# 74HC2G08; 74HCT2G08

# Dual 2-input AND gate Rev. 5 — 8 October 2013

Product data sheet

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

The 74HC2G08; 74HCT2G08 is a dual 2-input AND gate. Inputs include clamp diodes. This enables the use of current limiting resistors to interface inputs to voltages in excess of V<sub>CC</sub>.

#### **Features and benefits** 2.

- Wide supply voltage range from 2.0 V to 6.0 V
- Input levels:
  - ◆ For 74HC2G08: CMOS level
  - ◆ For 74HCT2G08: TTL level
- Symmetrical output impedance
- High noise immunity
- Low power dissipation
- Balanced propagation delays
- Multiple package options
- ESD protection:
  - ♦ HBM JESD22-A114E exceeds 2000 V
  - ♦ MM JESD22-A115-A exceeds 200 V
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

## **Ordering information**

Table 1. **Ordering information** 

Type number	Package							
	Temperature range	Name	Description	Version				
74HC2G08DP	–40 °C to +125 °C	TSSOP8 plastic thin shrink small outline package; 8 leads;		SOT505-2				
74HCT2G08DP			body width 3 mm; lead length 0.5 mm					
74HC2G08DC	–40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads;	SOT765-1				
74HCT2G08DC			body width 2.3 mm					
74HC2G08GD	–40 °C to +125 °C	XSON8	places comments, the culture package, he leade,					
74HCT2G08GD			8 terminals; body $3 \times 2 \times 0.5$ mm					



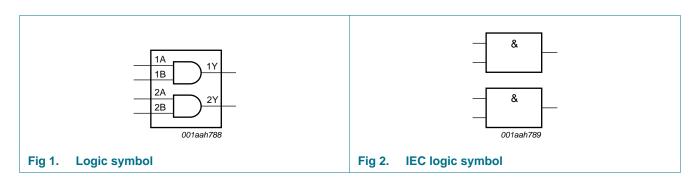
## 4. Marking

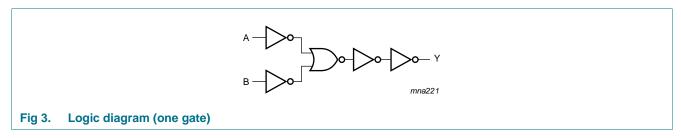
Table 2. Marking code

Type number	Marking code <sup>[1]</sup>
74HC2G08DP	H08
74HCT2G08DP	T08
74HC2G08DC	H08
74HCT2G08DC	T08
74HC2G08GD	H08
74HCT2G08GD	T08

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

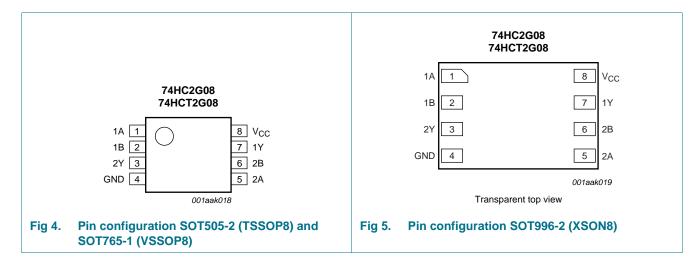
## 5. Functional diagram





## 6. Pinning information

#### 6.1 Pinning



## 6.2 Pin description

Table 3. Pin description

Symbol	Pin	Description
1A, 2A	1, 5	data input
1B, 2B	2, 6	data input
GND	4	ground (0 V)
1Y, 2Y	7, 3	data output
V <sub>CC</sub>	8	supply voltage

## 7. Functional description

Table 4. Function table[1]

Input	Output	
nA	nB	nY
L	L	L
L	Н	L
Н	L	L
Н	Н	Н

<sup>[1]</sup> 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 <sub>IK</sub>	input clamping current	$V_I < -0.5 \text{ V or } V_I > V_{CC} + 0.5 \text{ V}$	<u>[1]</u> -	±20	mA
I <sub>OK</sub>	output clamping current	$V_O < -0.5 \text{ V or } V_O > V_{CC} + 0.5 \text{ V}$	<u>[1]</u> -	±20	mA
I <sub>O</sub>	output current	$V_{O} = -0.5 \text{ V to } (V_{CC} + 0.5 \text{ V})$	<u>[1]</u> -	25	mA
I <sub>CC</sub>	supply current		<u>[1]</u> -	50	mA
$I_{GND}$	ground current		<u>[1]</u> –50	-	mA
T <sub>stg</sub>	storage temperature		<b>–65</b>	+150	°C
P <sub>D</sub>	dynamic power dissipation	$T_{amb} = -40  ^{\circ}\text{C} \text{ to } +125  ^{\circ}\text{C}$	[2] _	300	mW

