

74AUP1G132

Low-power 2-input NAND Schmitt trigger

Rev. 01 — 20 October 2006

Product data sheet

1. General description

The 74AUP1G132 is a high-performance, low-power, low-voltage, Si-gate CMOS device, superior to most advanced CMOS compatible TTL families.

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.

The 74AUP1G132 provides the single 2-input NAND Schmitt trigger function which accept standard input signals. They are capable of transforming slowly changing input signals into sharply defined, jitter-free output signals.

The inputs switch at different points for positive and negative-going signals. The difference between the positive voltage V_{T+} and the negative voltage V_{T-} is defined as the input hysteresis voltage V_H .

2. Features

- Wide supply voltage range from 0.8 V to 3.6 V
- High noise immunity
- ESD protection:
 - ◆ HBM JESD22-A114-D Class 3A. Exceeds 5000 V
 - ◆ MM JESD22-A115-A exceeds 200 V
 - ◆ CDM JESD22-C101-C exceeds 1000 V
- Low static power consumption; $I_{CC} = 0.9 \mu A$ (maximum)
- Latch-up performance exceeds 100 mA per JESD 78 Class II
- Inputs accept voltages up to 3.6 V
- Low noise overshoot and undershoot < 10 % of V_{CC}
- I_{OFF} circuitry provides partial Power-down mode operation
- Multiple package options
- Specified from $-40^{\circ}C$ to $+85^{\circ}C$ and $-40^{\circ}C$ to $+125^{\circ}C$

3. Applications

- Wave and pulse shaper
- Astable multivibrator
- Monostable multivibrator.

4. Ordering information

Table 1. Ordering information

Type number	Package				Version
	Temperature range	Name	Description		
74AUP1G132GW	−40 °C to +125 °C	TSSOP5	plastic thin shrink small outline package; 5 leads; body width 1.25 mm		SOT353-1
74AUP1G132GM	−40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 × 1.45 × 0.5 mm		SOT886
74AUP1G132GF	−40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 × 1 × 0.5 mm		SOT891

5. Marking

Table 2. Marking

Type number	Marking code
74AUP1G132GW	aE
74AUP1G132GM	aE
74AUP1G132GF	aE

6. Functional diagram

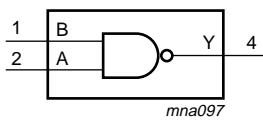


Fig 1. Logic symbol

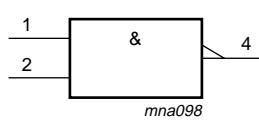


Fig 2. IEC logic symbol

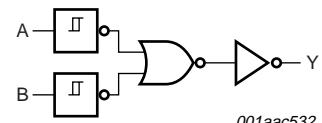


Fig 3. Logic diagram

7. Pinning information

7.1 Pinning

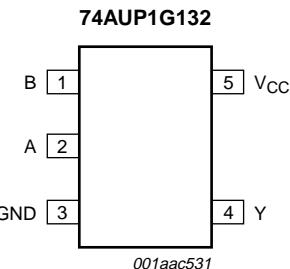


Fig 4. Pin configuration SOT353-1 (TSSOP5)

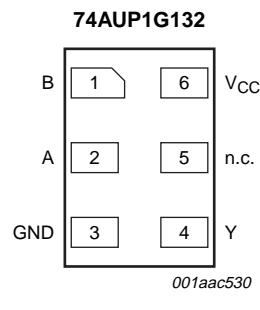


Fig 5. Pin configuration SOT886 (XSON6)

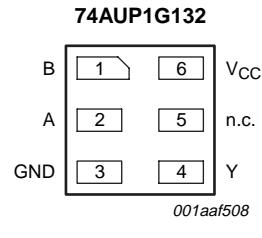


Fig 6. Pin configuration SOT891 (XSON6)

7.2 Pin description

Table 3. Pin description

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

8. Functional description

Table 4. Function table^[1]

Input		Output
A	B	Y
L	L	H
L	H	H
H	L	H
H	H	L

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

9. 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 _I < 0 V	-	-50	mA
V _I	input voltage		^[1] -0.5	+4.6	V
I _{OK}	output clamping current	V _O < 0 V	-	-50	mA
V _O	output voltage	Active mode and Power-down mode	^[1] -0.5	+4.6	V
I _O	output current	V _O = 0 V 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	^[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 TSSOP5 packages: above 87.5 °C the value of P_{tot} derates linearly with 4.0 mW/K.

For XSON6 packages: above 45 °C the value of P_{tot} derates linearly with 2.4 mW/K.

