

DATA SHEET

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74HC2G126; 74HCT2G126 Dual buffer/line driver; 3-state

Product specification

2003 Mar 03

Dual buffer/line driver; 3-state

74HC2G126; 74HCT2G126

FEATURES

- Wide operating voltage from 2.0 to 6.0 V
- Symmetrical output impedance
- High noise immunity
- Low power dissipation
- Balanced propagation delays
- Very small 8 pins package
- Output capability: bus driver
- ESD protection:
 - HBM EIA/JESD22-A114-A exceeds 2000 V
 - MM EIA/JESD22-A115-A exceeds 200 V
- Specified from –40 to +85 °C and –40 to +125 °C.

DESCRIPTION

The 74HC2G/HCT2G126 is a high-speed Si-gate CMOS device.

The 74HC2G/HCT2G126 provides one non-inverting buffer/line driver with 3-state output. The 3-state output is controlled by the output enable input pin (OE). A LOW at pin OE causes the output as assume a high-impedance OFF-state.

The bus driver output currents are equal compared to the 74HC/HCT126.

QUICK REFERENCE DATA

GND = 0 V; $T_{amb} = 25\text{ °C}$; $t_r = t_f \leq 6.0\text{ ns}$.

SYMBOL	PARAMETER	CONDITIONS	TYPICAL		UNIT
			HC2G	HCT2G	
t_{PHL}/t_{PLH}	propagation delay nA to nY	$C_L = 15\text{ pF}$; $V_{CC} = 5\text{ V}$	10	12	ns
C_I	input capacitance		1	1	pF
C_O	output capacitance		1.5	1.5	pF
C_{PD}	power dissipation capacitance per buffer	output enabled; notes 1 and 2	11	11	pF
		output disabled; notes 1 and 2	1	1	pF

Notes

1. C_{PD} is used to determine the dynamic power dissipation (P_D in μW).
 $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \Sigma(C_L \times V_{CC}^2 \times f_o)$ where:
 f_i = input frequency in MHz;
 f_o = output frequency in MHz;
 C_L = output load capacitance in pF;
 V_{CC} = supply voltage in Volts;
 N = total switching outputs;
 $\Sigma(C_L \times V_{CC}^2 \times f_o)$ = sum of the outputs.
2. For the 74HC2G126 the condition is $V_I = \text{GND to } V_{CC}$.
 For the 74HCT2G126 the condition is $V_I = \text{GND to } V_{CC} - 1.5\text{ V}$.

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FUNCTION TABLE

See note 1.

INPUT		OUTPUT
nOE	nA	nY
H	L	L
H	H	H
L	X	Z

Note

- H = HIGH voltage level;
L = LOW voltage level;
X = don't care;
Z = high-impedance OFF-state.