<sup>[1]</sup> The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

## 9. Recommended operating conditions

Table 6. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	7	4HC2G0	8	7	4HCT2G	08	Unit
			Min	Тур	Max	Min	Тур	Max	
$V_{CC}$	supply voltage		2.0	5.0	6.0	4.5	5.0	5.5	V
$V_{I}$	input voltage		0	-	$V_{CC}$	0	-	$V_{CC}$	V
Vo	output voltage		0	-	$V_{CC}$	0	-	$V_{CC}$	V
T <sub>amb</sub>	ambient temperature		-40	+25	+125	-40	+25	+125	°C
$\Delta t/\Delta V$	input transition rise	$V_{CC} = 2.0 \text{ V}$	-	-	625	-	-	-	ns/V
	and fall rate	V <sub>CC</sub> = 4.5 V	-	1.67	139	-	1.67	139	ns/V
		$V_{CC} = 6.0 \text{ V}$	-	-	83	-	-	-	ns/V

<sup>[2]</sup> For TSSOP8 package: above 55 °C the value of  $P_{tot}$  derates linearly with 2.5 mW/K. For VSSOP8 package: above 110 °C the value of  $P_{tot}$  derates linearly with 8 mW/K. For XSON8 package: above 118 °C the value of  $P_{tot}$  derates linearly with 7.8 mW/K.

## 10. Static characteristics

Table 7. Static characteristics

Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	-40	°C to +8	5 °C	-40 °C to +125 °C		Unit
			Min	Typ[1]	Max	Min	Max	
74HC2G0	8			'	'			'
V <sub>IH</sub>	HIGH-level input	V <sub>CC</sub> = 2.0 V	1.5	1.2	-	1.5	-	V
	voltage	V <sub>CC</sub> = 4.5 V	3.15	2.4	-	3.15	-	V
		$V_{CC} = 6.0 \text{ V}$	4.2	3.2	-	4.2	-	V
V <sub>IL</sub>	LOW-level input	V <sub>CC</sub> = 2.0 V	-	0.8	0.5	-	0.5	V
	voltage	V <sub>CC</sub> = 4.5 V	-	2.1	1.35	-	1.35	V
		V <sub>CC</sub> = 6.0 V	-	2.8	1.8	-	1.8	V
V <sub>OH</sub>	HIGH-level output voltage	$V_I = V_{IH}$ or $V_{IL}$						
		$I_O = -20 \mu A; V_{CC} = 2.0 V$	1.9	2.0	-	1.9	-	V
		$I_O = -20 \mu A$ ; $V_{CC} = 4.5 V$	4.4	4.5	-	4.4	-	V
		$I_O = -20 \mu A; V_{CC} = 6.0 V$	5.9	6.0	-	5.9	-	V
		$I_{O} = -4.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	4.13	4.32	-	3.7	-	V
		$I_{O} = -5.2 \text{ mA}; V_{CC} = 6.0 \text{ V}$	5.63	5.81	-	5.2	-	V
$V_{OL}$	LOW-level output	$V_I = V_{IH}$ or $V_{IL}$						
	voltage	$I_O = 20 \mu A; V_{CC} = 2.0 V$	-	0	0.1	-	0.1	V
		$I_O = 20 \mu A; V_{CC} = 4.5 V$	-	0	0.1	-	0.1	V
		$I_O = 20 \mu A; V_{CC} = 6.0 V$	-	0	0.1	-	0.1	V
		$I_O = 4.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	0.15	0.33	-	0.4	V
		$I_O = 5.2 \text{ mA}; V_{CC} = 6.0 \text{ V}$	-	0.16	0.33	-	0.4	V
II	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 6.0 \text{ V}$	-	-	±1.0	-	±1.0	μΑ
I <sub>CC</sub>	supply current	per input pin; $V_1 = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 6.0$ V	-	-	10	-	20	μА
C <sub>I</sub>	input capacitance		-	1.5	-	-	-	pF

