

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

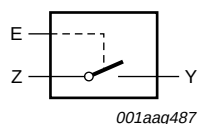


Fig 1. Logic symbol

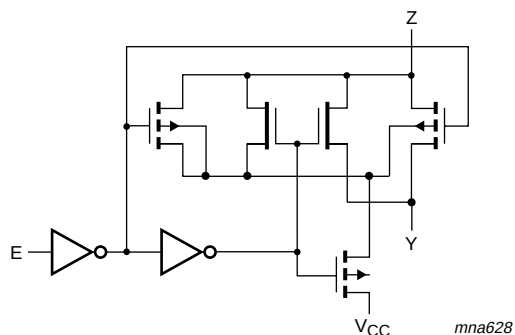


Fig 2. Logic diagram

6. Pinning information

6.1 Pinning

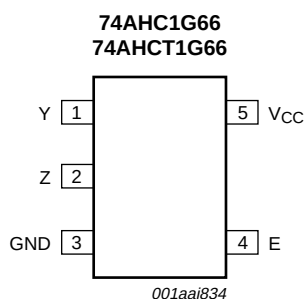


Fig 3. Pin configuration SOT353-1 and SOT753

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 ...continuedVoltages 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

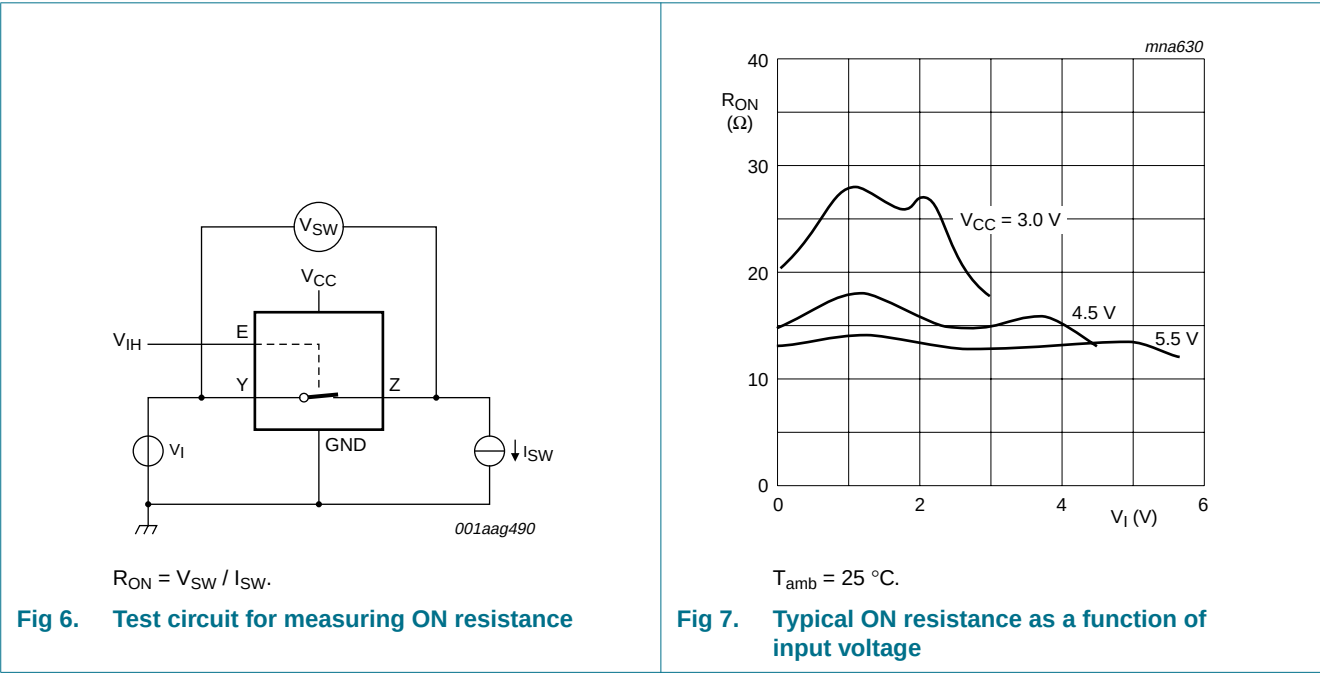
10.2 ON resistance

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

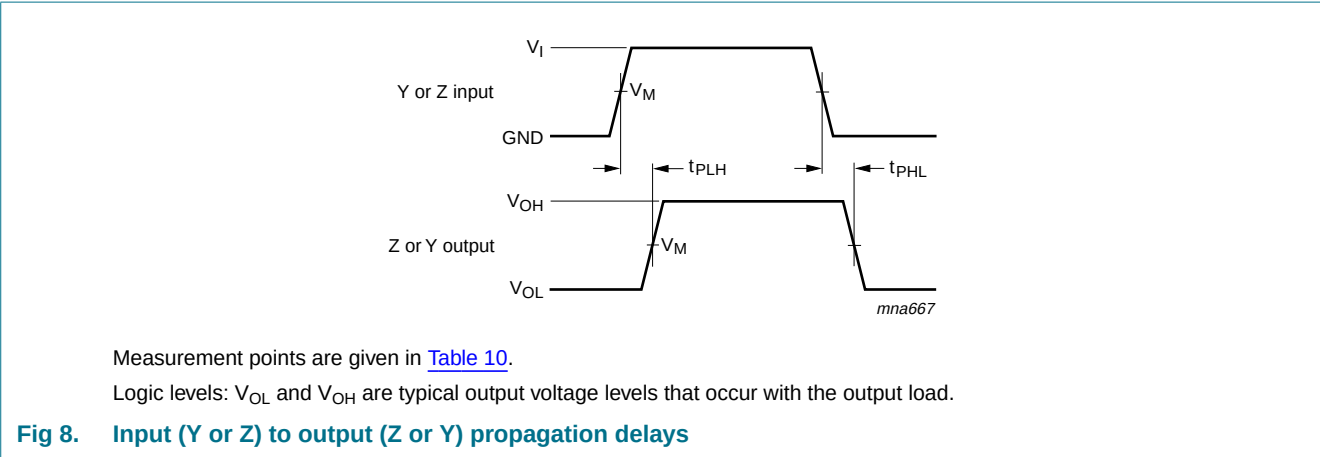
- [1] All typical values are measured at V_{CC} = 2.0 V, V_{CC} = 3.3 V, V_{CC} = 5.0 V and T_{amb} = 25 °C.
- [2]

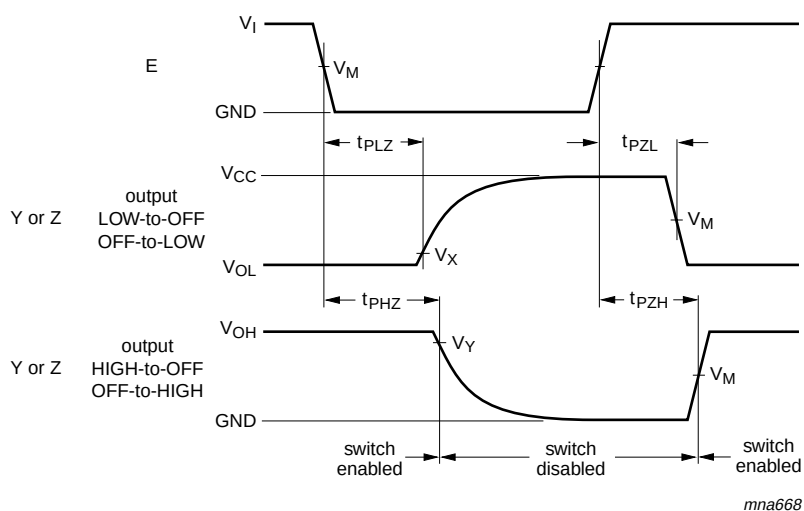
t_{pd} is the same as t_{PLH} and t_{PHL}.