10. Recommended operating conditions

Table 6. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Max	Unit
V _{CC}	supply voltage		0.8	3.6	V
V _I	input voltage		0	3.6	V
V _O	output voltage	Active mode	0	V _{CC}	V
		Power-down mode; V _{CC} = 0 V	0	3.6	V
T _{amb}	ambient temperature		-40	+125	°C

11. Static characteristics

Table 7. Static characteristics

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

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
T_{amb} = 25 °C						
V _{OH}	HIGH-level output voltage	V _I = V _{IH} or V _{IL}				
		I _O = -20 µA; V _{CC} = 0.8 V to 3.6 V	V _{CC} - 0.1	-	-	V
		I _O = -1.1 mA; V _{CC} = 1.1 V	0.75 × V _{CC}	-	-	V
		I _O = -1.7 mA; V _{CC} = 1.4 V	1.11	-	-	V
		I _O = -1.9 mA; V _{CC} = 1.65 V	1.32	-	-	V
		I _O = -2.3 mA; V _{CC} = 2.3 V	2.05	-	-	V
		I _O = -3.1 mA; V _{CC} = 2.3 V	1.9	-	-	V
		I _O = -2.7 mA; V _{CC} = 3.0 V	2.72	-	-	V
		I _O = -4.0 mA; V _{CC} = 3.0 V	2.6	-	-	V
V _{OL}	LOW-level output voltage	V _I = V _{IH} 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	-	-	0.31	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
I _I	input leakage current	V _I = GND to 3.6 V; V _{CC} = 0 V 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
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	-	-	±0.2	µA
I _{CC}	supply current	V _I = GND or V _{CC} ; I _O = 0 A; V _{CC} = 0.8 V to 3.6 V	-	-	0.5	µA
ΔI _{CC}	additional supply current	V _I = V _{CC} - 0.6 V; I _O = 0 A; V _{CC} = 3.3 V	[1]	-	40	µA
C _I	input capacitance	V _I = GND or V _{CC} ; V _{CC} = 0 V to 3.6 V	-	1.1	-	pF
C _O	output capacitance	V _O = GND; V _{CC} = 0 V	-	1.7	-	pF

Table 7. Static characteristics ...continued

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

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
T_{amb} = -40 °C to +85 °C						
V _{OH}	HIGH-level output voltage	V _I = V _{IH} or V _{IL} I _O = -20 µA; V _{CC} = 0.8 V to 3.6 V I _O = -1.1 mA; V _{CC} = 1.1 V I _O = -1.7 mA; V _{CC} = 1.4 V I _O = -1.9 mA; V _{CC} = 1.65 V I _O = -2.3 mA; V _{CC} = 2.3 V I _O = -3.1 mA; V _{CC} = 2.3 V I _O = -2.7 mA; V _{CC} = 3.0 V I _O = -4.0 mA; V _{CC} = 3.0 V	V _{CC} - 0.1	-	-	V
V _{OL}	LOW-level output voltage	V _I = V _{IH} or V _{IL} I _O = 20 µA; V _{CC} = 0.8 V to 3.6 V I _O = 1.1 mA; V _{CC} = 1.1 V I _O = 1.7 mA; V _{CC} = 1.4 V I _O = 1.9 mA; V _{CC} = 1.65 V I _O = 2.3 mA; V _{CC} = 2.3 V I _O = 3.1 mA; V _{CC} = 2.3 V I _O = 2.7 mA; V _{CC} = 3.0 V I _O = 4.0 mA; V _{CC} = 3.0 V	-	-	0.1	V
I _I	input leakage current	V _I = GND to 3.6 V; V _{CC} = 0 V to 3.6 V	-	-	±0.5	µA
I _{OFF}	power-off leakage current	V _I or V _O = 0 V to 3.6 V; V _{CC} = 0 V	-	-	±0.5	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	-	-	±0.6	µA
I _{CC}	supply current	V _I = GND or V _{CC} ; I _O = 0 A; V _{CC} = 0.8 V to 3.6 V	-	-	0.9	µA
ΔI _{CC}	additional supply current	V _I = V _{CC} - 0.6 V; I _O = 0 A; V _{CC} = 3.3 V	[1]	-	50	µA

T_{amb} = -40 °C to +125 °C

V _{OH}	HIGH-level output voltage	V _I = V _{IH} or V _{IL} I _O = -20 µA; V _{CC} = 0.8 V to 3.6 V I _O = -1.1 mA; V _{CC} = 1.1 V I _O = -1.7 mA; V _{CC} = 1.4 V I _O = -1.9 mA; V _{CC} = 1.65 V I _O = -2.3 mA; V _{CC} = 2.3 V I _O = -3.1 mA; V _{CC} = 2.3 V I _O = -2.7 mA; V _{CC} = 3.0 V I _O = -4.0 mA; V _{CC} = 3.0 V	V _{CC} - 0.11	-	-	V
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Table 7. Static characteristics ...continued

