise and fall rate	V <sub>CC</sub> = 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	Мах	Unit
T <sub>amb</sub> = 2	5 °C					
VIH	HIGH-level input voltage	V <sub>CC</sub> = 0.8 V	$0.70\times V_{CC}$	-	-	V
		V <sub>CC</sub> = 0.9 V to 1.95 V	$0.65 \times V_{CC}$	-	-	V
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	1.6	-	-	V
		V <sub>CC</sub> = 3.0 V to 3.6 V	2.0	-	-	V
VIL	LOW-level input voltage	V <sub>CC</sub> = 0.8 V	-	-	$0.30\times V_{CC}$	V
		V <sub>CC</sub> = 0.9 V to 1.95 V	-	-	$0.35\times V_{CC}$	V
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	-	-	0.7	V
		V <sub>CC</sub> = 3.0 V to 3.6 V	-	-	0.9	V
V <sub>OL</sub>	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 <sub>O</sub> = 1.1 mA; V <sub>CC</sub> = 1.1 V	-	-	$0.3\times V_{CC}$	V
		I <sub>O</sub> = 1.7 mA; V <sub>CC</sub> = 1.4 V	-	-	0.31	V
		I <sub>O</sub> = 1.9 mA; V <sub>CC</sub> = 1.65 V	-	-	0.31	V
		$I_{O}$ = 2.3 mA; $V_{CC}$ = 2.3 V	-	-	0.31	V
		I <sub>O</sub> = 3.1 mA; V <sub>CC</sub> = 2.3 V	-	-	0.44	V
		$I_0 = 2.7 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.31	V
		$I_0 = 4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.44	V
I <sub>I</sub>	input leakage current	$V_I = GND$ to 3.6 V; $V_{CC} = 0$ V to 3.6 V	-	-	±0.1	μA
I <sub>OZ</sub>	OFF-state output current	$V_{\rm I}$ = $V_{\rm IH};$ $V_{\rm O}$ = 0 V to 3.6 V; $V_{\rm CC}$ = 0 V to 3.6 V	-	-	±0.1	μΑ
I <sub>OFF</sub>	power-off leakage current	$V_{I}$ or $V_{O}$ = 0 V to 3.6 V; $V_{CC}$ = 0 V	-	-	±0.2	μA
$\Delta I_{OFF}$	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	μΑ
I <sub>CC</sub>	supply current	$\label{eq:VI} \begin{array}{l} V_{I} = GND \text{ or } V_{CC};  I_{O} = 0 \; A; \\ V_{CC} = 0.8 \; V \; to \; 3.6 \; V \end{array}$	-	-	0.5	μA
$\Delta I_{CC}$	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 $V_{CC}$	-	0.7	-	pF
Co	output capacitance	$V_{O} = GND; V_{CC} = 0 V$	-	0.9	-	pF
T <sub>amb</sub> = -	40 °C to +85 °C					
VIH	HIGH-level input voltage	V <sub>CC</sub> = 0.8 V	$0.70 \times V_{CC}$	-	-	V
		V <sub>CC</sub> = 0.9 V to 1.95 V	$0.65 \times V_{CC}$	-	-	V
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	1.6	-	-	V
		V <sub>CC</sub> = 3.0 V to 3.6 V	2.0	-	-	V
V <sub>IL</sub>	LOW-level input voltage	$V_{CC} = 0.8 V$	-	-	$0.30  imes V_{CC}$	V
		V <sub>CC</sub> = 0.9 V to 1.95 V	-	-	$0.35 \times V_{CC}$	V
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	-	-	0.7	V
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$	-	-	0.9	V