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).
 $P_D = C_{PD} \times V_{CC}^2 \times f_i + \Sigma ((C_L \times C_{SW}) \times V_{CC}^2 \times f_o)$ where:
 f_i = input frequency in MHz;
 f_o = output frequency in MHz;
 C_L = output load capacitance in pF;
 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





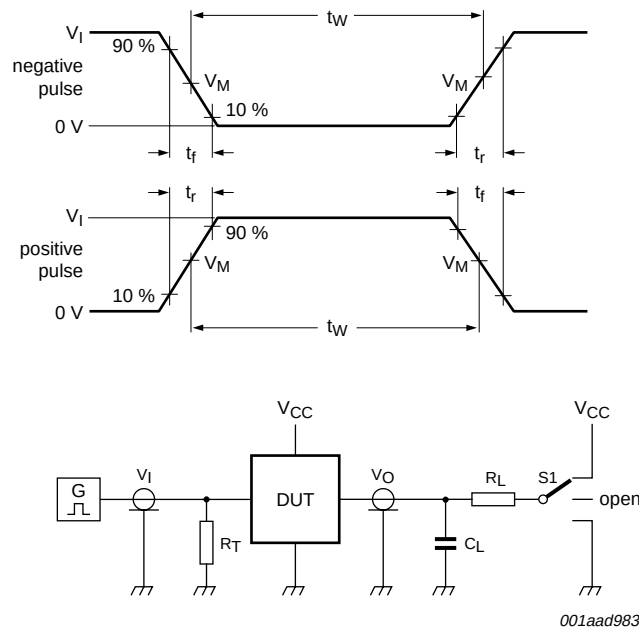
Measurement points are given in [Table 10](#).

Logic levels: V_{OL} and V_{OH} are typical output voltage levels that occur with the output load.

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	-	%

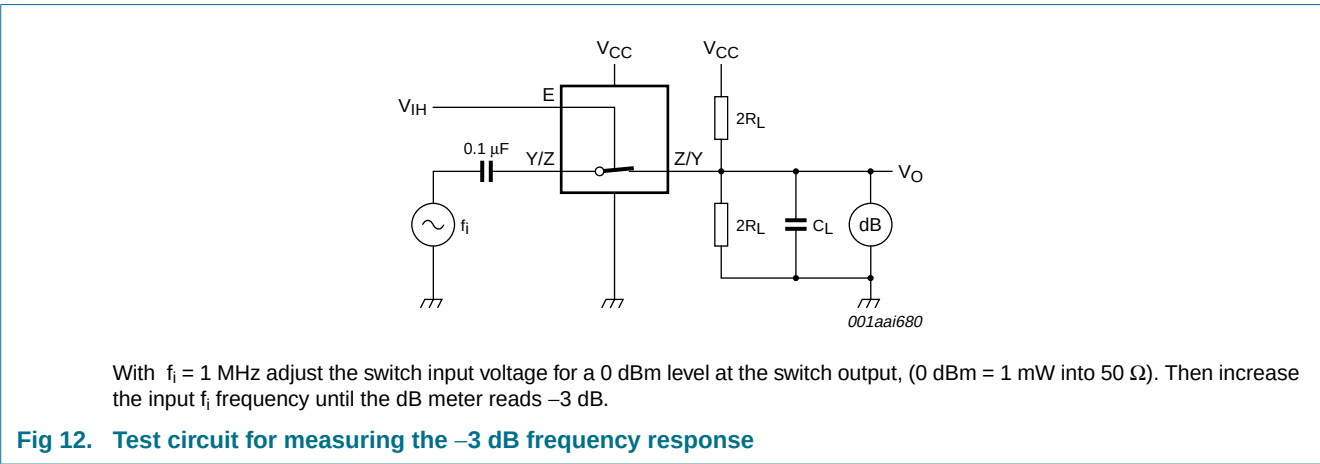
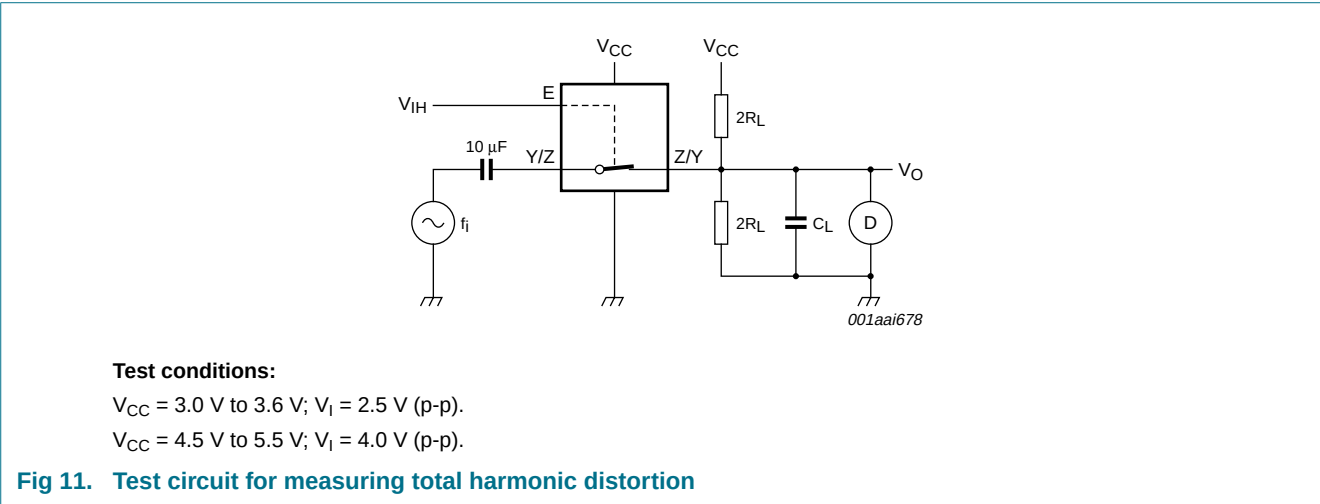
Table 12. Additional dynamic characteristics for 74AHC1G66 and 74AHCT1G66 ...continued

