



74LVC2G17

(Top View)

6 1Y

5 Vcc

11

2

DUAL SCHMITT TRIGGER BUFFERS

1A

GND

Description

The 74LVC2G17 is a dual Schmitt trigger buffer gate with standard push-pull outputs. The device is designed for operation with a power supply range of 1.65V to 5.5V. The inputs are tolerant to 5.5V allowing this device to be used in a mixed-voltage environment. The device is fully specified for partial power down applications using I_{OFF} . The I_{OFF} circuitry disables the output preventing damaging current backflow when the device is powered down.

The gate performs the positive Boolean function:

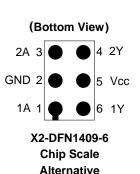
Y = A

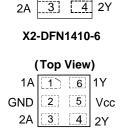
Features

- Wide Supply Voltage Range from 1.65V to 5.5V
- ±24mA Output Drive at 3.0V
- CMOS Low Power Consumption
- IOFF Supports Partial-Power-Down Mode Operation
- Inputs Accept up to 5.5V
- ESD Protection Tested per JESD 22
- Exceeds 2000V Human Body Model (A114)
- Exceeds 1000V Charged Device Model (C101)
- Latch-up Exceeds 100mA per JESD 78, Class I
- X2-DFN1409-6 Package Designed as a Direct Replacement for Chip Scale Packaging
- Range of Package Options SOT26, SOT363, X1-DFN1010-6 (Type B), X2-DFN1010-6, X2-DFN1409-6, and X2-DFN1410-6
- Leadless Packages Named per JESD30E
- Totally Lead-Free & Fully RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)
- For automotive applications requiring specific change control (i.e. parts qualified to AEC-Q100/101/104/200, PPAP capable, and manufactured in IATF 16949 certified facilities), please <u>contact us</u> or your local Diodes representative. <u>https://www.diodes.com/quality/product-definitions/</u>

(Top View) 1A 11 6 1Y GND 21 5 Vcc 2A 31 4 2Y SOT26/SOT363

Pin Assignments





X1-DFN1010-6 (Type B)

(Top View)							
1A	1	6	1Y				
GND	2	5	Vcc				
2A	3	4	2Y				

X2-DFN1010-6

Applications

- Voltage level shifting
- General-purpose logics
- Power down signal isolations
- Wide array of products such as:
 - PCs, networking, notebooks, netbooks, tablets
 - Computer peripherals, hard drives, SSD, CD/DVD ROM
 - TV, DVD, DVR, set-top boxes
 - Cell phones, personal navigations/GPS
 - MP3 players, cameras, video recorders

Notes:

No purposely added lead. Fully EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant.
See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.

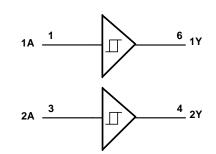
3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.



Pin Descriptions

-		
Pin Name	Pin Number	Function
1A	1	Data Input
GND	2	Ground
2A	3	Data Input
2Y	4	Data Output
V _{CC}	5	Supply Voltage
1Y	6	Data Output

Logic Diagram



Function Table

Inputs	Output
А	Y
Н	н
L	L

Absolute Maximum Ratings (Notes 4 & 5) (@T_A = +25°C, unless otherwise specified.)

Symbol	Parameter	Rating	Unit
ESD HBM	Human Body Model ESD Protection	2	kV
ESD CDM	Charged Device Model ESD Protection	1	kV
Vcc	Supply Voltage Range	-0.5 to +6.5	V
VI	Input Voltage Range	-0.5 to +6.5	V
Vo	Voltage Applied to Output in High Impedance or IOFF State	-0.5 to +6.5	V
Vo	Voltage Applied to Output in High or Low State	-0.3 to V _{CC} +0.5	V
lıк	Input Clamp Current VI < 0	-50	mA
I _{ОК}	Output Clamp Current V _O < 0	-50	mA
lo	Continuous Output Current	-50	mA
_	Continuous Current Through V _{DD} or GND	±100	mA
TJ	Operating Junction Temperature	-40 to +150	°C
T _{STG}	Storage Temperature	-65 to +150	°C

Note: 4. Stresses greater than those listed under Absolute Maximum Ratings can cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under Recommended Operating Conditions is not implied. Exposure to Absolute Maximum Ratings for extended periods can affect device reliability.