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

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V _{OL}	LOW-level output voltage	V _I = V _{IH} 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
I _I	input leakage current	V _I = GND to 3.6 V; V _{CC} = 0 V to 3.6 V	-	-	±0.75	µA
I _{OFF}	power-off leakage current	V _I or V _O = 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	V _I = GND or V _{CC} ; I _O = 0 A; V _{CC} = 0.8 V to 3.6 V	-	-	1.4	µA
ΔI _{CC}	additional supply current	V _I = V _{CC} – 0.6 V; I _O = 0 A; V _{CC} = 3.3 V	[1]	-	75	µA

[1] One input at V_{CC} – 0.6 V, other input at V_{CC} or GND.

12. 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			−40 °C to +125 °C			Unit
			Min	Typ ^[1]	Max	Min	Max (85 °C)	Max (125 °C)	
C_L = 5 pF									
t _{pd}	propagation delay	A or B to Y; see Figure 7 [2]							
		V _{CC} = 0.8 V	-	22.5	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	2.6	6.3	13.4	2.4	15.1	16.6	ns
		V _{CC} = 1.4 V to 1.6 V	2.2	4.6	8.2	1.9	9.7	10.7	ns
		V _{CC} = 1.65 V to 1.95 V	1.9	3.9	6.6	1.7	7.9	8.7	ns
		V _{CC} = 2.3 V to 2.7 V	1.7	3.2	5.3	1.5	6.2	6.8	ns
		V _{CC} = 3.0 V to 3.6 V	1.6	2.9	4.7	1.4	5.6	6.2	ns
C_L = 10 pF									
t _{pd}	propagation delay	A or B to Y; see Figure 7 [2]							
		V _{CC} = 0.8 V	-	26.1	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	3.0	7.2	15.4	2.7	17.3	19.0	ns
		V _{CC} = 1.4 V to 1.6 V	2.5	5.2	9.3	2.2	11.0	12.1	ns
		V _{CC} = 1.65 V to 1.95 V	2.3	4.5	7.5	2.0	9.0	9.9	ns
		V _{CC} = 2.3 V to 2.7 V	2.1	3.8	6.1	1.8	7.2	7.9	ns
		V _{CC} = 3.0 V to 3.6 V	2.0	3.5	5.5	1.8	6.5	7.2	ns
C_L = 15 pF									
t _{pd}	propagation delay	A or B to Y; see Figure 7 [2]							
		V _{CC} = 0.8 V	-	29.6	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	3.3	8.0	17.2	3.0	19.4	21.3	ns
		V _{CC} = 1.4 V to 1.6 V	2.8	5.8	10.4	2.5	12.3	13.5	ns
		V _{CC} = 1.65 V to 1.95 V	2.6	5.0	8.3	2.3	10.0	11.0	ns
		V _{CC} = 2.3 V to 2.7 V	2.3	4.2	6.7	2.1	7.9	8.7	ns
		V _{CC} = 3.0 V to 3.6 V	2.2	3.9	6.1	2.0	7.3	8.0	ns
C_L = 30 pF									
t _{pd}	propagation delay	A or B to Y; see Figure 7 [2]							
		V _{CC} = 0.8 V	-	39.9	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	4.3	10.2	22.6	3.8	25.4	27.9	ns
		V _{CC} = 1.4 V to 1.6 V	3.6	7.3	13.3	3.2	15.8	17.4	ns
		V _{CC} = 1.65 V to 1.95 V	3.2	6.3	10.6	2.9	12.8	14.1	ns
		V _{CC} = 2.3 V to 2.7 V	3.0	5.3	8.5	2.7	10.1	11.1	ns
		V _{CC} = 3.0 V to 3.6 V	2.8	5.0	7.8	2.7	9.2	10.1	ns

Table 8. Dynamic characteristics ...continuedVoltages are referenced to GND (ground = 0 V; for test circuit see [Figure 8](#).

