

74AHC1G66; 74AHCT1G66

Single-pole single-throw analog switch

Rev. 04 — 18 December 2008

Product data sheet

1. General description

74AHC1G66 and 74AHCT1G66 are high-speed Si-gate CMOS devices. They are single-pole single-throw analog switches. The switch has two input/output pins (Y and Z) and an active HIGH enable input pin (E). When pin E is LOW, the analog switch is turned off.

2. Features

- Very low ON resistance:
 - ◆ 26 Ω (typ.) at $V_{CC} = 3.0\text{ V}$
 - ◆ 16 Ω (typ.) at $V_{CC} = 4.5\text{ V}$
 - ◆ 14 Ω (typ.) at $V_{CC} = 5.5\text{ V}$
- High noise immunity
- Low power dissipation
- Balanced propagation delays
- Multiple package options
- ESD protection:
 - ◆ HMB JESD22-A114E exceeds 2000 V
 - ◆ MM JESD22-A115-A exceeds 200 V
 - ◆ CDM JESD22-C101C exceeds 1000 V
- Specified from $-40\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$ and $-40\text{ }^{\circ}\text{C}$ to $+125\text{ }^{\circ}\text{C}$

3. Ordering information

Table 1. Ordering information

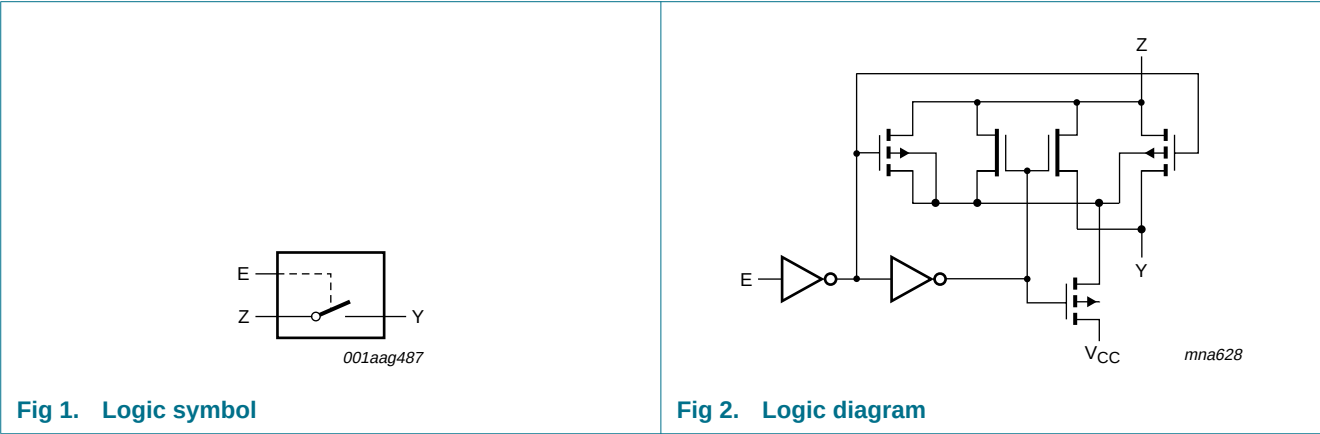
Type number	Package			
	Temperature range	Name	Description	Version
74AHC1G66GW 74AHCT1G66GW	$-40\text{ }^{\circ}\text{C}$ to $+125\text{ }^{\circ}\text{C}$	TSSOP5	plastic thin shrink small outline package; 5 leads; body width 1.25 mm	SOT353-1
74AHC1G66GV 74AHCT1G66GV	$-40\text{ }^{\circ}\text{C}$ to $+125\text{ }^{\circ}\text{C}$	SC-74A	plastic surface-mounted package; 5 leads	SOT753

4. Marking

Table 2. Marking codes

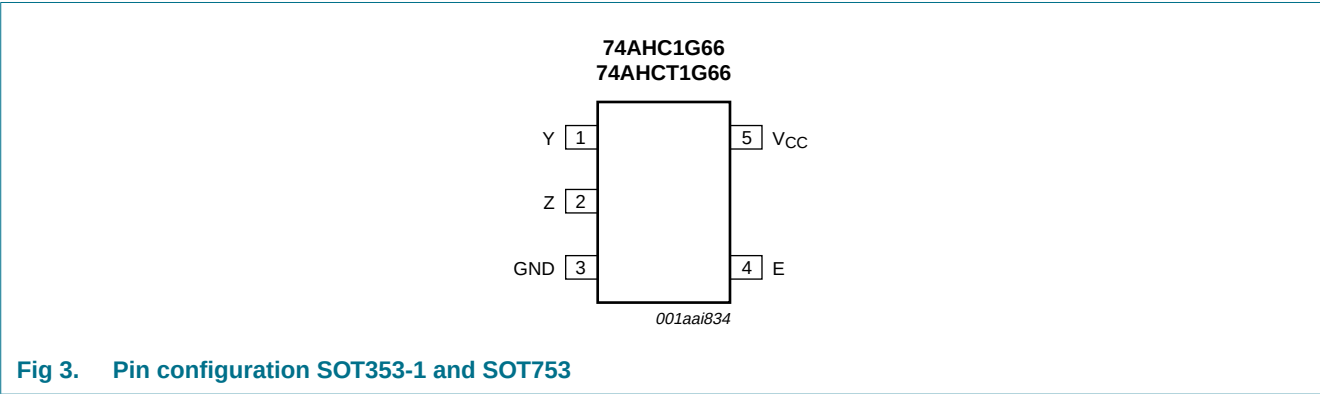
Type number	Marking
74AHC1G66GW	AL
74AHCT1G66GW	CL
74AHC1G66GV	A66
74AHCT1G66GV	C66