5. Forcing the maximum allowed voltage could cause a condition exceeding the maximum current or conversely forcing the maximum current could cause a condition exceeding the maximum voltage. The ratings of both current and voltage must be maintained within the controlled range.



Recommended Operating Conditions (Note 6) (@T_A = +25°C, unless otherwise specified.)

Symbol		Parameter	Min	Max	Unit
		Operating	1.65	5.5	V
V _{CC}	V _{CC} Operating Voltage	Data Retention Only	1.5	—	V
VI	Input Voltage		0	5.5	V
Vo	Output Voltage		0	V _{CC}	V
		$V_{CC} = 1.65 V$	—	-4	
		$V_{CC} = 2.3 V$	—	-8	
Юн	High-Level Output Current	V _{CC} = 3V	—	-16	mA
				-24	
		$V_{CC} = 4.5V$	—	-32	
		$V_{CC} = 1.65 V$	—	4	
		$V_{CC} = 2.3 V$	—	8	
I _{OL}	Low-Level Output Current		—	16	mA
		$V_{CC} = 3V$	—	24	
		$V_{CC} = 4.5V$	—	32	
T _A	Operating Free-Air Temperature	—	-40	+125	°C

Note: 6. Unused inputs should be held at V_{CC} or Ground.



Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

Cumula al	Devenueter	Test Canditions	N N	-40°C to	o +85°C	-40°C to	+125°C	11
Symbol	Parameter	Test Conditions	V _{cc}	Min	Max	Min	Max	Unit
			1.8V	0.70	1.50	0.70	1.70	
			2.3V	1.00	1.80	1.00	2.00	
V_{T+}	Positive-Going Input Threshold Voltage	_	3V	1.30	2.20	1.30	2.40	V
	Threshold Voltage		4.5V	1.90	3.10	1.90	3.30	
			5.5V	2.20	3.60	2.20	3.80	
			1.8V	0.25	0.90	0.25	1.10	
			2.3V	0.40	1.15	0.4	1.35	
V _T .	Negative-Going Input Threshold Voltage	_	3V	0.60	1.50	0.6	1.7	V
	Threshold Voltage		4.5V	1.00	2.00	1	2.2	
			5.5V	1.20	2.30	1.2	2.5	
			1.8V	0.15	1.00	0.15	1.2	
			2.3V	0.25	1.10	0.25	1.3	
ΔV_T Hysteresis (V _{T+} - V _{T-)}	_	3V	0.40	1.20	0.40	1.40	V	
		4.5V	0.60	1.50	0.60	1.70		
			5.5V	0.70	1.70	0.70	1.90	
		I _{OH} = -100μA	1.65V to 5.5V	V _{CC} - 0.1	_	V _{CC} – 0.1	_	
		I _{OH} = -4mA	1.65V	1.2	_	0.95		
.,	Lifet Level Octor (1) / alterna	I _{OH} = -8mA	2.3V	1.9	_	1.7		
V _{OH}	High-Level Output Voltage	I _{OH} = -16mA	0) (2.4	_	2.2		V
		I _{OH} = -24mA	3V	2.3	_	2.0		
		I _{OH} = -32mA	4.5V	3.8	_	3.4		
		I _{OL} = 100μA	1.65V to 5.5V	_	0.1	_	0.10	
		$I_{OL} = 4mA$	1.65V	_	0.45		0.70	
.,		I _{OL} = 8mA	2.3V	_	0.3		0.45	
Vol	Low-Level Output Voltage	$I_{OL} = 16 \text{mA}$	0.4	—	0.4	_	0.60	V
		$I_{OL} = 24 \text{mA}$	3V		0.55	—	0.80	
		$I_{OL} = 32mA$	4.5V	—	0.55	—	0.80	
lı	Input Current	$V_I = 5.5V$ or GND	0 to 5.5V	_	± 5	_	± 20	μA
I _{OFF}	Power Down Leakage Current	V_{I} or $V_{O} = 5.5V$	0	_	± 10	—	± 20	μA
Icc	Supply Current	$V_{I} = 5.5V \text{ or GND}, I_{O} = 0$	1.65V to 5.5V	_	10	_	40	μA