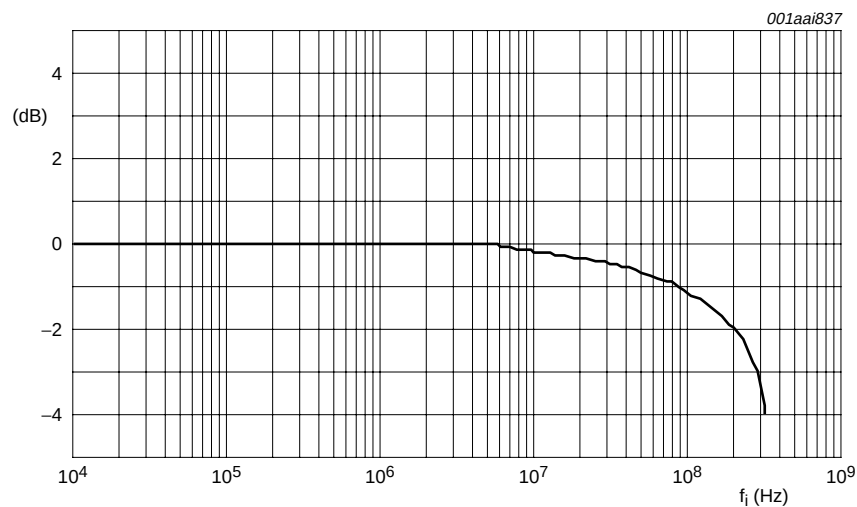
GND = 0 V; $t_r = t_f = 3.0\text{ ns}$; $C_L = 50\text{ pF}$; unless otherwise specified. All typical values are measured at $T_{amb} = 25\text{ }^{\circ}\text{C}$.

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).