5. Functional diagram



6. Pinning information

6.1 Pinning



6.2 Pin description

Table 3. Pin description

Symbol	Pin	Description
Y	1	independent input or output
Z	2	independent input or output
GND	3	ground (0 V)
E	4	enable input (active HIGH)
V _{CC}	5	supply voltage

7. Functional description

Table 4. Function table^[1]

Input E	Switch
L	OFF
H	ON

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

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	+7.0	V
I _{IK}	input clamping current	V _I < -0.5 V	^[1] -20	-	mA
I _{SK}	switch clamping current	V _I < -0.5 V or V _I > V _{CC} + 0.5 V	^[1] -	±20	mA
I _{SW}	switch 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 voltage ratings are observed.

[2] For TSSOP5 and SC-74A packages: above 87.5 °C the value of P_{tot} derates linearly with 4.0 mW/K.

9. Recommended operating conditions

Table 6. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V).^[1]

Symbol	Parameter	Conditions	74AHC1G66			74AHCT1G66			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 _{SW}	switch voltage		0	-	V _{CC}	0	-	V _{CC}	V

Table 6. Recommended operating conditions ...continued

Voltages are referenced to GND (ground = 0 V).^[1]

Symbol	Parameter	Conditions	74AHC1G66			74AHCT1G66			Unit
			Min	Typ	Max	Min	Typ	Max	
T _{amb}	ambient temperature		-40	+25	+125	-40	+25	+125	°C
$\Delta t/\Delta V$	input transition rise and fall rate	V _{CC} = 3.3 ± 0.3 V ^[2]	-	-	100	-	-	-	ns/V
		V _{CC} = 5.0 ± 0.5 V ^[2]	-	-	20	-	-	20	ns/V

[1] To avoid drawing V_{CC} current out of pin Z, when switch current flows in pin Y, the voltage drop across the bidirectional switch must not exceed 0.4 V. If the switch current flows into pin Z, no V_{CC} current will flow out of terminal Y. In this case there is no limit for the voltage drop across the switch, but the voltage at pins Y and Z may not exceed V_{CC} or GND.

[2] Applies to control signal levels.

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	

74AHC1G66

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
I _I	input leakage current	V _I = 5.5 V or GND; V _{CC} = 5.5 V	-	-	0.1	-	1.0	-	2.0	μA
I _{S(OFF)}	OFF-state leakage current	Y or Z; V _{CC} = 5.5 V; see Figure 4	-	-	0.1	-	1.0	-	4.0	μA
I _{S(ON)}	ON-state leakage current	Y or Z; V _{CC} = 5.5 V; see Figure 5	-	-	0.1	-	1.0	-	4.0	μA
I _{CC}	supply current	E, Y or Z = V _{CC} or GND; V _{CC} = 5.5 V	-	-	1.0	-	10	-	40	μA
C _I	input capacitance	E input	-	2.0	10	-	10	-	10	pF
C _{S(ON)}	ON-state capacitance	Y or Z input or output	-	4.0	10	-	10	-	10	pF

74AHCT1G66

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
I _I	input leakage current	V _I = 5.5 V or GND; V _{CC} = 5.5 V	-	-	0.1	-	1.0	-	2.0	μA

Table 7. **Static characteristics ...continued**
 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	
$I_{S(OFF)}$	OFF-state leakage current	Y or Z; $V_{CC} = 5.5\text{ V}$; see Figure 4	-	-	0.1	-	1.0	-	4.0	μA
$I_{S(ON)}$	ON-state leakage current	Y or Z; $V_{CC} = 5.5\text{ V}$; see Figure 5	-	-	0.1	-	1.0	-	4.0	μA
I_{CC}	supply current	E, Y or Z = V_{CC} or GND; $V_{CC} = 5.5\text{ V}$	-	-	1.0	-	10	-	40	μA
ΔI_{CC}	additional supply current	per input pin; $V_I = 3.4\text{ V}$; other inputs at V_{CC} or GND; $I_O = 0\text{ A}$; $V_{CC} = 5.5\text{ V}$	-	-	1.35	-	1.5	-	1.5	mA
C_I	input capacitance	E input	-	2.0	10	-	10	-	10	pF
$C_{S(ON)}$	ON-state capacitance	Y or Z input or output	-	4.0	10	-	10	-	10	pF

10.1 Test circuits

$V_I = V_{CC}$ or GND and $V_O = \text{GND}$ or V_{CC} .