Symbol	Parameter	Package	Conditions	Min	Тур	Мах	Unit	
Cı	Input Capacitance	Typical of all packages	$V_{CC} = 3.3V$ $V_{I} = V_{CC}$ or GND	—	3.5	_	pF	
		SOT26		_	204	_		
		SOT363	7	_	371	_		
0	Thermal Resistance Junction-to-	X2-DFN1410-6	(Nata 7)	_	430	_	°C/W	
θ_{JA}	Ambient	X2-DFN1409-6	(Note 7)	_	450	_	-0/00	
		X1-DFN1010-6 (Type B)		_	495	_		
		X2-DFN1010-6	7	_	510	_		
		SOT26		_	52	_		
		SOT363		_	143	_		
0	Thermal Resistance Junction-to-	X2-DFN1410-6	(Nisto 7)	_	190	_	°C/W	
θ _{JC}	Case	X2-DFN1409-6	(Note 7)	_	225	_		
		X1-DFN1010-6 (Type B)]	_	245	_]	
1		X2-DFN1010-6	7	_	250			

Package Characteristics (@T_A = +25°C, V_{CC} = 3.3V, unless otherwise specified.)

Note: 7. Test condition for all packages: Device mounted on FR-4 substrate PC board, 2oz copper with minimum recommended pad layout.

Switching Characteristics

T _A = -40°C to +85°C, C _L = 30pF or 50pF (See Figure 1)											
Parameter From	-	To (Output)		= 1.8V .15V	••	= 2.5V).2V	••	= 3.3V).3V	V _{CC} ± 0	= 5V).5V	Unit
	(Input)	(Output)	Min	Max	Min	Max	Min	Max	Min	Max	
t _{PD}	А	Y	0.5	10.5	0.5	6.5	0.5	5.7	0.5	4.3	ns

$T_A = -40^{\circ}C$ to $+125^{\circ}C$, $C_L = 30pF$ or 50pF (See Figure 1)

Parameter From	-	To		= 1.8V .15V		= 2.5V).2V		: 3.3V .3V		= 5V).5V	Unit
	(Input)	(Output)	Min	Max	Min	Max	Min	Max	Min	Max	
t _{PD}	А	Y	0.5	13.1	0.5	8.5	0.5	7.1	0.5	5.4	ns

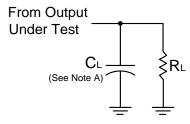
Operating Characteristics

Τ _A	=	+25°C	

	Parameter	Test Conditions	V _{CC} = 1.8V Typ	V _{CC} = 2.5V Typ	V _{CC} = 3.3V Typ	V _{CC} = 5V Typ	Unit
CPD	Power Dissipation Capacitance	f = 10MHz	17	19	20	21	pF



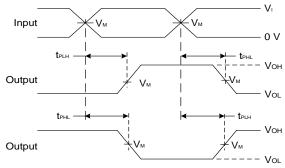
Parameter Measurement Information



Vee	Inp	outs	N _e	C	D.
V _{cc}	VI	t _R /t _F	V _M	CL	RL
1.8V ± 0.15V	V _{CC}	≤ 2ns	V _{CC} /2	30pF	1kΩ
2.5V ± 0.2V	Vcc	≤ 2ns	V _{CC} /2	30pF	500Ω
3.3V ± 0.3V	3V	≤ 2.5ns	1.5V	50pF	500Ω
5V ± 0.5V	V _{CC}	≤ 2.5ns	V _{CC} /2	50pF	500Ω