**Table 7. Static characteristics** ...continued Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	-40	-40 °C to +85 °C  Min Typ[1] Max		–40 °C t	o +125 °C	Unit
			Min			Min	Max	
74HCT2G	608		'					
V <sub>IH</sub>	HIGH-level input voltage	$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	2.0	1.6	-	2.0	-	V
$V_{IL}$	LOW-level input voltage	$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	-	1.2	8.0	-	8.0	V
$V_{OH}$	HIGH-level output	$V_I = V_{IH}$ or $V_{IL}$						
	voltage	$I_O = -20 \mu A$ ; $V_{CC} = 4.5 V$	4.4	4.5	-	4.4	-	V
		$I_{O} = -4.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	4.13	4.32	-	3.7	-	V
V <sub>OL</sub>	LOW-level output	$V_I = V_{IH}$ or $V_{IL}$						
	voltage	$I_O = 20 \mu A; V_{CC} = 4.5 V$	-	0	0.1	-	0.1	V
		$I_O = 4.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	0.15	0.33	-	0.4	V
l <sub>l</sub>	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$	-	-	±1.0	-	±1.0	μΑ
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$	-	-	10	-	20	μΑ
Δl <sub>CC</sub>	additional supply current	per input; $V_{CC} = 4.5 \text{ V to } 5.5 \text{ V};$ $V_I = V_{CC} - 2.1 \text{ V}; I_O = 0 \text{ A}$	-	-	375	-	410	μΑ
Cı	input capacitance		-	1.5	-	-	-	рF

<sup>[1]</sup> All typical values are measured at  $T_{amb}$  = 25 °C.

# 11. Dynamic characteristics

Table 8. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see <u>Figure 7</u>.

Symbol	Parameter	Conditions		-40 °C to +85 °C		-40 °C to +125 °C		Unit	
				Min	Typ[1]	Max	Min	Max	
74HC2G	08								
t <sub>pd</sub>	propagation delay	nA and nB to nY; see Figure 6	[2]						
		V <sub>CC</sub> = 2.0 V		-	26	95	-	110	ns
		V <sub>CC</sub> = 4.5 V		-	9	19	-	22	ns
		$V_{CC} = 5.0 \text{ V}; C_L = 15 \text{ pF}$		-	9	-	-	-	ns
		V <sub>CC</sub> = 6.0 V		-	8	16	-	20	ns
t <sub>t</sub>	transition time	see Figure 6	[3]						
		V <sub>CC</sub> = 2.0 V		-	20	95	-	125	ns
		V <sub>CC</sub> = 4.5 V		-	7	19	-	25	ns
		V <sub>CC</sub> = 6.0 V		-	6	16	-	20	ns
$C_{PD}$	power dissipation capacitance	$V_I = GND$ to $V_{CC}$	[4]	-	10	-	-	-	pF

 Table 8.
 Dynamic characteristics ...continued

Voltages are referenced to GND (ground = 0 V); for test circuit see Figure 7.

Symbol	Parameter	Conditions		-40 °C to +85 °C		-40 °C to +125 °C		Unit	
				Min	Typ[1]	Max	Min	Max	
74HCT20	G08								
t <sub>pd</sub>	propagation delay	nA and nB to nY; see Figure 6	[2]						
		$V_{CC} = 4.5 \text{ V}$		-	14	30	-	36	ns
		$V_{CC} = 5.0 \text{ V}; C_L = 15 \text{ pF}$		-	14	-	-	-	ns
t <sub>t</sub>	transition time	V <sub>CC</sub> = 4.5 V; see <u>Figure 6</u>	[3]	-	7	19	-	22	ns
$C_{PD}$	power dissipation capacitance	$V_I = GND \text{ to } V_{CC} - 1.5 \text{ V}$	[4]	-	10	-	-	-	pF

- [1] All typical values are measured at  $T_{amb}$  = 25 °C.
- [2]  $t_{pd}$  is the same as  $t_{PLH}$  and  $t_{PHL}$ .
- [3]  $t_t$  is the same as  $t_{TLH}$  and  $t_{THL}$ .
- [4]  $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu W$ ).