Fig 4. Test circuit for measuring OFF-state leakage current

$V_I = V_{CC}$ or GND and $V_O = \text{open circuit}$.

Fig 5. Test circuit for measuring ON-state leakage current

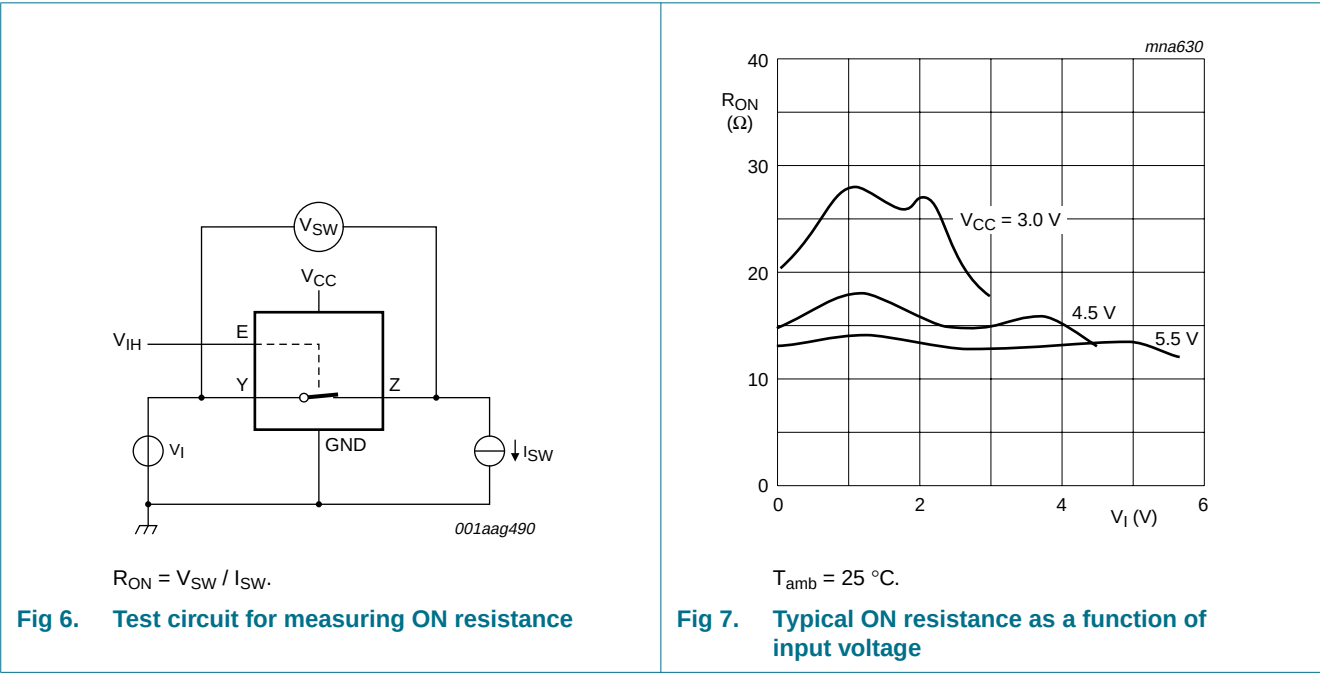
10.2 ON resistance

Table 8. ON resistance
At recommended operating conditions; voltages are referenced to GND (ground 0 V); for graph see Figure 7 [1].

Symbol	Parameter	Conditions	25 °C		−40 °C to +85 °C	−40 °C to +125 °C	Unit
			Typ	max	Max	Max	
74AHC1G66 and 74AHCT1G66							
R _{ON(peak)}	ON resistance (peak)	V _I = V _{CC} to GND; see Figure 6					
		I _{SW} = 1.0 mA; V _{CC} = 2.0 V	148 ^[1]	-	-	-	Ω
		I _{SW} = 10 mA; V _{CC} = 3.0 V to 3.6 V	28	50	70	110	Ω
		I _{SW} = 10 mA; V _{CC} = 4.5 V to 5.5 V	15	30	40	60	Ω
R _{ON(rail)}	ON resistance (rail)	V _I = GND; see Figure 6					
		I _{SW} = 1.0 mA; V _{CC} = 2.0 V	30	-	-	-	Ω
		I _{SW} = 10 mA; V _{CC} = 3.0 V to 3.6 V	20	50	65	90	Ω
		I _{SW} = 10 mA; V _{CC} = 4.5 V to 5.5 V	15	22	26	40	Ω
		V _I = V _{CC} ; see Figure 6					
		I _{SW} = 1.0 mA; V _{CC} = 2.0 V	28	-	-	-	Ω
		I _{SW} = 10 mA; V _{CC} = 3.0 V to 3.6 V	18	50	65	90	Ω
		I _{SW} = 10 mA; V _{CC} = 4.5 V to 5.5 V	13	22	26	40	Ω

[1] At supply voltages approaching 2 V, the analog switch ON resistance becomes extremely non-linear. Therefore it is recommended that these devices be used to transmit digital signals only, when using this supply voltage.