ORDERING INFORMATION

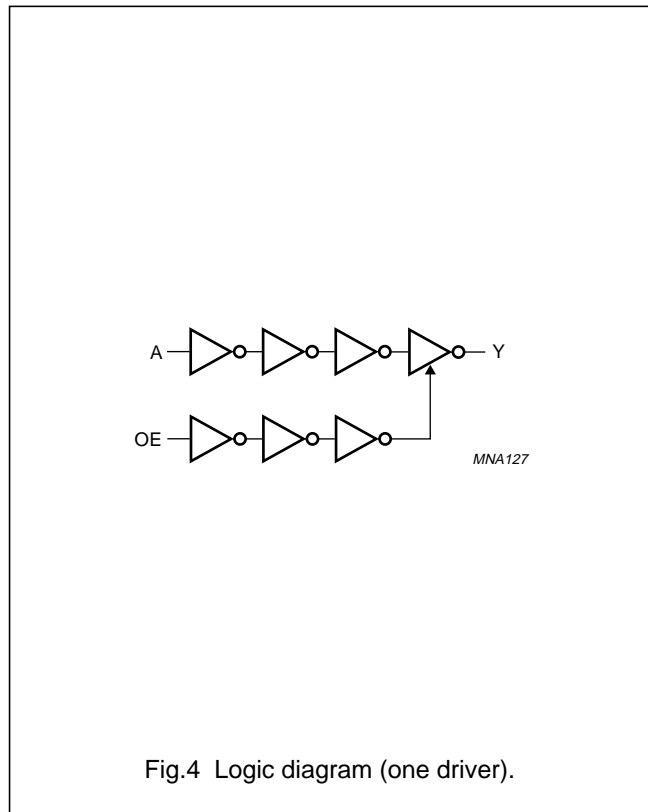
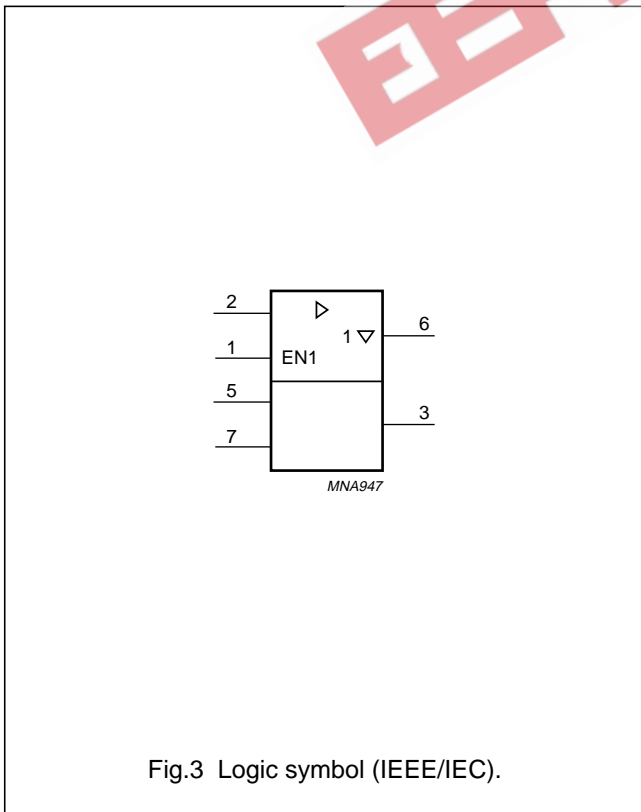
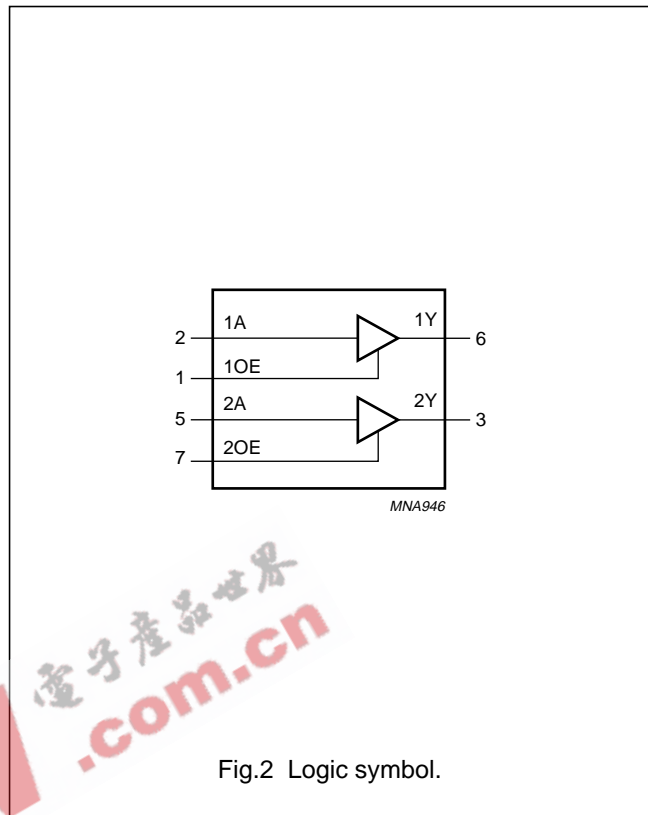
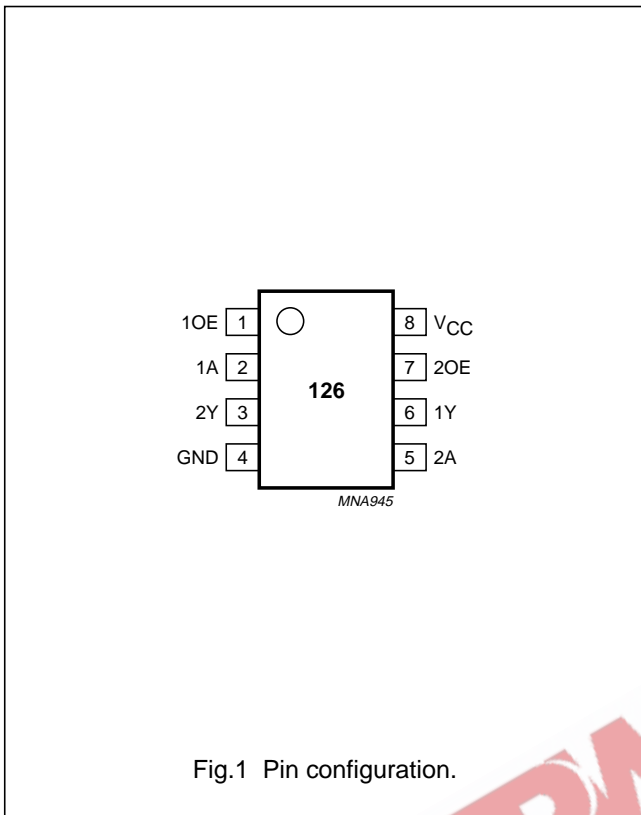
TYPE NUMBER	TEMPERATURE RANGE	PACKAGE				
		PINS	PACKAGE	MATERIAL	CODE	MARKING
74HC2G126DP	-40 to +125 °C	8	TSSOP8	plastic	SOT505-2	H26
74HCT2G126DP	-40 to +125 °C	8	TSSOP8	plastic	SOT505-2	T26
74HC2G126DC	-40 to +125 °C	8	VSSOP8	plastic	SOT765-1	H26
74HCT2G126DC	-40 to +125 °C	8	VSSOP8	plastic	SOT765-1	T26

PIN DESCRIPTION

PIN	SYMBOL	DESCRIPTION
1	1OE	output enable input
2	1A	data input
3	2Y	data output
4	GND	ground (0 V)
5	2A	data input
6	1Y	data output
7	2OE	output enable input
8	V _{CC}	supply voltage