### Low-power triple buffer with open-drain output

### Table 7. Static characteristics ...continued

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

Symbol	Parameter	Conditions	Min	Тур	Мах	Unit
V <sub>OL</sub>	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 <sub>O</sub> = 1.1 mA; V <sub>CC</sub> = 1.1 V	-	-	$0.3\times V_{CC}$	V
		I <sub>O</sub> = 1.7 mA; V <sub>CC</sub> = 1.4 V	-	-	0.37	V
		I <sub>O</sub> = 1.9 mA; V <sub>CC</sub> = 1.65 V	-	-	0.35	V
		$I_0 = 2.3 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.33	V
		I <sub>O</sub> = 3.1 mA; V <sub>CC</sub> = 2.3 V	-	-	0.45	V
		I <sub>O</sub> = 2.7 mA; V <sub>CC</sub> = 3.0 V	-	-	0.33	V
		I <sub>O</sub> = 4.0 mA; V <sub>CC</sub> = 3.0 V	-	-	0.45	V
I <sub>I</sub>	input leakage current	$V_I = GND$ to 3.6 V; $V_{CC} = 0$ V to 3.6 V	-	-	±0.5	μA
I <sub>OZ</sub>	OFF-state output current	$V_{I} = V_{IH}$ ; $V_{O} = 0$ V to 3.6 V; $V_{CC} = 0$ V to 3.6 V	-	-	±0.5	μA
I <sub>OFF</sub>	power-off leakage current	$V_{I}$ or $V_{O} = 0$ V to 3.6 V; $V_{CC} = 0$ V	-	-	±0.5	μA
$\Delta I_{OFF}$	additional power-off leakage current		-	-	±0.6	μA
I <sub>CC</sub>	supply current	$\label{eq:VI} \begin{array}{l} V_{I} = GND \text{ or } V_{CC};  I_{O} = 0 \; A; \\ V_{CC} = 0.8 \; V \; to \; 3.6 \; V \end{array}$	-	-	0.9	μA
Δl <sub>CC</sub>	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 <sub>amb</sub> =	40 °C to +125 °C					
V <sub>IH</sub>	HIGH-level input voltage	V <sub>CC</sub> = 0.8 V	$0.75  imes V_{CC}$	-	-	V
		V <sub>CC</sub> = 0.9 V to 1.95 V	$0.70 \times V_{CC}$	-	-	V
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	1.6	-	-	V
		V <sub>CC</sub> = 3.0 V to 3.6 V	2.0	-	-	V
V <sub>IL</sub>	LOW-level input voltage	V <sub>CC</sub> = 0.8 V	-	-	$0.25\times V_{CC}$	V
		V <sub>CC</sub> = 0.9 V to 1.95 V	-	-	$0.30\times V_{CC}$	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
V <sub>OL</sub>	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	-	-	0.11	V
		I <sub>O</sub> = 1.1 mA; V <sub>CC</sub> = 1.1 V	-	-	$0.33 \times V_{CC}$	V
		I <sub>O</sub> = 1.7 mA; V <sub>CC</sub> = 1.4 V	-	-	0.41	V
		I <sub>O</sub> = 1.9 mA; V <sub>CC</sub> = 1.65 V	-	-	0.39	V
		$I_{O}$ = 2.3 mA; $V_{CC}$ = 2.3 V	-	-	0.36	V
		I <sub>O</sub> = 3.1 mA; V <sub>CC</sub> = 2.3 V	-	-	0.50	V
		$I_0 = 2.7 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.36	V
		$I_{O} = 4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.50	V
l	input leakage current	$V_I = GND$ to 3.6 V; $V_{CC} = 0$ V to 3.6 V	-	-	±0.75	μA
l <sub>oz</sub>	OFF-state output current	$V_{I} = V_{IH}$ ; $V_{O} = 0$ V to 3.6 V; $V_{CC} = 0$ V to 3.6 V	-	-	±0.75	μΑ
I <sub>OFF</sub>	power-off leakage current	$V_{I}$ or $V_{O} = 0$ V to 3.6 V; $V_{CC} = 0$ V	-	-	±0.75	μA

### Low-power triple buffer with open-drain output

At recomi	At recommended operating conditions; voltages are referenced to $GND$ (ground = 0 V).								
Symbol	Parameter	Conditions	Min	Тур	Max	Unit			
$\Delta I_{OFF}$	additional power-off leakage current		-	-	±0.75	μA			
I <sub>CC</sub>	supply current	$\label{eq:VI} \begin{array}{l} V_{I} = GND \text{ or } V_{CC}; \ I_{O} = 0 \ A; \\ V_{CC} = 0.8 \ V \ \text{to} \ 3.6 \ V \end{array}$	-	-	1.4	μA			
$\Delta I_{CC}$	additional supply current	$V_{I} = V_{CC} - 0.6 \text{ V}; I_{O} = 0 \text{ A}; V_{CC} = 3.3 \text{ V}$	-	-	75	μA			