Symbol	Parameter	Conditions	25 °C			−40 °C to +125 °C			Unit
			Min	Typ ^[1]	Max	Min	Max (85 °C)	Max (125 °C)	
C_L = 5 pF, 10 pF, 15 pF and 30 pF									
C _{PD}	power dissipation capacitance	f _i = 1 MHz; V _I = GND to V _{CC}	[3]						
		V _{CC} = 0.8 V	-	2.6	-	-	-	-	pF
		V _{CC} = 1.1 V to 1.3 V	-	2.9	-	-	-	-	pF
		V _{CC} = 1.4 V to 1.6 V	-	3.0	-	-	-	-	pF
		V _{CC} = 1.65 V to 1.95 V	-	3.2	-	-	-	-	pF
		V _{CC} = 2.3 V to 2.7 V	-	3.8	-	-	-	-	pF
		V _{CC} = 3.0 V to 3.6 V	-	4.4	-	-	-	-	pF

[1] All typical values are measured at nominal V_{CC}.[2] t_{pd} is the same as t_{PLH} and t_{PHL}.[3] C_{PD} is used to determine the dynamic power dissipation (P_D in μW).

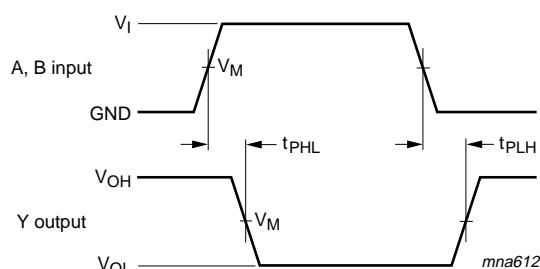
$$P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \sum(C_L \times V_{CC}^2 \times f_o) \text{ where:}$$

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;

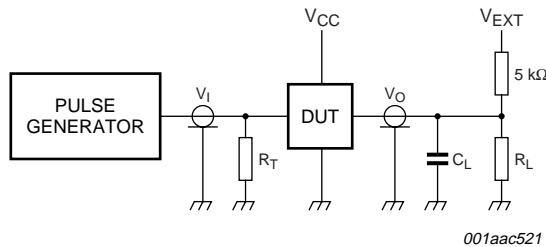
N = number of inputs switching;

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

13. Waveforms

Measurement points are given in [Table 9](#).Logic levels: V_{OL} and V_{OH} are typical output voltage drop that occur with the output load.**Fig 7. The data input (A or B) to output (Y) propagation delays****Table 9. Measurement points**

Supply voltage	Output	Input		
V _{CC} 0.8 V to 3.6 V	V _M 0.5 × V _{CC}	V _M 0.5 × V _{CC}	V _I V _{CC}	t _r = t _f ≤ 3.0 ns



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

Definitions for test circuit:

R_L = Load resistance.

C_L = Load capacitance including jig and probe capacitance.

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

V_{EXT} = External voltage for measuring switching times.

Fig 8. Load circuitry for switching times

Table 10. Test data

Supply voltage	Load	V_{EXT}	t_{PLH}, t_{PHL}	t_{PZH}, t_{PHZ}	t_{PZL}, t_{PLZ}
V_{CC}	C_L	R_L ^[1]	5 k Ω or 1 M Ω	open	GND

[1] For measuring enable and disable times $R_L = 5 \text{ k}\Omega$, for measuring propagation delays, setup and hold times and pulse width $R_L = 1 \text{ M}\Omega$.

14. Transfer characteristics

Table 11. Transfer characteristics

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

Symbol	Parameter	Conditions	25 °C			−40 °C to +125 °C			Unit
			Min	Typ	Max	Min	Max (85 °C)	Max (125 °C)	
V_{T+}	positive-going threshold voltage see Figure 9 and Figure 10	$V_{CC} = 0.8 \text{ V}$	0.30	-	0.60	0.30	0.60	0.62	V
		$V_{CC} = 1.1 \text{ V}$	0.53	-	0.90	0.53	0.90	0.92	V
		$V_{CC} = 1.4 \text{ V}$	0.74	-	1.11	0.74	1.11	1.13	V
		$V_{CC} = 1.65 \text{ V}$	0.91	-	1.29	0.91	1.29	1.31	V
		$V_{CC} = 2.3 \text{ V}$	1.37	-	1.77	1.37	1.77	1.80	V
		$V_{CC} = 3.0 \text{ V}$	1.88	-	2.29	1.88	2.29	2.32	V
V_{T-}	negative-going threshold voltage see Figure 9 and Figure 10	$V_{CC} = 0.8 \text{ V}$	0.10	-	0.60	0.10	0.60	0.60	V
		$V_{CC} = 1.1 \text{ V}$	0.26	-	0.65	0.26	0.65	0.65	V
		$V_{CC} = 1.4 \text{ V}$	0.39	-	0.75	0.39	0.75	0.75	V
		$V_{CC} = 1.65 \text{ V}$	0.47	-	0.84	0.47	0.84	0.84	V
		$V_{CC} = 2.3 \text{ V}$	0.69	-	1.04	0.69	1.04	1.04	V
		$V_{CC} = 3.0 \text{ V}$	0.88	-	1.24	0.88	1.24	1.24	V
V_H	hysteresis voltage ($V_{T+} - V_{T-}$); see Figure 9 , Figure 10 , Figure 11 and Figure 12	$V_{CC} = 0.8 \text{ V}$	0.07	-	0.50	0.07	0.50	0.50	V
		$V_{CC} = 1.1 \text{ V}$	0.08	-	0.46	0.08	0.46	0.46	V
		$V_{CC} = 1.4 \text{ V}$	0.18	-	0.56	0.18	0.56	0.56	V
		$V_{CC} = 1.65 \text{ V}$	0.27	-	0.66	0.27	0.66	0.66	V
		$V_{CC} = 2.3 \text{ V}$	0.53	-	0.92	0.53	0.92	0.92	V
		$V_{CC} = 3.0 \text{ V}$	0.79	-	1.31	0.79	1.31	1.31	V