10.3 ON resistance test circuit and graphs



11. Dynamic characteristics

Table 9. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); $C_L = 50$ pF; unless otherwise specified; For test circuit see [Figure 10](#).

Symbol	Parameter	Conditions	25 °C		–40 °C to +85 °C	–40 °C to +125 °C	Unit
			Typ ^[1]	max	Max	Max	
74AHC1G66							
t _{pd}	propagation delay	Y to Z or Z to Y; see Figure 8 ^[2]					
		V _{CC} = 2.0 V	2.2	5.0	6.0	7.0	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	2.0	3.0	4.0	ns
		V _{CC} = 4.5 V to 5.5 V	0.6	1.0	2.0	3.0	ns
t _{en}	enable time	E to Y or Z; see Figure 9 ^[2]					
		V _{CC} = 2.0 V; C _L = 15 pF	7.0	25.0	33.0	40.0	ns
		V _{CC} = 2.0 V	11.0	35.0	46.0	57.0	ns
		V _{CC} = 3.0 V to 3.6 V; C _L = 15 pF	4.0	11.0	14.0	18.0	ns
		V _{CC} = 3.0 V to 3.6 V	5.8	15.0	20.0	25.0	ns
		V _{CC} = 4.5 V to 5.5 V; C _L = 15 pF	3.0	8.0	10.0	13.0	ns
		V _{CC} = 4.5 V to 5.5 V	4.0	11.0	13.0	17.0	ns
t _{dis}	disable time	E to Y or Z; see Figure 9 ^[2]					
		V _{CC} = 2.0 V; C _L = 15 pF	9.0	25.0	33.0	40.0	ns
		V _{CC} = 2.0 V	13.0	35.0	46.0	57.0	ns
		V _{CC} = 3.0 V to 3.6 V; C _L = 15 pF	6.0	11.0	14.0	18.0	ns
		V _{CC} = 3.0 V to 3.6 V	8.4	15.0	20.0	25.0	ns
		V _{CC} = 4.5 V to 5.5 V; C _L = 15 pF	5.0	8.0	10.0	13.0	ns
		V _{CC} = 4.5 V to 5.5 V	6.1	11.0	13.0	17.0	ns
C _{PD}	power dissipation capacitance	V _I = GND to V _{CC} ^[3]	13	-	-	-	pF
74AHCT1G66							
t _{pd}	propagation delay	Y to Z or Z to Y; see Figure 8 ^[2]					
		V _{CC} = 4.5 V to 5.5 V	0.7	1.0	2.0	3.0	ns
t _{en}	enable time	E to Y or Z; see Figure 9 ^[2]					
		V _{CC} = 4.5 V to 5.5 V; C _L = 15 pF	3.0	7.0	10.0	13.0	ns
		V _{CC} = 4.5 V to 5.5 V	4.7	10.0	13.0	17.0	ns
t _{dis}	disable time	E to Y or Z; see Figure 9 ^[2]					
		V _{CC} = 4.5 V to 5.5 V; C _L = 15 pF	5.0	8.0	10.0	13.0	ns
		V _{CC} = 4.5 V to 5.5 V	6.5	11.0	13.0	17.0	ns

Table 9. Dynamic characteristics ...continued
Voltages are referenced to GND (ground = 0 V); C_L = 50 pF; unless otherwise specified; For test circuit see [Figure 10](#).

Symbol	Parameter	Conditions	25 °C		−40 °C to +85 °C	−40 °C to +125 °C	Unit
			Typ ^[1]	max	Max	Max	
C _{PD}	power dissipation capacitance	V _I = GND to V _{CC}	^[3] 15	-	-	-	pF

- [1] All typical values are measured at V_{CC} = 2.0 V, V_{CC} = 3.3 V, V_{CC} = 5.0 V and T_{amb} = 25 °C.
- [2]

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

t_{en} is the same as t_{PZL} and t_{PZH}.

t_{dis} is the same as t_{PLZ} and t_{PHZ}.
- [3]

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 × C_{SW}) × V_{CC}² × f_o) where:

f_i = input frequency in MHz;

f_o = output frequency in MHz;