#### Table 7. Static characteristics ...continued

## **11. Dynamic characteristics**

#### Table 8. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit, see Figure 8.

Symbol	Parameter	Conditions		25 °C		-4	0 °C to +	125 °C	Unit
			Min	Typ[1]	Max	Min	Max (85 °C)	Max (125 °C)	
C <sub>L</sub> = 5 p	F			·					
t <sub>pd</sub>	propagation delay	nA to nY; see Figure 7 [2]							
		$V_{CC} = 0.8 V$	-	11.6	-	-	-	-	ns
		$V_{CC} = 1.1 \text{ V to } 1.3 \text{ V}$	2.1	4.1	7.5	1.7	9.1	10.0	ns
		$V_{CC} = 1.4 \text{ V to } 1.6 \text{ V}$	1.6	3.0	5.1	1.3	6.1	6.7	ns
		$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$	1.6	2.7	4.0	1.2	5.0	5.5	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	1.1	2.1	3.2	0.9	4.0	4.4	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$	1.4	2.2	2.8	1.1	3.3	3.6	ns
C <sub>L</sub> = 10	pF	1		1	1		1		
t <sub>pd</sub>	propagation delay	nA to nY; see Figure 7 [2]							
		V <sub>CC</sub> = 0.8 V	-	14.7	-	-	-	-	ns
		$V_{CC} = 1.1 \text{ V to } 1.3 \text{ V}$	3.0	5.1	9.0	2.4	11.2	12.3	ns
		$V_{CC} = 1.4 \text{ V to } 1.6 \text{ V}$	2.3	3.8	6.1	2.0	7.4	8.1	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	2.4	3.6	4.8	1.8	6.1	6.7	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	1.7	2.8	3.8	1.3	4.8	5.3	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$	2.2	3.1	4.2	1.6	4.5	5.0	ns
C <sub>L</sub> = 15	pF								
t <sub>pd</sub>	propagation delay	nA to nY; see Figure 7 [2]							
-		V <sub>CC</sub> = 0.8 V	-	17.7	-	-	-	-	ns
		$V_{CC} = 1.1 \text{ V to } 1.3 \text{ V}$	3.5	6.1	10.4	3.2	13.1	14.5	ns
		$V_{CC} = 1.4 \text{ V to } 1.6 \text{ V}$	3.0	4.5	6.8	2.6	8.6	9.4	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	2.8	4.4	6.7	2.2	7.8	8.6	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	2.4	3.4	4.5	1.9	5.3	5.8	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$	2.2	4.0	5.7	1.9	6.1	6.7	ns

74AUP3G07 Product data sheet

### Low-power triple buffer with open-drain output

Symbol	Parameter	Conditions		25 °C		-4	0 °C to +	125 °C	Unit
			Min	Typ <mark>[1]</mark>	Max	Min	Max (85 °C)	Max (125 °C)	-
C <sub>L</sub> = 30	ρF					•		1	-1
t <sub>pd</sub>	propagation delay	nA to nY; see Figure 7 [2]							
		V <sub>CC</sub> = 0.8 V	-	26.7	-	-	-	-	ns
		V <sub>CC</sub> = 1.1 V to 1.3 V	4.8	9.0	15.6	4.3	18.8	20.7	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	4.1	6.7	9.4	3.7	11.8	13.0	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	3.8	6.8	9.7	3.2	11.0	12.1	ns
		$V_{CC}$ = 2.3 V to 2.7 V	3.7	5.2	6.7	3.0	7.1	7.8	ns
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$	3.6	6.4	9.7	2.8	10.4	11.4	ns
C <sub>L</sub> = 5 p	F, 10 pF, 15 pF and	30 pF							
C <sub>PD</sub>	power dissipation	$f_i = 1 \text{ MHz}; V_1 = \text{GND to } V_{\text{CC}}$ [3][4]							
	capacitance	V <sub>CC</sub> = 0.8 V	-	0.5	-	-	-	-	pF
		V <sub>CC</sub> = 1.1 V to 1.3 V	-	0.6	-	-	-	-	pF
		V <sub>CC</sub> = 1.4 V to 1.6 V	-	0.6	-	-	-	-	pF
		$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$	-	0.7	-	-	-	-	pF
		$V_{CC}$ = 2.3 V to 2.7 V	-	0.9	-	-	-	-	pF
		V <sub>CC</sub> = 3.0 V to 3.6 V	-	1.2	-	-	-	-	pF

#### Table 8. Dynamic characteristics ...continued

Voltages are referenced to GND (ground = 0 V); for test circuit, see <u>Figure 8</u>.

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

 $\label{eq:tpd} \ensuremath{\left[2\right]} \quad t_{pd} \mbox{ is the same as } t_{PZL} \mbox{ and } t_{PLZ}.$ 

[3] All specified values are the average typical values over all stated loads.

[4]  $C_{PD}$  is used to determine the dynamic power dissipation (P<sub>D</sub> in  $\mu$ W).