15. Waveforms transfer characteristics

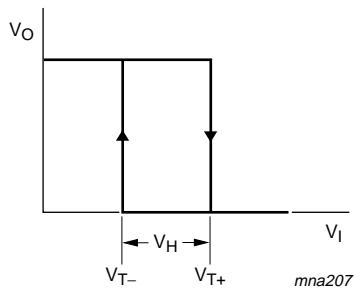
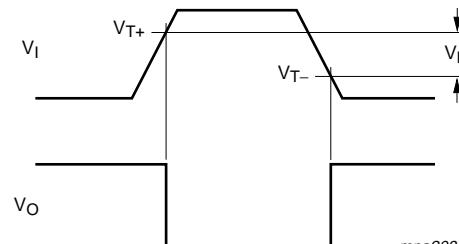


Fig 9. Transfer characteristic



V_{T+} and V_{T-} limits at 70 % and 20 %.

Fig 10. Definition of V_{T+} , V_{T-} and V_H

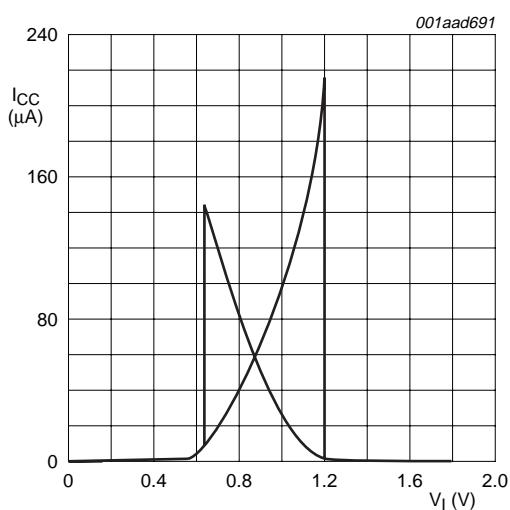


Fig 11. Typical transfer characteristics; $V_{CC} = 1.8 \text{ V}$

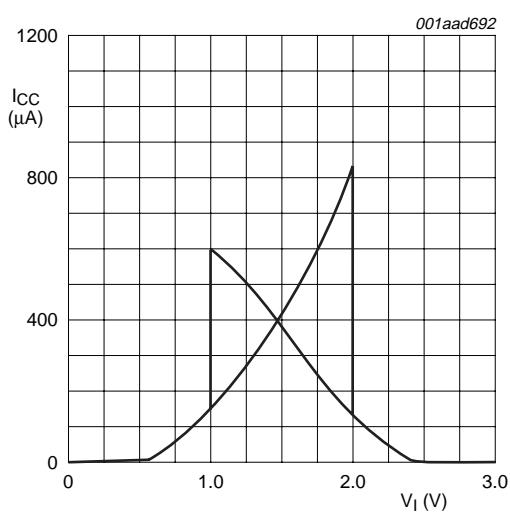


Fig 12. Typical transfer characteristics; $V_{CC} = 3.0 \text{ V}$

16. Application information

The slow input rise and fall times cause additional power dissipation, this 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);