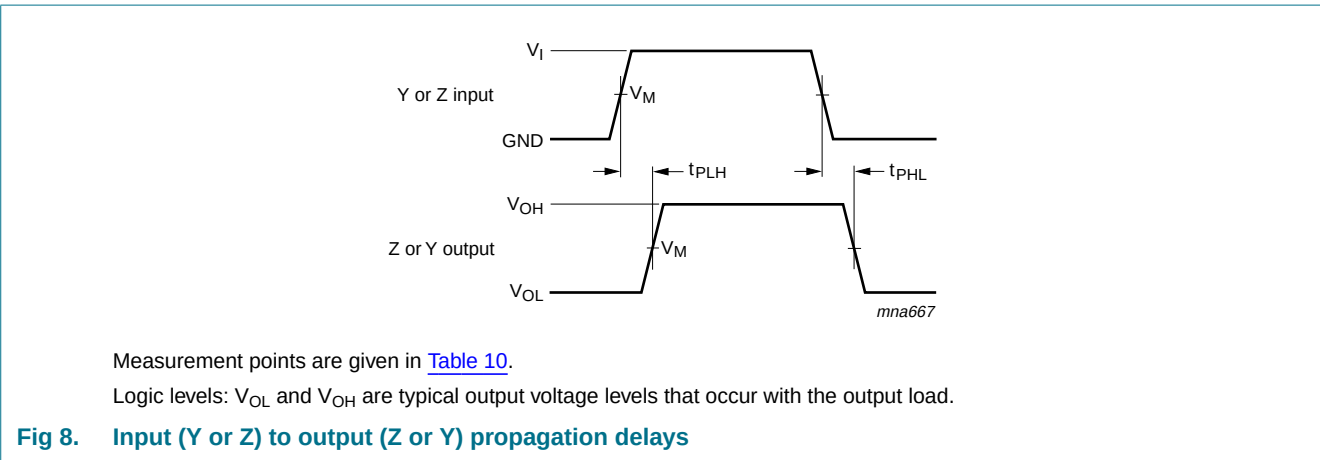
C_L = output load capacitance in pF;

C_{SW} = maximum switch capacitance in pF (see [Table 7](#));

V_{CC} = supply voltage in Volt;

Σ ((C_L × C_{SW}) × V_{CC}² × f_o) = sum of outputs.

11.1 Waveforms and test circuit



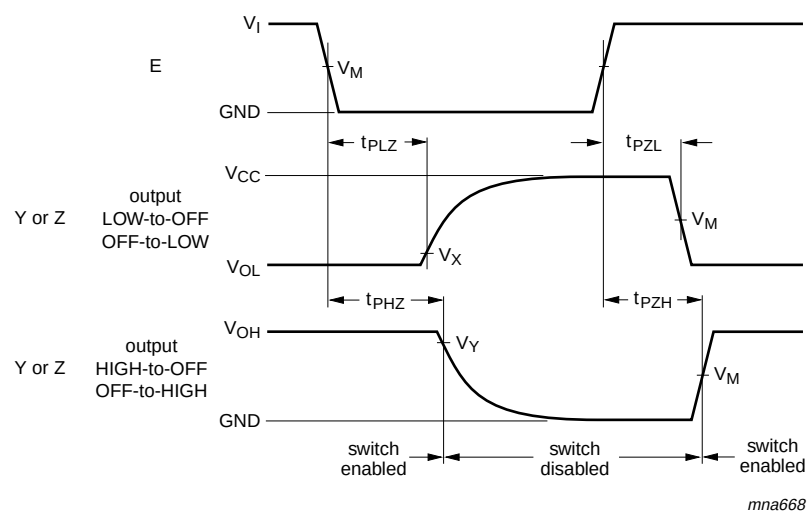
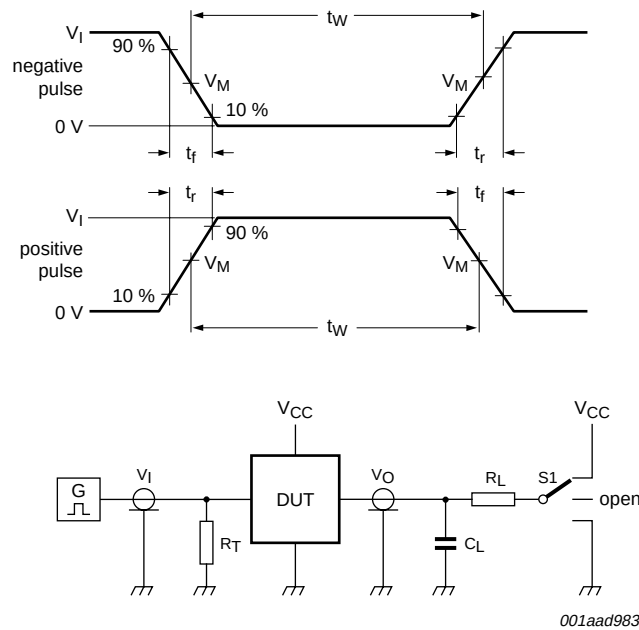


Fig 9. Enable and disable times

Table 10. Measurement points

Type	Input	Output		
	V_M	V_M	V_X	V_Y
74AHC1G66	$0.5V_{CC}$	$0.5V_{CC}$	$V_{OL} + 0.3\text{ V}$	$V_{OH} - 0.3\text{ V}$
74AHCT1G66	1.5 V	1.5 V	$V_{OL} + 0.3\text{ V}$	$V_{OH} - 0.3\text{ V}$



Test data is given in [Table 11](#).