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RECOMMENDED OPERATING CONDITIONS

SYMBOL	PARAMETER	CONDITIONS	74HC2G126			74HCT2G126			UNIT
			MIN.	TYP.	MAX.	MIN.	TYP.	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
V_O	output voltage		0	–	V_{CC}	0	–	V_{CC}	V
T_{amb}	operating ambient temperature	see DC and AC characteristics per device	–40	+25	+125	–40	+25	+125	°C
t_r, t_f	input rise and fall times	$V_{CC} = 2.0$ V	–	–	1000	–	–	–	ns
		$V_{CC} = 4.5$ V	–	6.0	500	–	6.0	500	ns
		$V_{CC} = 6.0$ V	–	–	400	–	–	–	ns

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 diode current	$V_I < -0.5$ V or $V_I > V_{CC} + 0.5$ V; note 1	–	±20	mA
I_{OK}	output diode current	$V_O < -0.5$ V or $V_O > V_{CC} + 0.5$ V; note 1	–	±20	mA
I_O	output source or sink current	-0.5 V < V_O < $V_{CC} + 0.5$ V; note 1	–	25	mA
I_{CC}, I_{GND}	V_{CC} or GND current	note 1	–	50	mA
T_{stg}	storage temperature		–65	+150	°C
P_D	power dissipation per package	for temperature range from –40 to +125 °C; note 2	–	300	mW

Notes

1. The input and output voltage ratings may be exceeded if the input and output current ratings are observed.
2. Above 110 °C the value of P_D derates linearly with 8 mW/K.

Dual buffer/line driver; 3-state

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DC CHARACTERISTICS

Type 74HC2G126

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

SYMBOL	PARAMETER	TEST CONDITIONS		MIN.	TYP. ⁽¹⁾	MAX.	UNIT
		OTHER	V _{CC} (V)				
T_{amb} = -40 to +85 °C							
V _{IH}	HIGH-level input voltage		2.0	1.5	1.2	–	V
			4.5	3.15	2.4	–	V
			6.0	4.2	3.2	–	V
V _{IL}	LOW-level input voltage		2.0	–	0.8	0.5	V
			4.5	–	2.1	1.35	V
			6.0	–	2.8	1.8	V
V _{OH}	HIGH-level output voltage	V _I = V _{IH} or V _{IL} I _O = -20 μA	2.0	1.9	2.0	–	V
		I _O = -20 μA	4.5	4.4	4.5	–	V
		I _O = -20 μA	6.0	5.9	6.0	–	V
		I _O = -6.0 mA	4.5	4.13	4.32	–	V
		I _O = -7.8 mA	6.0	5.63	5.81	–	V
V _{OL}	LOW-level output voltage	V _I = V _{IH} or V _{IL} I _O = 20 μA	2.0	–	0	0.1	V
		I _O = 20 μA	4.5	–	0	0.1	V
		I _O = 20 μA	6.0	–	0	0.1	V
		I _O = 6.0 mA	4.5	–	0.15	0.33	V
		I _O = 7.8 mA	6.0	–	0.16	0.33	V
I _{LI}	input leakage current	V _I = V _{CC} or GND	6.0	–	–	±1.0	μA
I _{oz}	3-state output OFF current	V _I = V _{IH} or V _{IL} ; V _O = V _{CC} or GND	6.0	–	–	±5.0	μA
I _{CC}	quiescent supply current	V _I = V _{CC} or GND; I _O = 0	6.0	–	–	10	μA

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SYMBOL	PARAMETER	TEST CONDITIONS		MIN.	TYP. ⁽¹⁾	MAX.	UNIT
		OTHER	V _{CC} (V)				
T_{amb} = -40 to +125 °C							
V _{IH}	HIGH-level input voltage		2.0	1.5	–	–	V
			4.5	3.15	–	–	V
			6.0	4.2	–	–	V
V _{IL}	LOW-level input voltage		2.0	–	–	0.5	V
			4.5	–	–	1.35	V
			6.0	–	–	1.8	V
V _{OH}	HIGH-level output voltage	V _I = V _{IH} or V _{IL} I _O = -20 μA	2.0	1.9	–	–	V
		I _O = -20 μA	4.5	4.4	–	–	V
		I _O = -20 μA	6.0	5.9	–	–	V
		I _O = -6.0 mA	4.5	3.7	–	–	V
		I _O = -7.8 mA	6.0	5.2	–	–	V
V _{OL}	LOW-level output voltage	V _I = V _{IH} or V _{IL} I _O = 20 μA	2.0	–	–	0.1	V
		I _O = 20 μA	4.5	–	–	0.1	V
		I _O = 20 μA	6.0	–	–	0.1	V
		I _O = 6.0 mA	4.5	–	–	0.4	V
		I _O = 7.8 mA	6.0	–	–	0.4	V
I _{LI}	input leakage current	V _I = V _{CC} or GND	6.0	–	–	±1.0	μA
I _{OZ}	3-state output OFF current	V _I = V _{IH} or V _{IL} ; V _O = V _{CC} or GND	6.0	–	–	±10.4	μA
I _{CC}	quiescent supply current	V _I = V _{CC} or GND; I _O = 0	6.0	–	–	20	μA