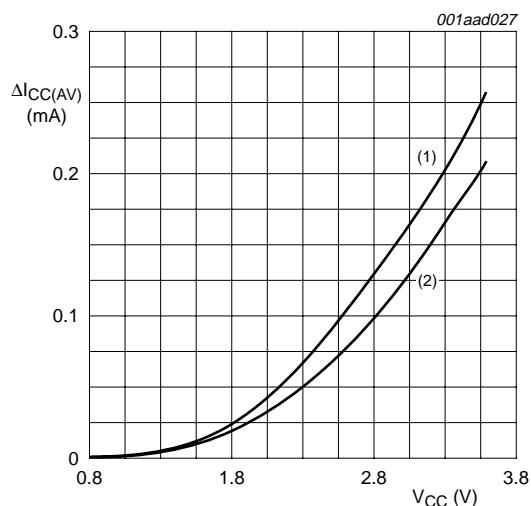
f_i = input frequency (MHz);

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 $\Delta I_{CC(AV)}$ differs with positive or negative input transitions, as shown in [Figure 13](#).



(1) Positive-going edge.

(2) Negative-going edge.

Linear change of V_i between 0.8 V and 2.0 V. All values given are typical, unless otherwise specified.

Fig 13. Average I_{CC} as a function of V_{CC}

17. Package outline