Voltage Waveform Pulse Duration



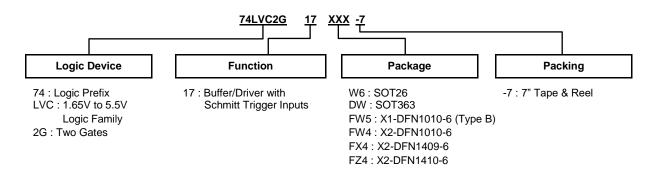
Voltage Waveform Propagation Delay Times Inverting and Non Inverting Outputs

Figure 1 Load Circuit and Voltage Waveforms

- Notes: A. Includes test lead and test apparatus capacitance.
 - B. All pulses are supplied at pulse repetition rate \leq 10MHz.
 - C. Inputs are measured separately one transition per measurement.
 - D. t_{PLH} and t_{PHL} are the same as t_{PD}



Ordering Information



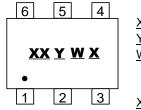
Part Number	Part Number	Package	Deekage (Nete 9)	Deekers Size	Packing (Note 9)	
Part Number	Suffix	Code	Package (Note 8)	Package Size	Qty.	Carrier
74LVC2G17W6-7	-7	W6	SOT26	2.8mm x 2.2mm x 1.1mm 0.95mm Lead Pitch	3000	Tape & Reel
74LVC2G17DW-7	-7	DW	SOT363	2.0mm x 2.0mm x 1.1mm 0.65mm Lead Pitch	3000	Tape & Reel
74LVC2G17FW5-7	-7	FW5	X1-DFN1010-6 (Type B)	1.0mm x 1.0mm x 0.5mm 0.35mm Pad Pitch	5000	Tape & Reel
74LVC2G17FW4-7	-7	FW4	X2-DFN1010-6	1.0mm x 1.0mm x 0.4mm 0.35mm Pad Pitch	5000	Tape & Reel
74LVC2G17FX4-7	-7	FX4	X2-DFN1409-6 Chip Scale Alternative	1.4mm x 0.9mm x 0.4mm 0.5mm Pad Pitch	5000	Tape & Reel
74LVC2G17FZ4-7	-7	FZ4	X2-DFN1410-6	1.4mm x 1.0mm x 0.4mm 0.5mm Pad Pitch	5000	Tape & Reel

Notes: 8. Pad layout as shown on Diodes Incorporated's website at http://www.diodes.com/package-outlines.html.

9. The taping orientation is located on our website at https://www.diodes.com/assets/Packaging-Support-Docs/ap02007.pdf.

Marking Information

(1) SOT26, SOT363



<u>XX</u>: Identification Code <u>Y</u>: Year 0 to 9 (ex: 2 = 2022) <u>W</u>: Week: A to Z: Week 1 to 26; a to z: Week 27 to 52; z Represents Week 52 and 53 <u>X</u>: A to Z: Internal Code

Part Number	Package	Identification Code
74LVC2G17W6-7	SOT26	Z6
74LVC2G17DW-7	SOT363	Z6



Marking Information (continued)

(2) X1-DFN1010-6 (Type B), X2-DFN1010-6, X2-DFN1409-6, X2-DFN1410-6

(Top View)

	XX: Identification Code
XX	<u>Y</u> : Year 0 to 9 (ex: 2 = 2022)
YWX	W: Week: A to Z: Week 1 to 26;
•	a to z: Week 27 to 52; z Represents
	Week 52 and 53

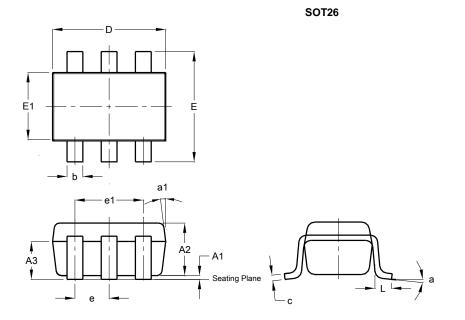
X: A to Z: Internal Cod	е
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Part Number	Package	Identification Code
74LVC2G17FW4-7	X2-DFN1010-6	Z6
74LVC2G17FW5-7	X1-DFN1010-6 (Type B)	W6
74LVC2G17FX4-7	X2-DFN1409-6	X6
74LVC2G17FZ4-7	X2-DFN1410-6	Z6



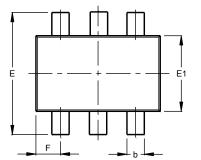
Package Outline Dimensions

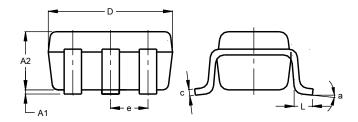
Please see http://www.diodes.com/package-outlines.html for the latest version.