Note

1. All typical values are measured at T_{amb} = 25°C.

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Type 74HCT2G126

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

SYMBOL	PARAMETER	TEST CONDITIONS		MIN.	TYP. ⁽¹⁾	MAX.	UNIT
		OTHER	V _{CC} (V)				
T_{amb} = -40 to +85 °C							
V _{IH}	HIGH-level input voltage		4.5 to 5.5	2.0	1.6	–	V
V _{IL}	LOW-level input voltage		4.5 to 5.5	–	1.2	0.8	V
V _{OH}	HIGH-level output voltage	V _I = V _{IH} or V _{IL} I _O = -20 μA	4.5	4.4	4.5	–	V
		I _O = -6.0 mA	4.5	4.13	4.32	–	V
V _{OL}	LOW-level output voltage	V _I = V _{IH} or V _{IL} I _O = 20 μA	4.5	–	0	0.1	V
		I _O = 6.0 mA	4.5	–	0.15	0.33	V
I _{LI}	input leakage current	V _I = V _{CC} or GND	5.5	–	–	±1.0	μA
I _{OZ}	3-state output OFF current	V _I = V _{IH} or V _{IL} ; V _O = V _{CC} or GND	5.5	–	–	±5.0	μA
I _{CC}	quiescent supply current	V _I = V _{CC} or GND; I _O = 0	5.5	–	–	10	μA
ΔI _{CC}	additional supply current per input	V _I = V _{CC} - 2.1 V; I _O = 0	4.5 to 5.5	–	–	375	μA
T_{amb} = -40 to +125 °C							
V _{IH}	HIGH-level input voltage		4.5 to 5.5	2.0	–	–	V
V _{IL}	LOW-level input voltage		4.5 to 5.5	–	–	0.8	V
V _{OH}	HIGH-level output voltage	V _I = V _{IH} or V _{IL} I _O = -20 μA	4.5	4.4	–	–	V
		I _O = -6.0 mA	4.5	3.7	–	–	V
V _{OL}	LOW-level output voltage	V _I = V _{IH} or V _{IL} I _O = 20 μA	4.5	–	–	0.1	V
		I _O = 6.0 mA	4.5	–	–	0.4	V
I _{LI}	input leakage current	V _I = V _{CC} or GND	5.5	–	–	±1.0	μA
I _{OZ}	3-state output OFF current	V _I = V _{IH} or V _{IL} ; V _O = V _{CC} or GND	5.5	–	–	±10.4	μA
I _{CC}	quiescent supply current	V _I = V _{CC} or GND; I _O = 0	5.5	–	–	20	μA
ΔI _{CC}	additional supply current per input	V _I = V _{CC} - 2.1 V; I _O = 0	4.5 to 5.5	–	–	410	μA

Note

1. All typical values are measured at T_{amb} = 25°C.

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AC CHARACTERISTICS

Type 74HC2G126

GND = 0 V; $t_r = t_f \leq 6.0$ ns; $C_L = 50$ pF.

SYMBOL	PARAMETER	TEST CONDITIONS		MIN.	TYP. ⁽¹⁾	MAX.	UNIT
		WAVEFORMS	V _{CC} (V)				
T_{amb} = -40 to +85 °C							
t _{PHL} /t _{PLH}	propagation delay nA to nY	see Figs 5 and 7	2.0	–	35	115	ns
			4.5	–	11	23	ns
			6.0	–	8	20	ns
t _{PZH} /t _{PZL}	3-state output enable time nOE to nY	see Figs 6 and 7	2.0	–	40	115	ns
			4.5	–	11	23	ns
			6.0	–	8	20	ns
t _{PHZ} /t _{PLZ}	3-state output disable time nOE to nY	see Figs 6 and 7	2.0	–	25	125	ns
			4.5	–	12	25	ns
			6.0	–	10	21	ns
t _{THL} /t _{TLH}	output transition time	see Figs 5 and 7	2.0	–	18	75	ns
			4.5	–	6	15	ns
			6.0	–	5	13	ns
T_{amb} = -40 to +125 °C							
t _{PHL} /t _{PLH}	propagation delay nA to nY	see Figs 5 and 7	2.0	–	–	135	ns
			4.5	–	–	27	ns
			6.0	–	–	23	ns
t _{PZH} /t _{PZL}	3-state output enable time nOE to nY	see Figs 6 and 7	2.0	–	–	135	ns
			4.5	–	–	27	ns
			6.0	–	–	23	ns
t _{PHZ} /t _{PLZ}	3-state output disable time nOE to nY	see Figs 6 and 7	2.0	–	–	150	ns
			4.5	–	–	30	ns
			6.0	–	–	26	ns
t _{THL} /t _{TLH}	output transition time	see Figs 5 and 7	2.0	–	–	90	ns
			4.5	–	–	18	ns
			6.0	–	–	15	ns