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

SOT353-1

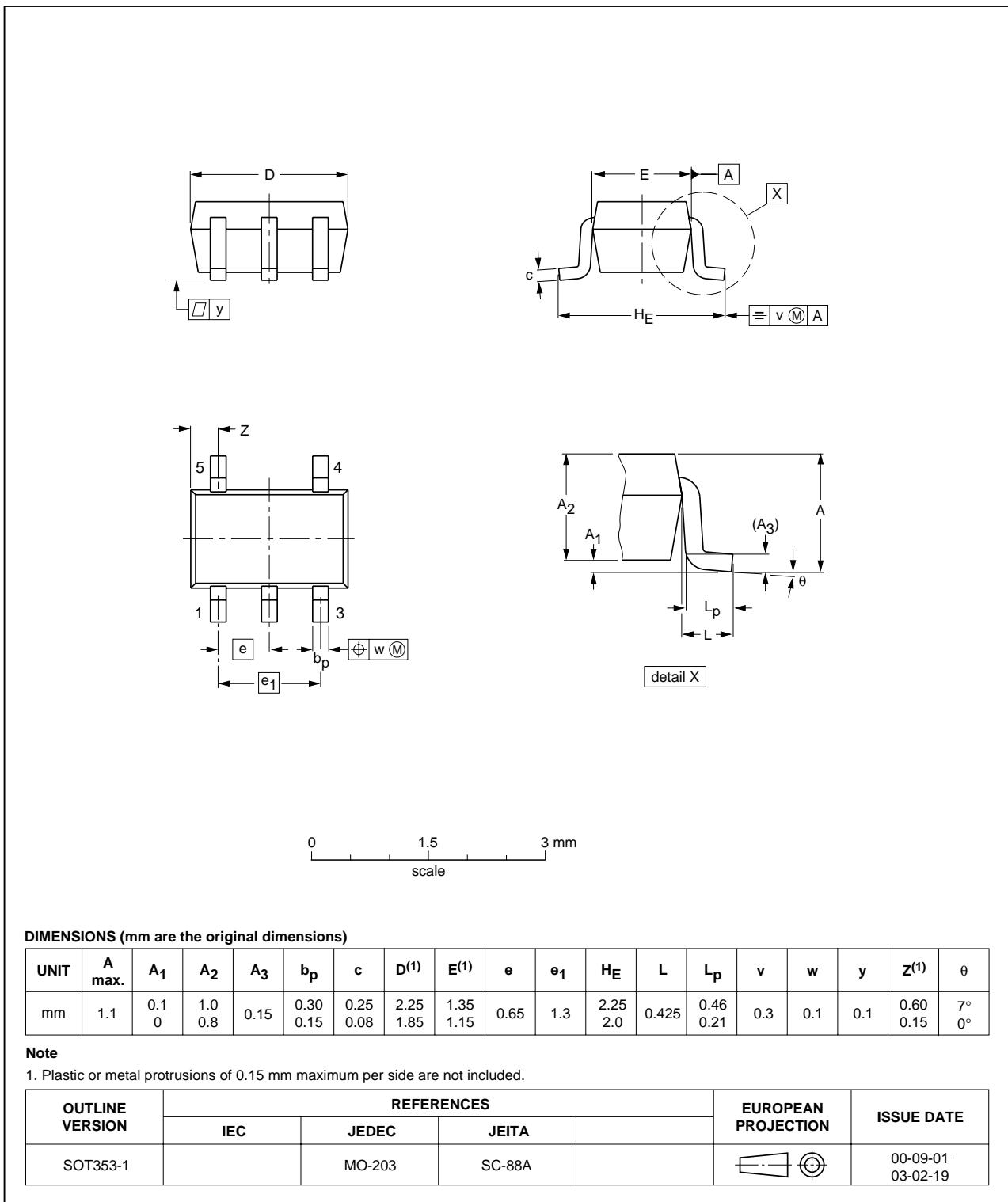
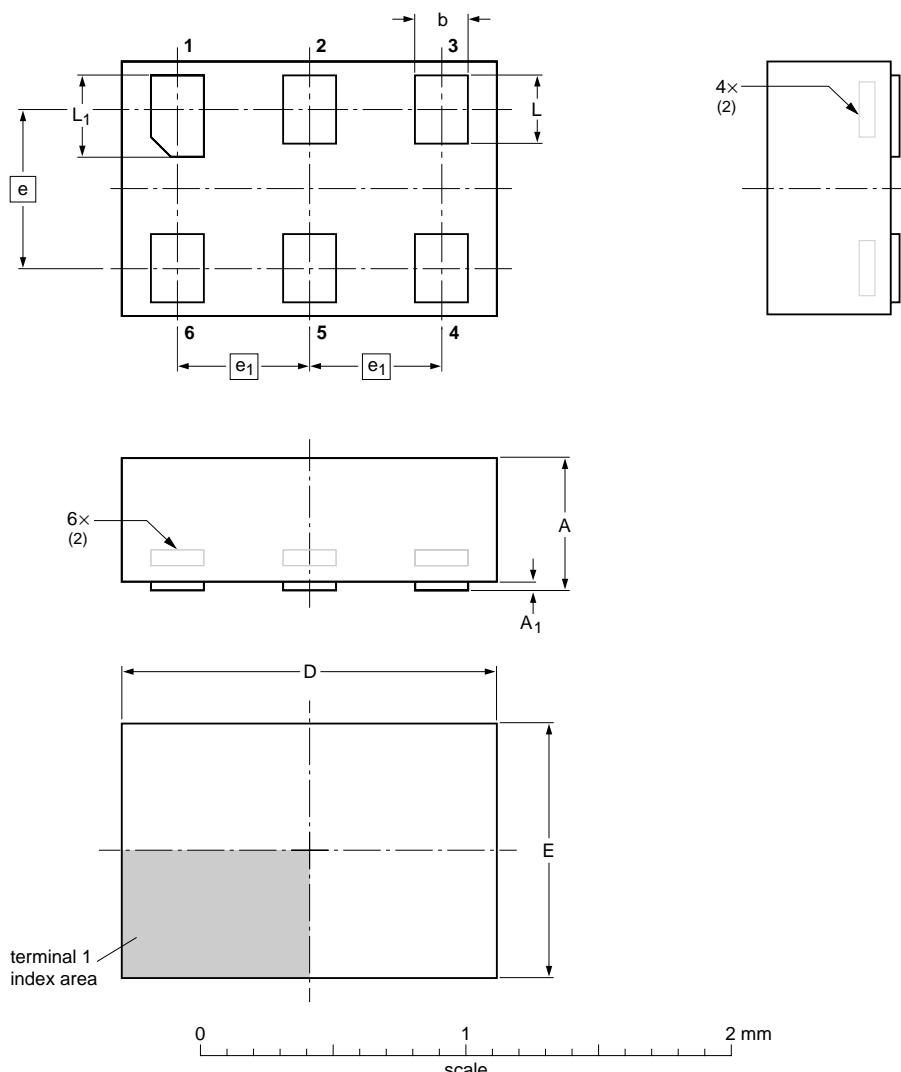


Fig 14. Package outline SOT353-1 (TSSOP5)

XSON6: plastic extremely thin small outline package; no leads; 6 terminals; body 1 x 1.45 x 0.5 mm

SOT886

**DIMENSIONS (mm are the original dimensions)**

UNIT	A ⁽¹⁾ max	A ₁ max	b	D	E	e	e ₁	L	L ₁
mm	0.5	0.04	0.25 0.17	1.5 1.4	1.05 0.95	0.6	0.5	0.35 0.27	0.40 0.32