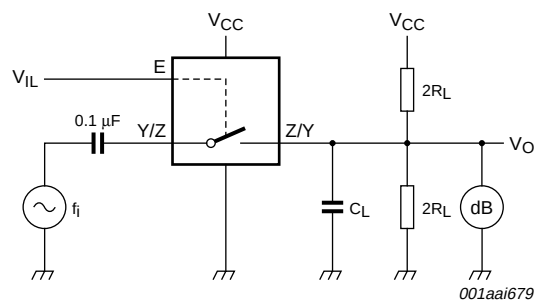
11.3 Test circuits and graphs





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

TSSOP5: plastic thin shrink small outline package; 5 leads; body width 1.25 mmSOT353-1

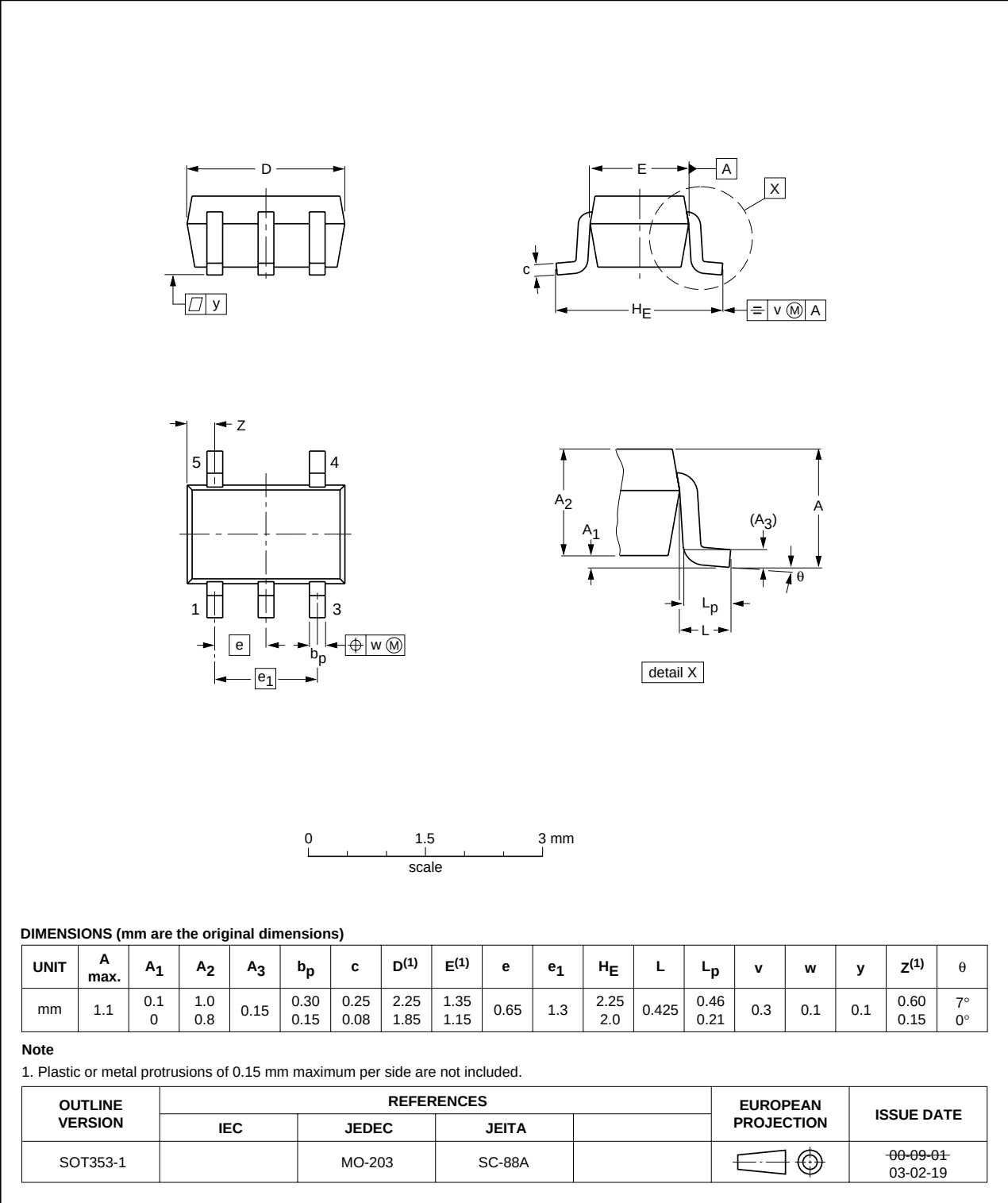


Fig 15. Package outline SOT353-1 (TSSOP5)