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

 $f_i$  = input frequency in MHz;

fo = output frequency in MHz;

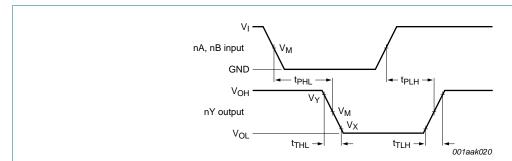
C<sub>L</sub> = output load capacitance in pF;

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

N = number of inputs switching;

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

### 12. Waveforms



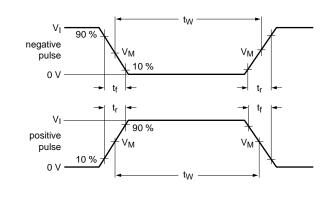
Measurement points are given in Table 9.

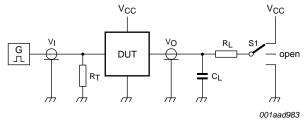
V<sub>OL</sub> and V<sub>OH</sub> are typical output voltage levels that occur with the output load.

Fig 6. Propagation delay data input (nA, nB) to data output (nY) and transition time output (nY)

Table 9. Measurement points

Туре	Input	Output					
	V <sub>M</sub>	V <sub>M</sub>	V <sub>Y</sub>				
74HC2G08	0.5V <sub>CC</sub>	0.5V <sub>CC</sub>	0.1V <sub>CC</sub>	0.9V <sub>CC</sub>			
74HCT2G08	1.3 V	1.3 V	0.1V <sub>CC</sub>	0.9V <sub>CC</sub>			





Test data is given in Table 10.

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<sub>L</sub> = Load resistance.

S1 = Test selection switch.

Fig 7. Test circuit for measuring switching times

Table 10. Test data

Туре	Input		Load		S1 position
	V <sub>I</sub>	t <sub>r</sub> , t <sub>f</sub>	C <sub>L</sub>	R <sub>L</sub>	t <sub>PHL</sub> , t <sub>PLH</sub>
74HC2G08	GND to $V_{CC}$	≤ 6 ns	15 pF, 50 pF	1 kΩ	open
74HCT2G08	GND to 3 V	≤ 6 ns	15 pF, 50 pF	1 kΩ	open

## 13. Package outline

TSSOP8: plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm SOT505-2

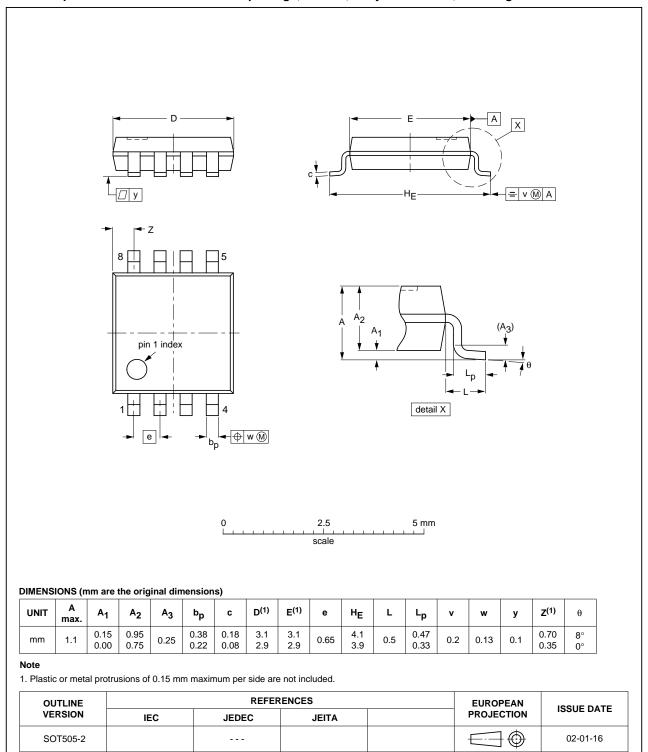
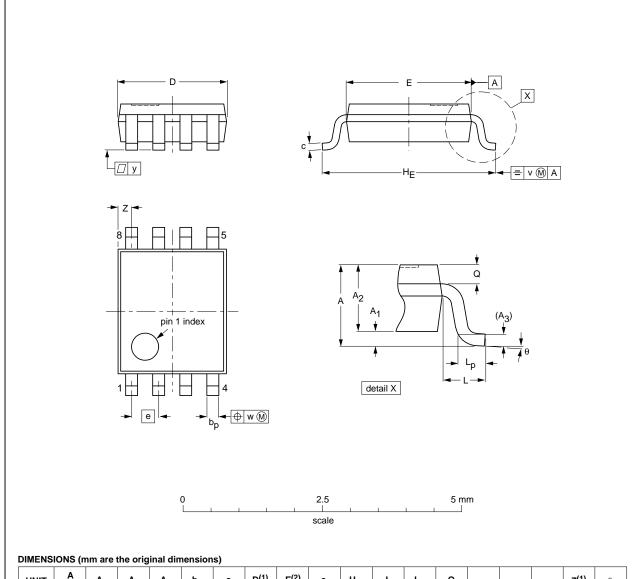