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

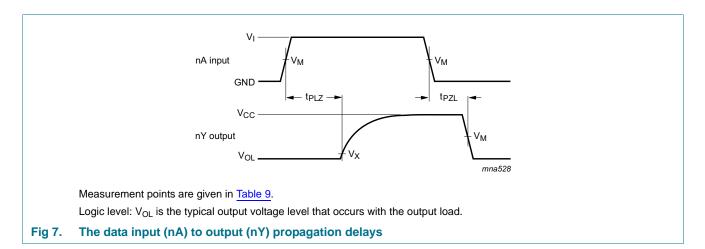
 $f_i$  = input frequency in MHz;

 $V_{CC}$  = supply voltage in V;

N = number of inputs switching.

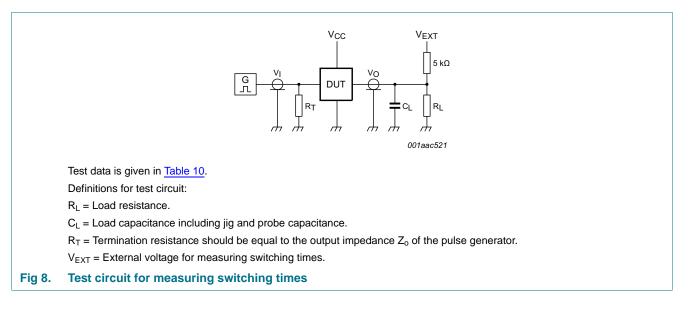
### Low-power triple buffer with open-drain output

## 12. Waveforms



#### Table 9. Measurement points

Supply voltage	Input	Output	Output		
V <sub>cc</sub>	V <sub>M</sub>	V <sub>M</sub>	V <sub>X</sub>		
0.8 V to 1.6 V	$0.5  imes V_{CC}$	$0.5  imes V_{CC}$	V <sub>OL</sub> + 0.1 V		
1.65 V to 2.7 V	$0.5  imes V_{CC}$	$0.5  imes V_{CC}$	V <sub>OL</sub> + 0.15 V		
3.0 V to 3.6 V	$0.5\times V_{CC}$	$0.5  imes V_{CC}$	V <sub>OL</sub> + 0.3 V		



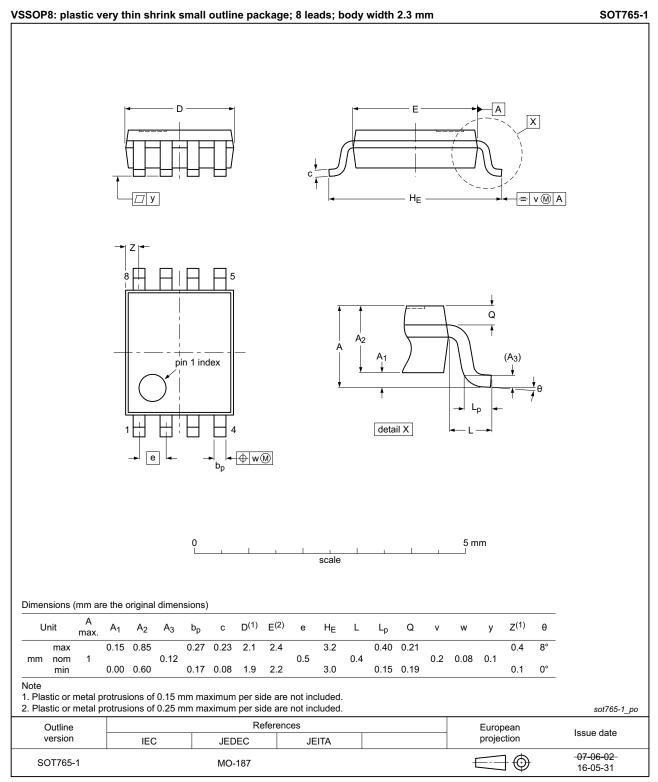
#### Table 10. Test data

Supply voltage	e Input		Load		V <sub>EXT</sub>		
V <sub>cc</sub>	VI	t <sub>r</sub> , t <sub>f</sub>	CL	R <sub>L</sub> [1]	t <sub>PLH</sub> , t <sub>PHL</sub>	t <sub>PZH</sub> , t <sub>PHZ</sub>	t <sub>PZL</sub> , t <sub>PLZ</sub>
0.8 V to 3.6 V	V <sub>CC</sub>	≤ 3 ns	5 pF, 10 pF, 15 pF and 30 pF	5 k $\Omega$ or 1 M $\Omega$	open	GND	$2\times V_{CC}$

[1] For measuring enable and disable times  $R_L = 5 k\Omega$ , for measuring propagation delays, set-up and hold times and pulse width  $R_L = 1 M\Omega$ .