Plastic surface-mounted package; 5 leads

SOT753

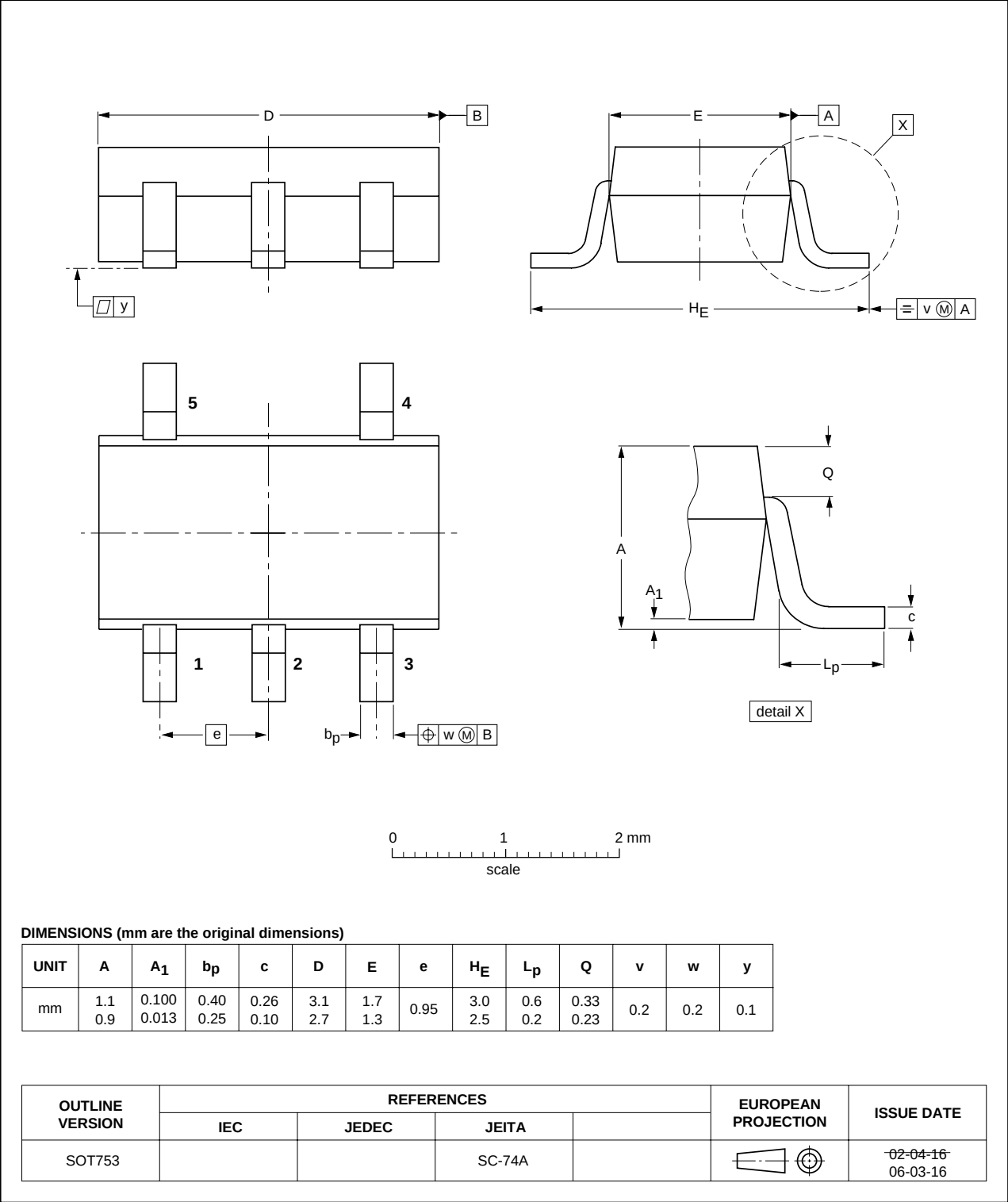


Fig 16. Package outline SOT753 (SC-74A)

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>.