Note

1. All typical values are measured at T_{amb} = 25°C.

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Type 74HCT2G126

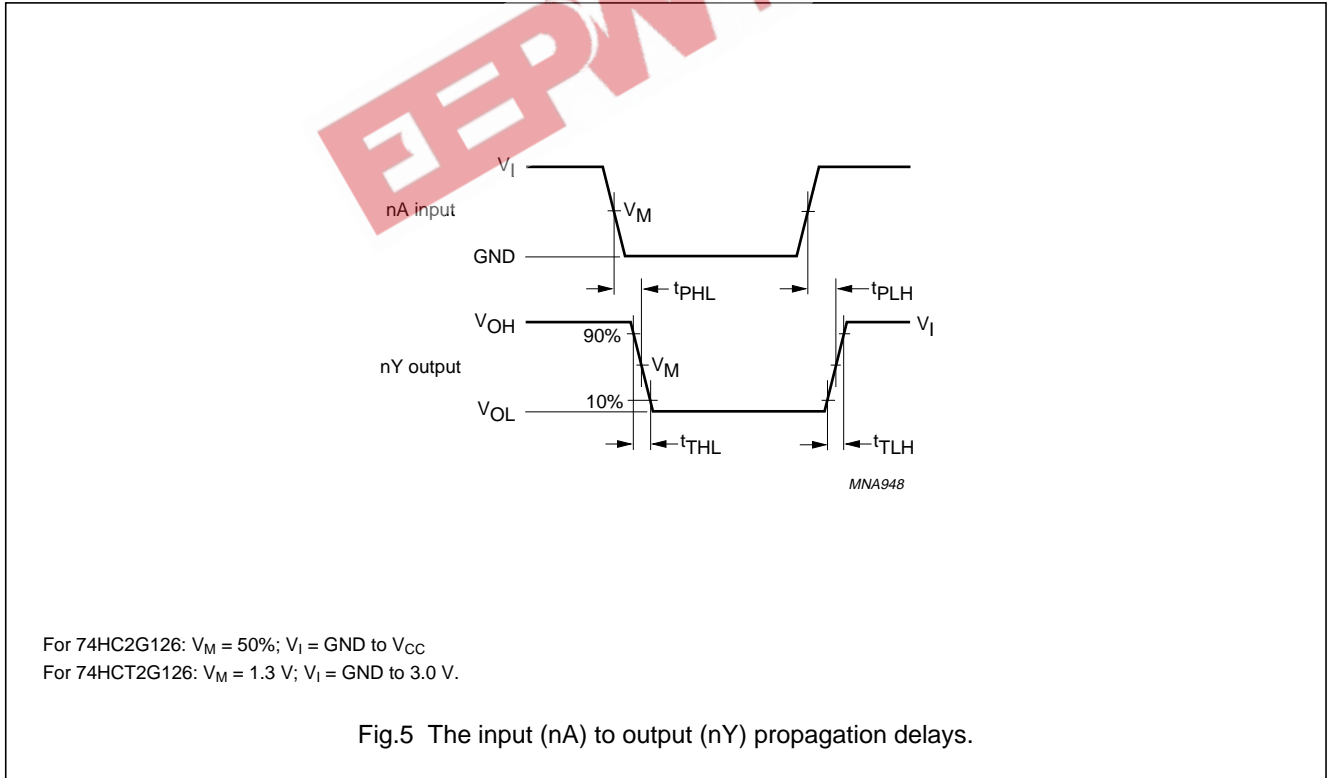
GND = 0 V; $t_r = t_f \leq 6.0$ ns; $C_L = 50$ pF.

SYMBOL	PARAMETER	TEST CONDITIONS		MIN.	TYP. ⁽¹⁾	MAX.	UNIT
		WAVEFORMS	V _{CC} (V)				
T_{amb} = -40 to +85 °C							
t _{PHL} /t _{PLH}	propagation delay nA to nY	see Figs 5 and 7	4.5	–	15	30	ns
t _{PZH} /t _{PZL}	3-state output enable time nOE to nY	see Figs 6 and 7	4.5	–	11	31	ns
t _{PHZ} /t _{PLZ}	3-state output disable time nOE to nY	see Figs 6 and 7	4.5	–	11	35	ns
t _{THL} /t _{TLH}	output transition time	see Figs 5 and 7	4.5	–	6	15	ns
T_{amb} = -40 to +125 °C							
t _{PHL} /t _{PLH}	propagation delay nA to nY	see Figs 5 and 7	4.5	–	–	36	ns
t _{PZH} /t _{PZL}	3-state output enable time nOE to nY	see Figs 6 and 7	4.5	–	–	38	ns
t _{PHZ} /t _{PLZ}	3-state output disable time nOE to nY	see Figs 6 and 7	4.5	–	–	42	ns
t _{THL} /t _{TLH}	output transition time	see Figs 5 and 7	4.5	–	–	18	ns

Note

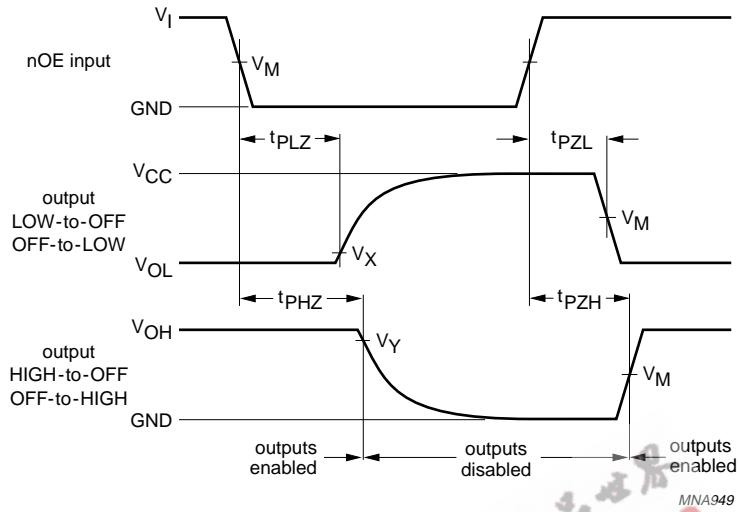
1. All typical values are measured at T_{amb} = 25°C.