Definitions for test circuit:

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

C_L = Load capacitance including jig and probe capacitance.

R_L = Load resistance.

S1 = Test selection switch.

Fig 10. Test circuit for measuring switching times

Table 11. Test data

Type	Input		Load		S1 position		
	V_I	t_r, t_f	C_L	R_L	t_{PHL}, t_{PLH}	t_{PZH}, t_{PHZ}	t_{PZL}, t_{PLZ}
74AHC1G66	GND to V_{CC}	3 ns	15 pF, 50 pF	1 k Ω	open	GND	V_{CC}
74AHCT1G66	GND to 3 V	3 ns	15 pF, 50 pF	1 k Ω	open	GND	V_{CC}

11.2 Additional dynamic characteristics

Table 12. Additional dynamic characteristics for 74AHC1G66 and 74AHCT1G66

$GND = 0$ V; $t_r = t_f = 3.0$ ns; $C_L = 50$ pF; unless otherwise specified. All typical values are measured at $T_{amb} = 25$ °C.

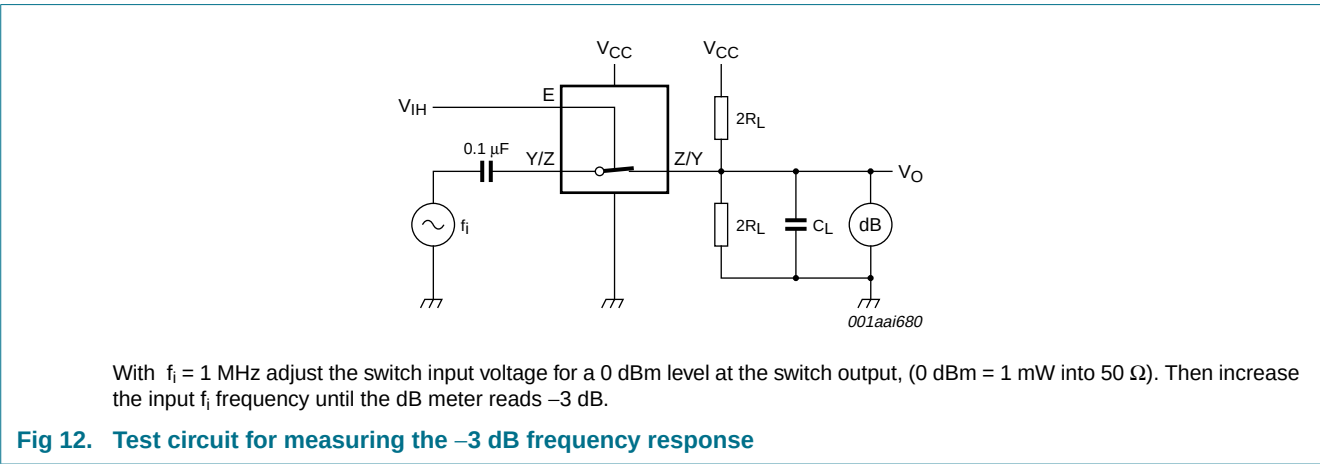
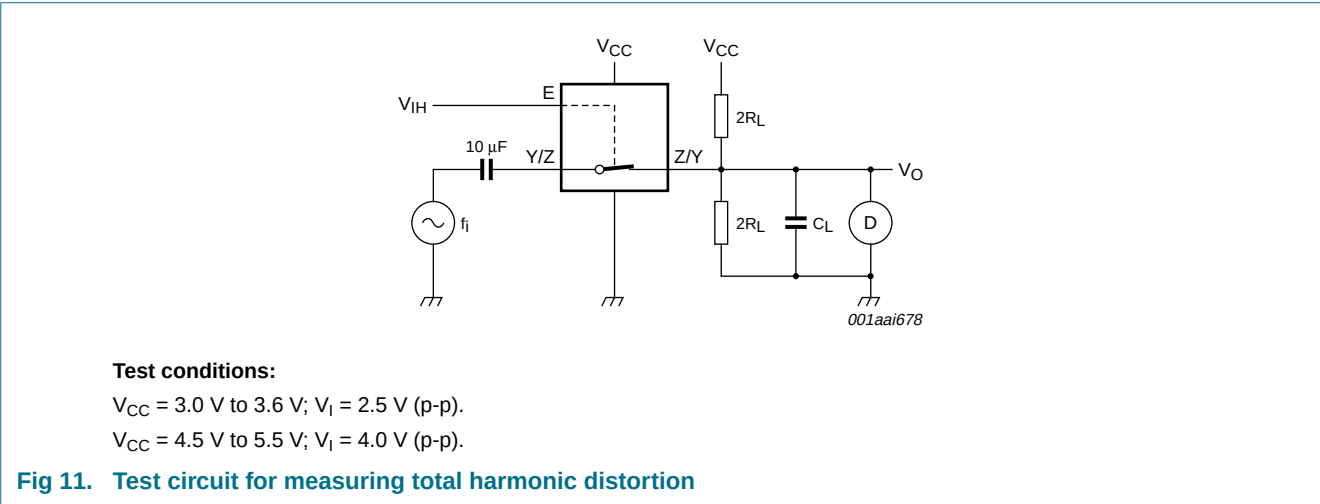
Symbol	Parameter	Conditions	Min	Typ	Max	Unit
THD	total harmonic distortion	$f_i = 1$ kHz; $R_L = 10$ k Ω ; see Figure 11				
		$V_{CC} = 3.0$ V to 3.6 V	-	0.025	-	%
		$V_{CC} = 4.5$ V to 5.5 V	-	0.015	-	%
		$f_i = 10$ kHz; $R_L = 10$ k Ω ; see Figure 11				
		$V_{CC} = 3.0$ V to 3.6 V; $V_I = 2.5$ V	-	0.025	-	%
		$V_{CC} = 4.5$ V to 5.5 V; $V_I = 4.0$ V	-	0.015	-	%