Fig 8. Package outline SOT505-2 (TSSOP8)

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#### VSSOP8: plastic very thin shrink small outline package; 8 leads; body width 2.3 mm

SOT765-1



UNIT	A max.	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	bp	С	D <sup>(1)</sup>	E <sup>(2)</sup>	е	HE	L	Lp	Q	v	w	у	Z <sup>(1)</sup>	θ
mm	1	0.15 0.00	0.85 0.60	0.12	0.27 0.17	0.23 0.08	2.1 1.9	2.4 2.2	0.5	3.2 3.0	0.4	0.40 0.15	0.21 0.19	0.2	0.13	0.1	0.4 0.1	8° 0°

- Plastic or metal protrusions of 0.15 mm maximum per side are not included.
   Plastic or metal protrusions of 0.25 mm maximum per side are not included.

OUTLINE		REFER	EUROPEAN	ISSUE DATE			
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE	
SOT765-1		MO-187				02-06-07	
	•	•		•			

Fig 9. Package outline SOT765-1 (VSSOP8)

74HC\_HCT2G08

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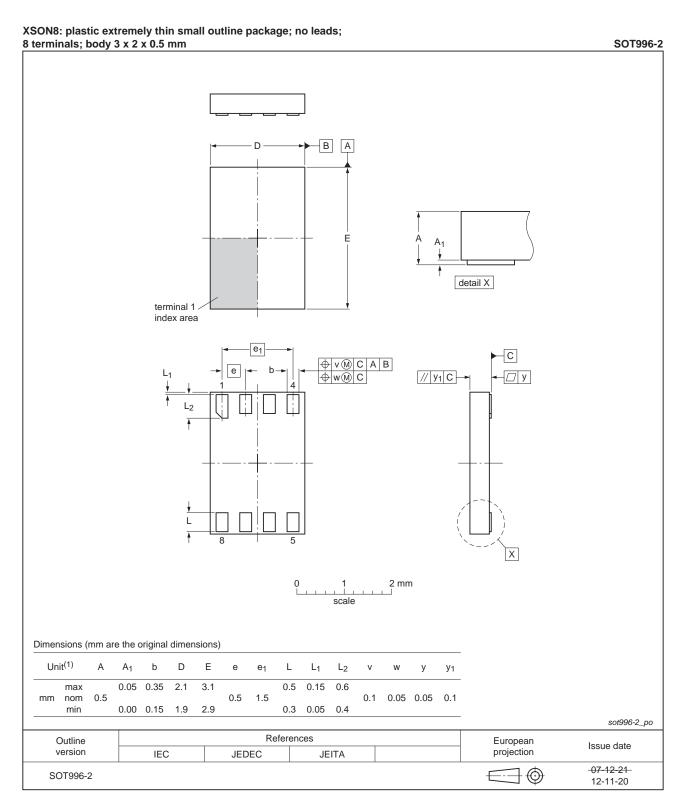


Fig 10. Package outline SOT996-2 (XSON8)

74HC\_HCT2G08

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## 14. Abbreviations

#### Table 11. Abbreviations

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

## 15. Revision history

#### Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74HC_HCT2G08 v.5	20131008	Product data sheet	-	74HC_HCT2G32 v.4
Modifications:	<ul> <li>For type null</li> </ul>	mbers 74HC2G08GD and 74	HCT2G08GD XSON8	U has changed to XSON8.
74HC_HCT2G08 v.4	20090507	Product data sheet	-	74HC_HCT2G08 v.3
74HC_HCT2G08 v.3	20031022	Product specification	-	74HC_HCT2G08 v.2
74HC_HCT2G08 v.2	20030203	Product specification	-	74HC_HCT2G08 v.1
74HC_HCT2G08 v.1	20020710	Product specification	-	-

## 16. Legal information

#### 16.1 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"
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#### 16.4 Trademarks

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#### 17. Contact information

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

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

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