15.2 Definitions

Draft — The document is a draft version only. The content is still under internal review and subject to formal approval, which may result in modifications or additions. NXP Semiconductors does not give any representations or warranties as to the accuracy or completeness of information included herein and shall have no liability for the consequences of use of such information.

Short data sheet — A short data sheet is an extract from a full data sheet with the same product type number(s) and title. A short data sheet is intended for quick reference only and should not be relied upon to contain detailed and full information. For detailed and full information see the relevant full data sheet, which is available on request via the local NXP Semiconductors sales office. In case of any inconsistency or conflict with the short data sheet, the full data sheet shall prevail.

15.3 Disclaimers

General — Information in this document is believed to be accurate and reliable. However, NXP Semiconductors does not give any representations or warranties, expressed or implied, as to the accuracy or completeness of such information and shall have no liability for the consequences of use of such information.

Right to make changes — NXP Semiconductors reserves the right to make changes to information published in this document, including without limitation specifications and product descriptions, at any time and without notice. This document supersedes and replaces all information supplied prior to the publication hereof.

Suitability for use — NXP Semiconductors products are not designed, authorized or warranted to be suitable for use in medical, military, aircraft, space or life support equipment, nor in applications where failure or

malfunction of an NXP Semiconductors product can reasonably be expected to result in personal injury, death or severe property or environmental damage. NXP Semiconductors accepts no liability for inclusion and/or use of NXP Semiconductors products in such equipment or applications and therefore such inclusion and/or use is at the customer's own risk.

Applications — Applications that are described herein for any of these products are for illustrative purposes only. NXP Semiconductors makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.

Limiting values — Stress above one or more limiting values (as defined in the Absolute Maximum Ratings System of IEC 60134) may cause permanent damage to the device. Limiting values are stress ratings only and operation of the device at these or any other conditions above those given in the Characteristics sections of this document is not implied. Exposure to limiting values for extended periods may affect device reliability.

Terms and conditions of sale — NXP Semiconductors products are sold subject to the general terms and conditions of commercial sale, as published at <http://www.nxp.com/profile/terms>, including those pertaining to warranty, intellectual property rights infringement and limitation of liability, unless explicitly otherwise agreed to in writing by NXP Semiconductors. In case of any inconsistency or conflict between information in this document and such terms and conditions, the latter will prevail.

No offer to sell or license — Nothing in this document may be interpreted or construed as an offer to sell products that is open for acceptance or the grant, conveyance or implication of any license under any copyrights, patents or other industrial or intellectual property rights.

15.4 Trademarks

Notice: All referenced brands, product names, service names and trademarks are the property of their respective owners.

16. Contact information

For more information, please visit: <http://www.nxp.com>

For sales office addresses, please send an email to: salesaddresses@nxp.com

17. Contents

1	General description	1
2	Features	1
3	Ordering information	1
4	Marking	2
5	Functional diagram	2
6	Pinning information	2
6.1	Pinning	2
6.2	Pin description	3
7	Functional description	3
8	Limiting values	3
9	Recommended operating conditions	3
10	Static characteristics	4
10.1	Test circuits	5
10.2	ON resistance	6
10.3	ON resistance test circuit and graphs	6
11	Dynamic characteristics	7
11.1	Waveforms and test circuit	8
11.2	Additional dynamic characteristics	10
11.3	Test circuits and graphs	11
12	Package outline	13
13	Abbreviations	15
14	Revision history	15
15	Legal information	16
15.1	Data sheet status	16
15.2	Definitions	16
15.3	Disclaimers	16
15.4	Trademarks	16
16	Contact information	16
17	Contents	17

Please be aware that important notices concerning this document and the product(s) described herein, have been included in section 'Legal information'.

founded by

PHILIPS

© NXP B.V. 2008.

All rights reserved.

For more information, please visit: <http://www.nxp.com>

For sales office addresses, please send an email to: salesaddresses@nxp.com

Date of release: 18 December 2008

Document identifier: 74AHC_AHCT1G66_4

AMEYA360

Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com