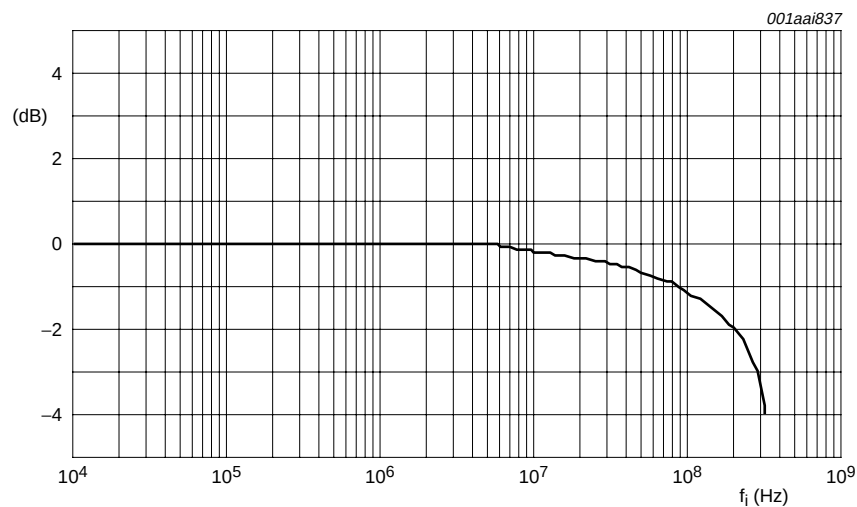
Table 12. Additional dynamic characteristics for 74AHC1G66 and 74AHCT1G66 ...continued
GND = 0 V; $t_r = t_f = 3.0\text{ ns}$; $C_L = 50\text{ pF}$; unless otherwise specified. All typical values are measured at $T_{amb} = 25\text{ }^{\circ}\text{C}$.

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
$f_{(-3\text{dB})}$	−3 dB frequency response	$R_L = 50\text{ }\Omega$; $C_L = 10\text{ pF}$; see Figure 12 and 13				
		$V_{CC} = 3.0\text{ V to }3.6\text{ V}$	-	230	-	MHz
		$V_{CC} = 4.5\text{ V to }5.5\text{ V}$	-	280	-	MHz
α_{iso}	isolation (OFF-state)	$R_L = 600\text{ }\Omega$; $f_i = 1\text{ MHz}$; see Figure 14 [1]				
		$V_{CC} = 3.0\text{ V to }3.6\text{ V}$; $V_I = 2.5\text{ V}$	-	−50	-	dB
		$V_{CC} = 4.5\text{ V to }5.5\text{ V}$; $V_I = 4.0\text{ V}$	-	−50	-	dB

[1] Adjust input voltage V_I to 0 dBm level (0 dBm =1 mW into 50 Ω).

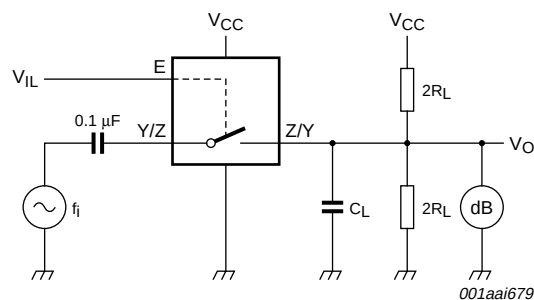
11.3 Test circuits and graphs





Test conditions: $V_{CC} = 4.5\text{ V}$; $GND = 0\text{ V}$; $R_L = 50\text{ }\Omega$; $R_{SOURCE} = 1\text{ k}\Omega$.