SOT26				
Dim	Min	Max	Тур	
A1	0.013	0.10	0.05	
A2	1.00	1.30	1.10	
A3	0.70	0.80	0.75	
b	0.35	0.50	0.38	
С	0.10	0.20	0.15	
D	2.90	3.10	3.00	
е	-	-	0.95	
e1	-	-	1.90	
Е	2.70	3.00	2.80	
E1	1.50	1.70	1.60	
L	0.35	0.55	0.40	
а	-	-	8°	
a1	-	-	7°	
All	All Dimensions in mm			

SOT363



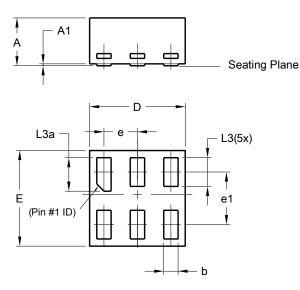


	SOT363			
Dim	Min	Max	Тур	
A1	0.00	0.10	0.05	
A2	0.90	1.00	0.95	
b	0.10	0.30	0.25	
С	0.10	0.22	0.11	
D	1.80	2.20	2.15	
Е	2.00	2.20	2.10	
E1	1.15	1.35	1.30	
е	C).650 E	SC	
F	0.40	0.45	0.425	
L	0.25	0.40	0.30	
а	0°	8°		
All I	All Dimensions in mm			



Package Outline Dimensions (continued)

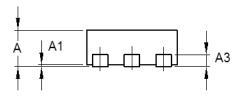
Please see http://www.diodes.com/package-outlines.html for the latest version.

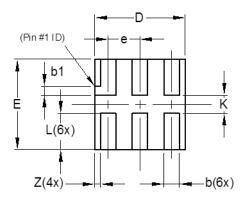


	X1-DFN1010-6 (Type B)				
Dim	Min	Max	Тур		
Α	-	0.50	0.39		
A1	-	0.04	-		
b	0.12	0.20	0.15		
D	0.95	1.050	1.00		
Е	0.95	1.050	1.00		
е	0.35 BSC				
e1	0.55 BSC				
L3	0.27	0.30	0.30		
L3a	0.32	0.40	0.35		
All	Dimen	All Dimensions in mm			

X2-DFN1010-6

X1-DFN1010-6 (Type B)



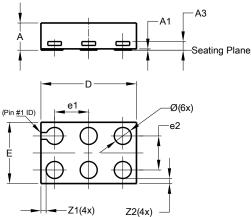


	X2-DFN1010-6				
Dim	Min	Max	Тур		
Α		0.40	0.39		
A1	0.00	0.05	0.02		
A3			0.13		
b	0.14	0.20	0.17		
b1	0.05	0.15	0.10		
D	0.95	1.05	1.00		
E	0.95	1.05	1.00		
е	-	_	0.35		
L	0.35	0.45	0.40		
K	0.15	_			
Z			0.065		
Α	All Dimensions in mm				



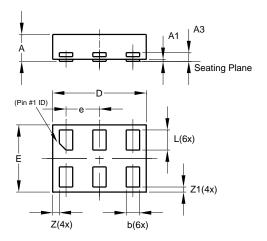
Package Outline Dimensions (continued)

Please see http://www.diodes.com/package-outlines.html for the latest version.