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## 13. Package outline



### Fig 9. Package outline SOT765-1 (VSSOP8)

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#### Low-power triple buffer with open-drain output

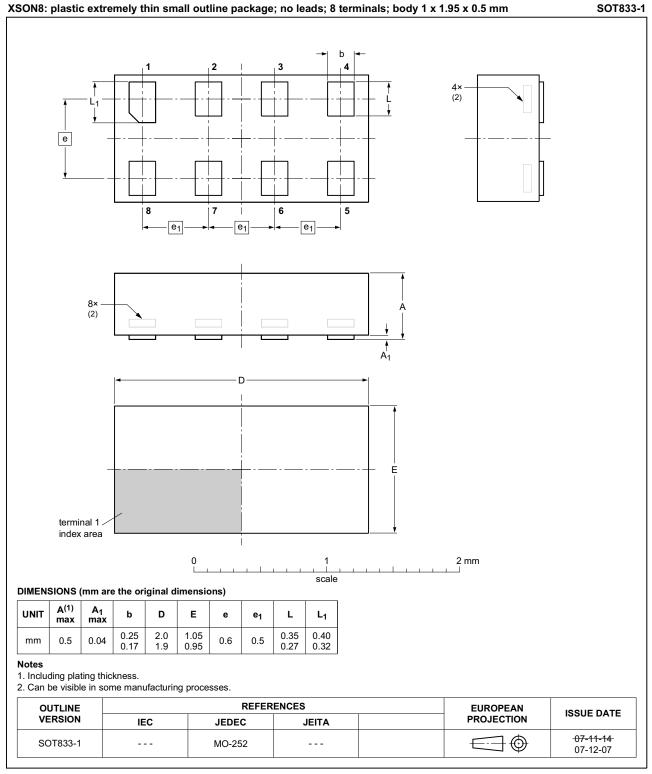
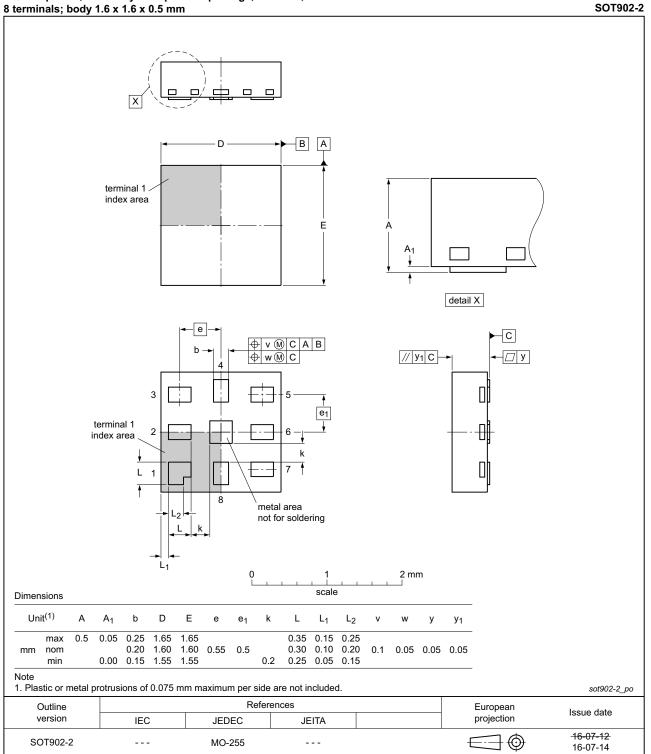


Fig 10. Package outline SOT833-1 (XSON8)

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#### Low-power triple buffer with open-drain output