AC WAVEFORMS



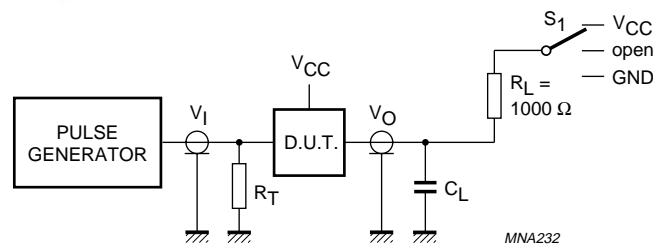
Dual buffer/line driver; 3-state

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For 74HC2G126: $V_M = 50\%$; $V_I = \text{GND to } V_{CC}$
 For 74HCT2G126: $V_M = 1.3 \text{ V}$; $V_I = \text{GND to } 3.0 \text{ V}$.

Fig.6 The 3-state enable and disable times.



TEST	S ₁
t _{PLH} /t _{PHL}	open
t _{PLZ} /t _{PZL}	V _{CC}
t _{PHZ} /t _{PZH}	GND

Definitions for test circuit:

C_L = Load capacitance including jig and probe capacitance (see "AC characteristics" for values).

R_L = Load resistance (see "AC characteristics" for values).

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

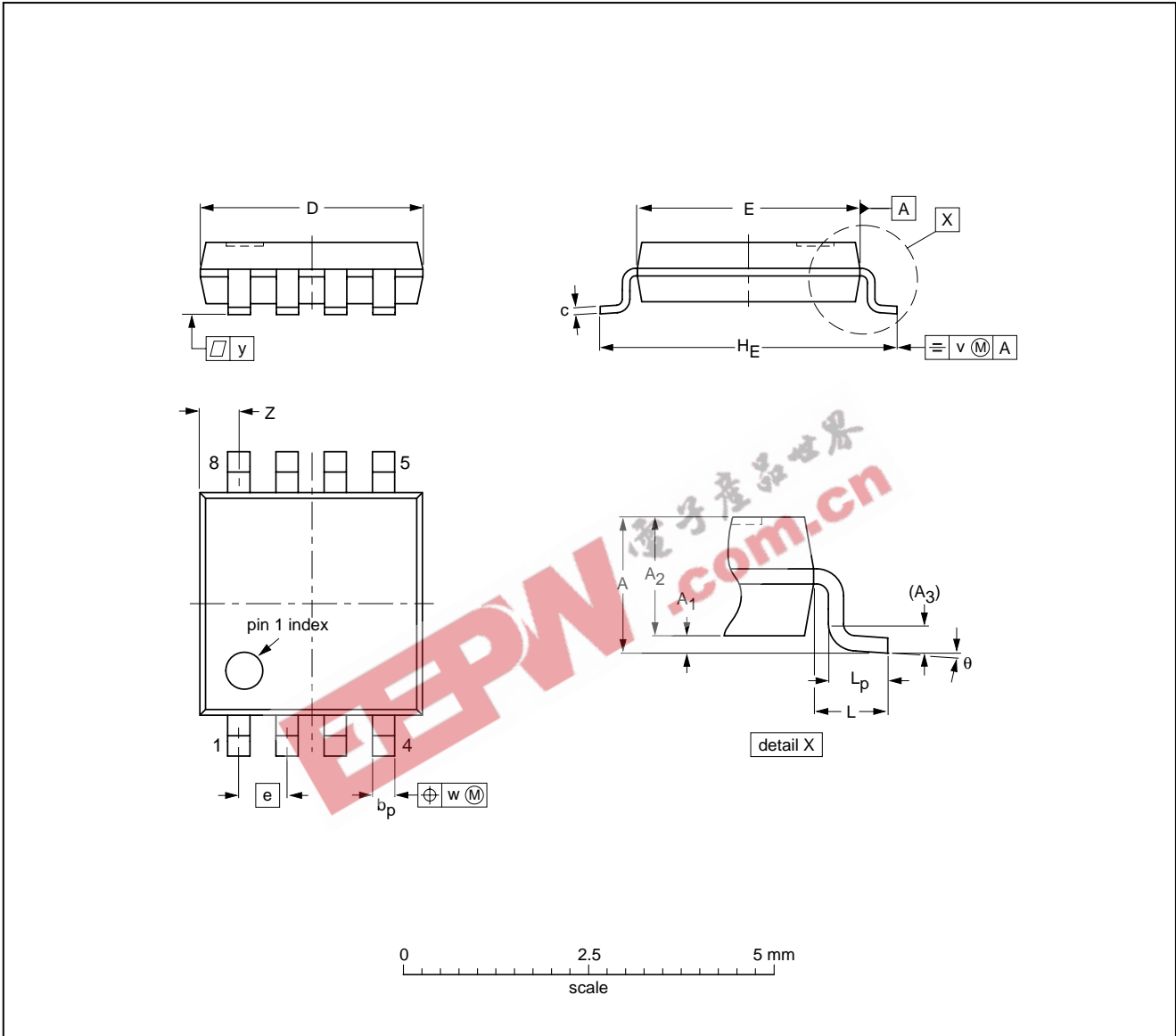
Fig.7 Load circuitry for switching times.