	X2-DFN1409-6			
Dim	Min	Max	Тур	
Α	-	0.40	0.39	
A1	0	0.05	0.02	
A3	-	-	0.13	
Ø	0.20	0.30	0.25	
D	1.35	1.45	1.40	
E	0.85	0.95	0.90	
e1	-	-	0.50	
e2	-	-	0.50	
Z1	-	-	0.075	
Z2	-	-	0.075	
All I	All Dimensions in mm			

X2-DFN1410-6



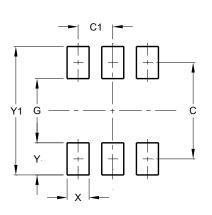
	X2-DFN1410-6			
Dim	Min	Max	Тур	
Α		0.40	0.39	
A1	0.00	0.05	0.02	
A3			0.13	
b	0.15	0.25	0.20	
D	1.35	1.45	1.40	
ш	0.95	1.05	1.00	
e			0.50	
L	0.25	0.35	0.30	
Z			0.10	
Z1	0.045	0.105	0.075	
All [All Dimensions in mm			

X2-DFN1409-6



Suggested Pad Layout

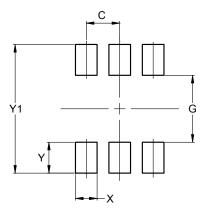
Please see http://www.diodes.com/package-outlines.html for the latest version.



Dimensions	Value (in mm)
С	2.40
C1	0.95
G	1.60
Х	0.55
Y	0.80
Y1	3.20

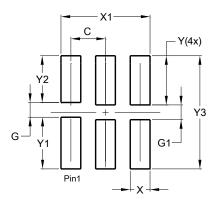
SOT363

SOT26



Dimensions	Value (in mm)
С	0.650
G	1.300
Х	0.420
Y	0.600
Y1	2.500

X1-DFN1010-6 (Type B)

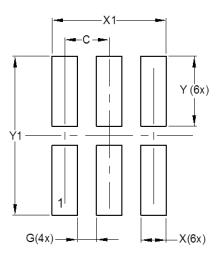


Dimensions	Value (in mm)
С	0.350
G	0.150
G1	0.150
Х	0.200
X1	0.900
Y	0.500
Y1	0.525
Y2	0.475
Y3	1.150



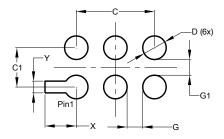
Suggested Pad Layout (continued)

Please see http://www.diodes.com/package-outlines.html for the latest version.



Dimensions	Value (in mm)
С	0.350
G	0.150
X	0.200
X1	0.900
Y	0.550
Y1	1.250

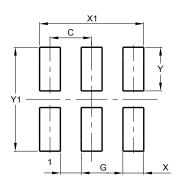
X2-DFN1409-6



Dimensions	Value
	(in mm)
С	1.000
C1	0.500
D	0.300
G	0.200
G1	0.200
Х	0.400
Y	0.150

F

X2-DFN1410-6



Dimensions	Value (in mm)
С	0.500
G	0.250
Х	0.250
X1	1.250
Y	0.525
Y1	1.250

X2-DFN1010-6



Mechanical Data

SOT26

- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Finish Matte Tin Plated Leads, Solderable per MIL-STD-202, Method 208 (3)
- Weight: 0.016 grams (Approximate)

SOT363

- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Finish Matte Tin Plated Leads, Solderable per MIL-STD-202, Method 208 (3)
- Weight: 0.006 grams (Approximate)

X1-DFN1010-6 (Type B)

- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Finish NiPdAu Nickel Palladium Gold, Solderable per MIL-STD-202, Method 208 @
- Weight: 0.001 grams (Approximate)

X2-DFN1010-6

- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Finish NiPdAu Nickel Palladium Gold, Solderable per MIL-STD-202, Method 208 🕑
- Weight: 0.001 grams (Approximate)

X2-DFN1409-6

- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Finish NiPdAu Nickel Palladium Gold, Solderable per MIL-STD-202, Method 208 @
- Weight: 0.002 grams (Approximate)

X2-DFN1410-6

- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Finish NiPdAu Nickel Palladium Gold, Solderable per MIL-STD-202, Method 208 @
- Weight: 0.002 grams (Approximate)



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