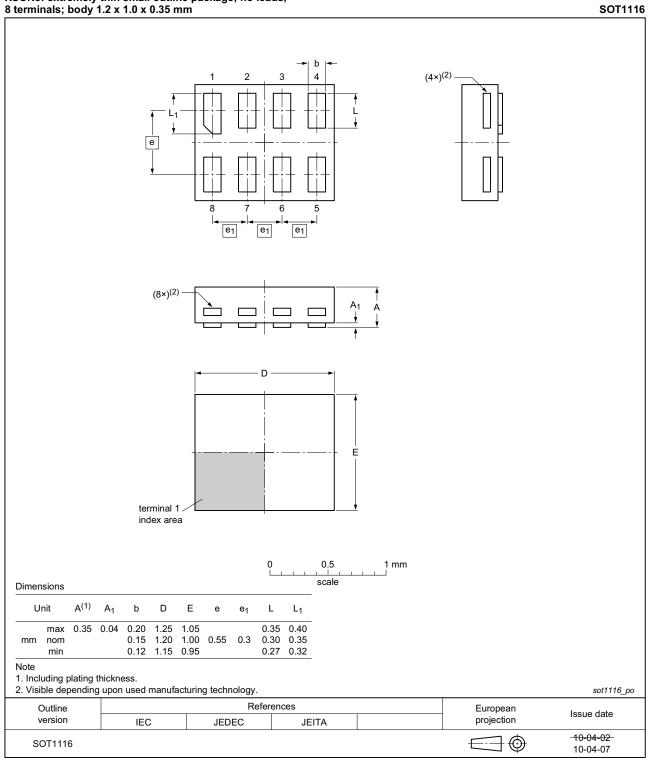


XQFN8: plastic, extremely thin quad flat package; no leads; 8 terminals; body 1.6 x 1.6 x 0.5 mm

Fig 11. Package outline SOT902-2 (XQFN8)

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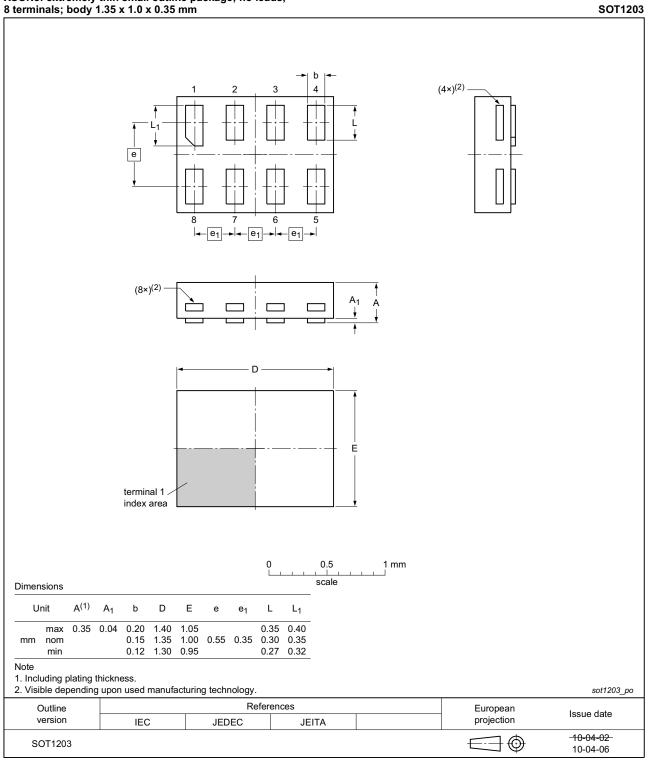


## XSON8: extremely thin small outline package; no leads; 8 terminals; body 1.2 x 1.0 x 0.35 mm

Fig 12. Package outline SOT1116 (XSON8)

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## XSON8: extremely thin small outline package; no leads; 8 terminals; body 1.35 x 1.0 x 0.35 mm

Fig 13. Package outline SOT1203 (XSON8)

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## 14. Abbreviations

Table 11. Abbreviations			
Acronym	Description		
CDM	Charged Device Model		
DUT	Device Under Test		
ESD	ElectroStatic Discharge		
HBM	Human Body Model		
ММ	Machine Model		

## **15. Revision history**

### Table 12.Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74AUP3G07 v.2	20161005	Product data sheet	-	74AUP3G07 v.1
Modifications:	Type numbers	s 74AUP3G07GD and 74AUP3	G07GF removed.	
74AUP3G07 v.1	20150608	Product data sheet	-	-

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Document status[1][2]	Product status <sup>[3]</sup>	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.

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### Low-power triple buffer with open-drain output

## **18. 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 4
8	Limiting values 4
9	Recommended operating conditions 4
10	Static characteristics 5
11	Dynamic characteristics 7
12	Waveforms
13	Package outline 10
14	Abbreviations
15	Revision history 15
16	Legal information
16.1	Data sheet status 16
16.2	Definitions
16.3	Disclaimers
16.4	Trademarks 17
17	Contact information 17
18	Contents 18

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