Dual buffer/line driver; 3-state

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PACKAGE OUTLINES

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



DIMENSIONS (mm are the original dimensions)

UNIT	A max.	A ₁	A ₂	A ₃	b _p	c	D ⁽¹⁾	E ⁽¹⁾	e	H _E	L	L _p	v	w	y	Z ⁽¹⁾	θ
mm	1.1	0.15 0.00	0.95 0.75	0.25	0.38 0.22	0.18 0.08	3.1 2.9	3.1 2.9	0.65	4.1 3.9	0.5	0.47 0.33	0.2	0.13	0.1	0.70 0.35	8° 0°

Note

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

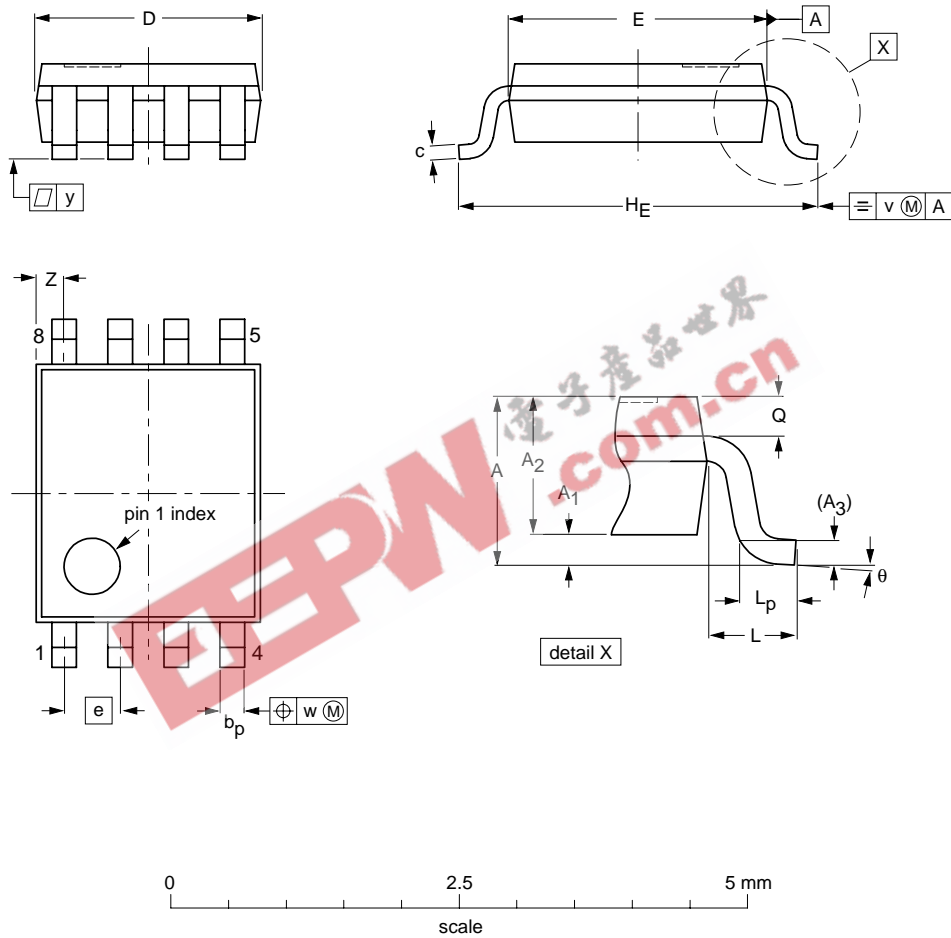
OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	JEITA			
SOT505-2		---				02-01-16

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

SOT765-1



DIMENSIONS (mm are the original dimensions)

UNIT	A max.	A ₁	A ₂	A ₃	b _p	c	D ⁽¹⁾	E ⁽²⁾	e	H _E	L	L _p	Q	v	w	y	Z ⁽¹⁾	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°

Notes

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

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

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SOLDERING**Introduction to soldering surface mount packages**

This text gives a very brief insight to a complex technology. A more in-depth account of soldering ICs can be found in our "Data Handbook IC26; Integrated Circuit Packages" (document order number 9398 652 90011).

There is no soldering method that is ideal for all surface mount IC packages. Wave soldering can still be used for certain surface mount ICs, but it is not suitable for fine pitch SMDs. In these situations reflow soldering is recommended.

Reflow soldering

Reflow soldering requires solder paste (a suspension of fine solder particles, flux and binding agent) to be applied to the printed-circuit board by screen printing, stencilling or pressure-syringe dispensing before package placement.

Several methods exist for reflowing; for example, convection or convection/infrared heating in a conveyor type oven. Throughput times (preheating, soldering and cooling) vary between 100 and 200 seconds depending on heating method.