Fig 13. Typical -3 dB frequency response



Adjust the switch input voltage for a 0 dBm level (0 dBm = 1 mW into 600 Ω).

Fig 14. Test circuit for measuring isolation (OFF-state)

12. Package outline

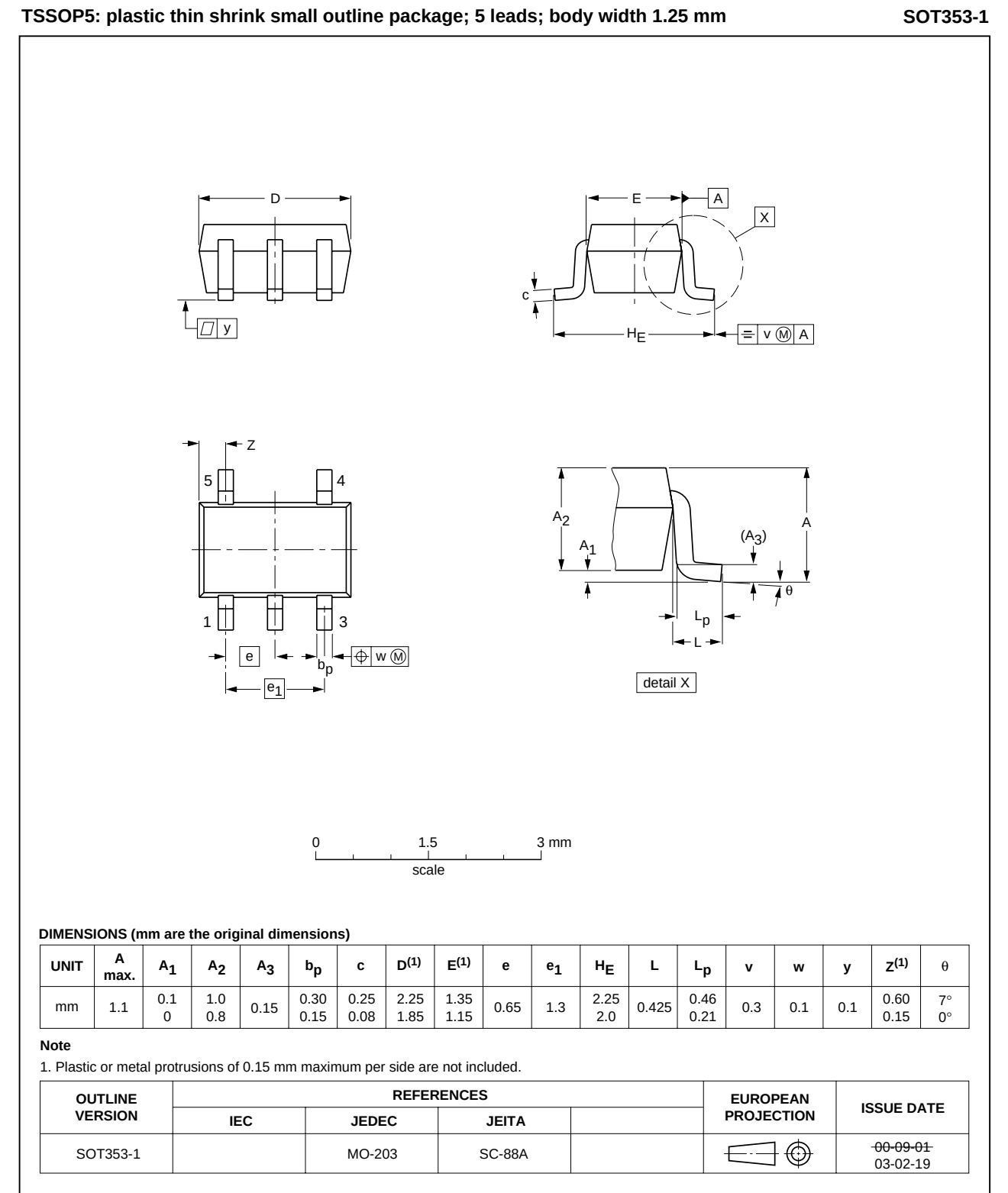


Fig 15. Package outline SOT353-1 (TSSOP5)

13. Abbreviations

Table 13. 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

14. Revision history

Table 14. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74AHC_AHCT1G66_4	20081218	Product data sheet	-	74AHC_AHCT1G66_3
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 Table 1 and Figure 15. • Quick Reference Data and Soldering sections removed. • Section 2 "Features" updated.			
74AHC_AHCT1G66_3	20020606	Product specification	-	74AHC_AHCT1G66_2
74AHC_AHCT1G66_2	20020215	Product specification	-	74AHC_AHCT1G66_1
74AHC_AHCT1G66_1	20010129	Product specification	-	-

15. Legal information

15.1 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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