Notes

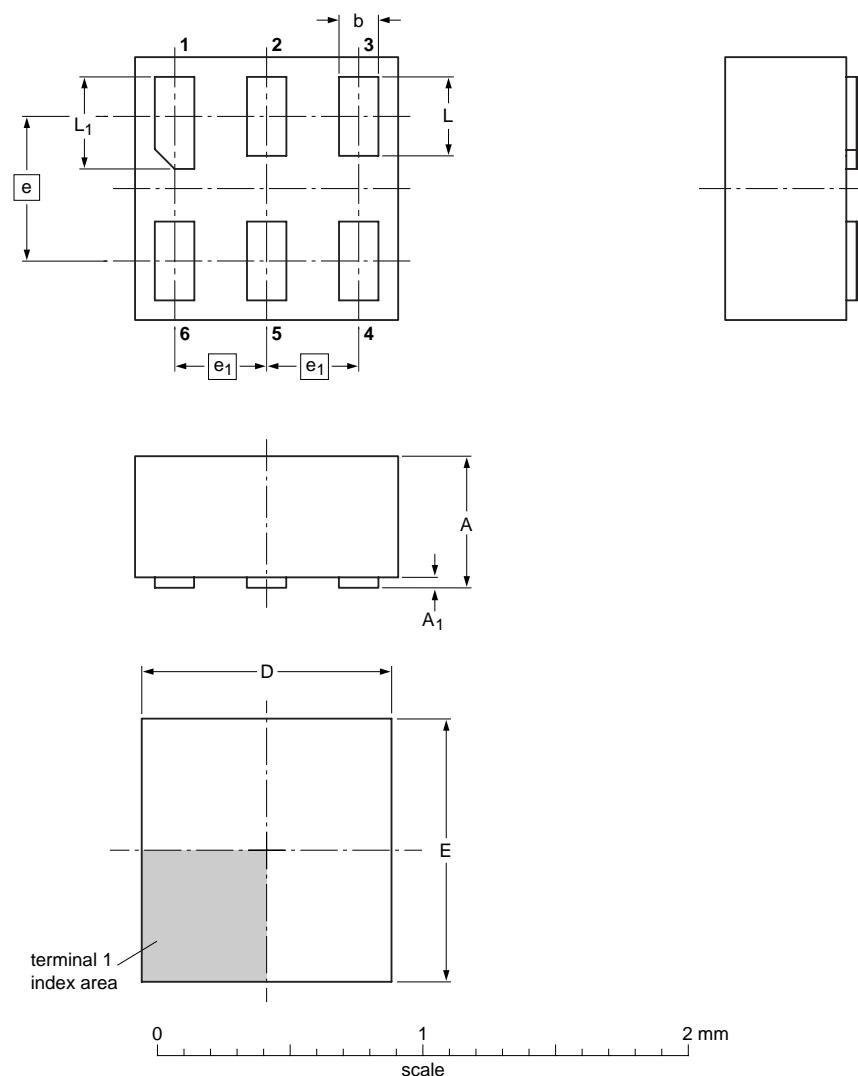
1. Including plating thickness.
2. Can be visible in some manufacturing processes.

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	JEITA			
SOT886		MO-252				-04-07-15 04-07-22

Fig 15. Package outline SOT886 (XSON6)

XSON6: plastic extremely thin small outline package; no leads; 6 terminals; body 1 x 1 x 0.5 mm

SOT891

**DIMENSIONS (mm are the original dimensions)**

UNIT	A max	A ₁ max	b	D	E	e	e ₁	L	L ₁
mm	0.5	0.04	0.20 0.12	1.05 0.95	1.05 0.95	0.55	0.35	0.35 0.27	0.40 0.32

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	JEITA			
SOT891						-05-03-11 05-04-06

Fig 16. Package outline SOT891 (XSON6)

18. Abbreviations

Table 12. Abbreviations

Acronym	Description
CDM	Charged Device Model
CMOS	Complementary Metal Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
HBM	Human Body Model
MM	Machine Model
TTL	Transistor-Transistor Logic

19. Revision history

Table 13. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74AUP1G132_1	20061020	Product data sheet	-	-

20. Legal information

20.1 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".

[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 URL <http://www.nxp.com>.

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22. Contents

1	General description	1
2	Features	1
3	Applications	1
4	Ordering information	2
5	Marking	2
6	Functional diagram	2
7	Pinning information	2
7.1	Pinning	2
7.2	Pin description	3
8	Functional description	3
9	Limiting values	3
10	Recommended operating conditions	4
11	Static characteristics	4
12	Dynamic characteristics	7
13	Waveforms	8
14	Transfer characteristics	10
15	Waveforms transfer characteristics	10
16	Application information	12
17	Package outline	13
18	Abbreviations	16
19	Revision history	16
20	Legal information	17
20.1	Data sheet status	17
20.2	Definitions	17
20.3	Disclaimers	17
20.4	Trademarks	17
21	Contact information	17
22	Contents	18

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