Typical reflow peak temperatures range from 215 to 250 °C. The top-surface temperature of the packages should preferably be kept:

- below 220 °C for all the BGA packages and packages with a thickness ≥ 2.5 mm and packages with a thickness < 2.5 mm and a volume ≥ 350 mm³ so called thick/large packages
- below 235 °C for packages with a thickness < 2.5 mm and a volume < 350 mm³ so called small/thin packages.

Wave soldering

Conventional single wave soldering is not recommended for surface mount devices (SMDs) or printed-circuit boards with a high component density, as solder bridging and non-wetting can present major problems.

To overcome these problems the double-wave soldering method was specifically developed.

If wave soldering is used the following conditions must be observed for optimal results:

- Use a double-wave soldering method comprising a turbulent wave with high upward pressure followed by a smooth laminar wave.
- For packages with leads on two sides and a pitch (e):
 - larger than or equal to 1.27 mm, the footprint longitudinal axis is **preferred** to be parallel to the transport direction of the printed-circuit board;
 - smaller than 1.27 mm, the footprint longitudinal axis **must** be parallel to the transport direction of the printed-circuit board.

The footprint must incorporate solder thieves at the downstream end.

- For packages with leads on four sides, the footprint must be placed at a 45° angle to the transport direction of the printed-circuit board. The footprint must incorporate solder thieves downstream and at the side corners.

During placement and before soldering, the package must be fixed with a droplet of adhesive. The adhesive can be applied by screen printing, pin transfer or syringe dispensing. The package can be soldered after the adhesive is cured.

Typical dwell time is 4 seconds at 250 °C.

A mildly-activated flux will eliminate the need for removal of corrosive residues in most applications.

Manual soldering

Fix the component by first soldering two diagonally-opposite end leads. Use a low voltage (24 V or less) soldering iron applied to the flat part of the lead. Contact time must be limited to 10 seconds at up to 300 °C.

When using a dedicated tool, all other leads can be soldered in one operation within 2 to 5 seconds between 270 and 320 °C.

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Suitability of surface mount IC packages for wave and reflow soldering methods

PACKAGE ⁽¹⁾	SOLDERING METHOD	
	WAVE	REFLOW ⁽²⁾
BGA, LBGA, LFBGA, SQFP, TFBGA, VFBGA	not suitable	suitable
DHVQFN, HBCC, HBGA, HLQFP, HSQFP, HSOP, HTQFP, HTSSOP, HVQFN, HVSON, SMS	not suitable ⁽³⁾	suitable
PLCC ⁽⁴⁾ , SO, SOJ	suitable	suitable
LQFP, QFP, TQFP	not recommended ⁽⁴⁾⁽⁵⁾	suitable
SSOP, TSSOP, VSO, VSSOP	not recommended ⁽⁶⁾	suitable

Notes

1. For more detailed information on the BGA packages refer to the “(LF)BGA Application Note” (AN01026); order a copy from your Philips Semiconductors sales office.
2. All surface mount (SMD) packages are moisture sensitive. Depending upon the moisture content, the maximum temperature (with respect to time) and body size of the package, there is a risk that internal or external package cracks may occur due to vaporization of the moisture in them (the so called popcorn effect). For details, refer to the Drypack information in the “Data Handbook IC26; Integrated Circuit Packages; Section: Packing Methods”.
3. These packages are not suitable for wave soldering. On versions with the heatsink on the bottom side, the solder cannot penetrate between the printed-circuit board and the heatsink. On versions with the heatsink on the top side, the solder might be deposited on the heatsink surface.
4. If wave soldering is considered, then the package must be placed at a 45° angle to the solder wave direction. The package footprint must incorporate solder thieves downstream and at the side corners.
5. Wave soldering is suitable for LQFP, TQFP and QFP packages with a pitch (e) larger than 0.8 mm; it is definitely not suitable for packages with a pitch (e) equal to or smaller than 0.65 mm.
6. Wave soldering is suitable for SSOP, TSSOP, VSO and VSSOP packages with a pitch (e) equal to or larger than 0.65 mm; it is definitely not suitable for packages with a pitch (e) equal to or smaller than 0.5 mm.

Dual buffer/line driver; 3-state

74HC2G126; 74HCT2G126

DATA SHEET STATUS

LEVEL	DATA SHEET STATUS ⁽¹⁾	PRODUCT STATUS ⁽²⁾⁽³⁾	DEFINITION
I	Objective data	Development	This data sheet contains data from the objective specification for product development. Philips Semiconductors reserves the right to change the specification in any manner without notice.
II	Preliminary data	Qualification	This data sheet contains data from the preliminary specification. Supplementary data will be published at a later date. Philips Semiconductors reserves the right to change the specification without notice, in order to improve the design and supply the best possible product.
III	Product data	Production	This data sheet contains data from the product specification. Philips Semiconductors reserves the right to make changes at any time in order to improve the design, manufacturing and supply. Relevant changes will be communicated via a Customer Product/Process Change Notification (CPCN).

Notes

1. Please consult the most recently issued data sheet before initiating or completing a design.
2. The product status of the device(s) described in this data sheet may have changed since this data sheet was published. The latest information is available on the Internet at URL <http://www.semiconductors.philips.com>.
3. For data sheets describing multiple type numbers, the highest-level product status determines the data sheet status.

DEFINITIONS

Short-form specification — The data in a short-form specification is extracted from a full data sheet with the same type number and title. For detailed information see the relevant data sheet or data handbook.

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

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