



New Product Announcement

LVC LOGIC

Diodes single gate logic now in small DFN package

New Product Package

- DFN1410
- Small Footprint
1.0 mm X 1.4 mm
- Very thin
0.4 mm height
- Lead Pitch
0.5 mm

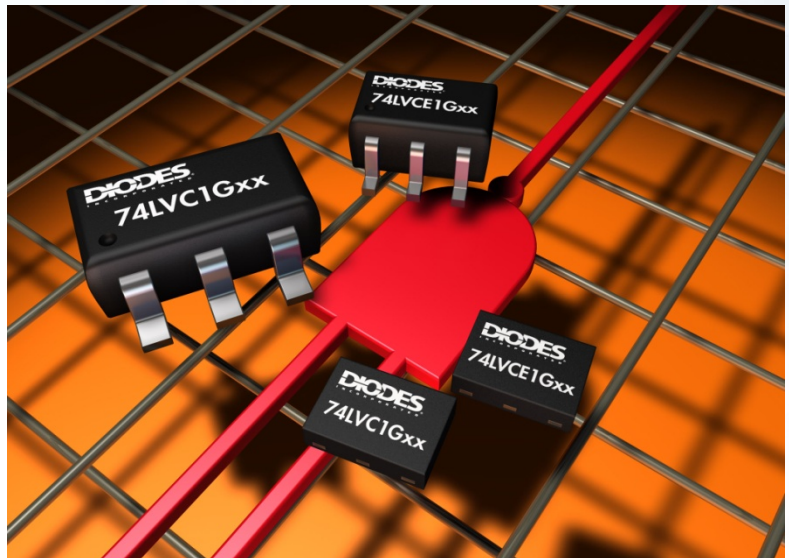
Family Description

The 74LVC1Gxx is a series of single gate logic devices that are direct replacements for the industry standard LVC1G products.

LVC operates over a supply voltage range of 1.65 to 5.5V

Ten popular functions in two packages are now available.

The LVCE1Gxx is an upgrade of standard LVC offering and uses one of the most advanced 5 volt CMOS processes. Better control of transistor threshold voltage allows for improved speed and lower voltage operation.



The Diodes advantage

- **New DFN1410 package**
The package is 33% thinner than some of the other options .
- **Your product can now be smaller, lighter, and thinner**
Today's leading products are small and thin. The DFN1410 package will allow the use of 74LVC1Gxx logic in very small products including touch screen phones and touch screen computing devices.
- **Direct Replacement**
The LVC1Gxx series offers a direct replacement for the industry standard LVC providing better value and improved availability.
- **Chip Scale Alternative**
The footprint is similar to a chip scale package. This DFN1410 is a good solution for products that can accommodate 0.4 mm height. The packaged part uses less silicon and is more economical than chip scale solution.



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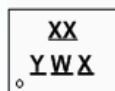
Ordering information

Device Family 74LVC1G	Package marking info	Device Family 74LVCE1G	Package marking info
74LVC1G00FZ4-7	US Y W X	74LVC1G00FZ4-7	PS Y W X
74LVC1G02FZ4-7	UT Y W X	74LVC1G02FZ4-7	PT Y W X
74LVC1G04FZ4-7	UU Y W X	74LVC1G04FZ4-7	PU Y W X
74LVC1G06FZ4-7	UM Y W X	74LVC1G06FZ4-7	PM Y W X
74LVC1G07FZ4-7	UN Y W X	74LVC1G07FZ4-7	PN Y W X
74LVC1G08FZ4-7	UV Y W X	74LVC1G08FZ4-7	PV Y W X
74LVC1G32FZ4-7	UW Y W X	74LVC1G32FZ4-7	PW Y W X
74LVC1G86FZ4-7	UX Y W X	74LVC1G86FZ4-7	PX Y W X
74LVC1G125FZ4-7	UY Y W X	74LVC1G125FZ4-7	PY Y W X
74LVC1G126FZ4-7	UZ Y W X	74LVC1G126FZ4-7	PZ Y W X

Packaging	Reel size	Tape width	Quantity
DFN1410	7"	12mm	5000

Marking Information

(Top View)



XX : Identification Code
 Y : Year : 0~9
 W : Week : A~Z : 1~26 week;
 a~z : 27~52 week; z represents
 52 and 53 week
 X : A~Z : Internal code

To find out more information or view datasheets:
<http://www.diodes.com/logic>

All variants are in packages that are "Green" Molding Compound (No Br, Sb) with Lead Free Finish/RoHS Compliant in agreement with EU Directive 2002/95/EC (RoHS). All applicable RoHS exemptions applied, see EU Directive 2002/95/EC Annex Notes.

Diodes Single Gate LVC Logic Cross Reference

Diodes Device	Package	Description	Toshiba	TI	NXP	ON	Fairchild
74LVC1G00W5	SOT-25	NAND Gate	TC7SZ00F	SN74LVC1G00DBV	74LVC1G00GV		NC7SZ00M5X
74LVC1G00SE	SOT-353	NAND Gate	TC7SZ00FU	SN74LVC1G00DCK	74LVC1G00GW	NL17SZ00DF	NC7SZ00P5X
74LVC1G00FZ4	DFN1410	NAND Gate		SN74LVC1G00DRY	74LVC1G00GM		NC7SZ00L6X
74LVC1G02W5	SOT-25	NOR Gate	TC7SZ02F	SN74LVC1G02DBV	74LVC1G02GV		NC7SZ02M5X
74LVC1G02SE	SOT-353	NOR Gate	TC7SZ02FU	SN74LVC1G02DCK	74LVC1G02GW	NL17SZ02DF	NC7SZ02P5X
74LVC1G02FZ4	DFN1410	NOR Gate		SN74LVC1G02DRY	74LVC1G02GM		NC7SZ02L6X
74LVC1G04W5	SOT-25	Single Inverter	TC7SZ04F	SN74LVC1G04DBV	74LVC1G04GV		NC7SZ04M5X
74LVC1G04SE	SOT-353	Single Inverter	TC7SZ04FU	SN74LVC1G04DCK	74LVC1G04GW	NL17SZ04DF	NC7SZ04P5X
74LVC1G04FZ4	DFN1410	Single Inverter		SN74LVC1G04DRY	74LVC1G04GM		NC7SZ04L6X
74LVC1G06W5	SOT-25	Single Inverter open Drain	TC7SZ06F	SN74LVC1G06DBV	74LVC1G06GV		NC7SZ05M5X
74LVC1G06SE	SOT-353	Single Inverter open Drain	TC7SZ06FU	SN74LVC1G06DCK	74LVC1G06GW	NL17SZ06DF	NC7SZ05P5X
74LVC1G06FZ4	DFN1410	Single Inverter open Drain		SN74LVC1G06DRY	74LVC1G06GM		NC7SZ05L6X
74LVC1G07W5	SOT-25	Single Buffer open Drain	TC7SZ07F	SN74LVC1G07DBV	74LVC1G07GV		NC7SZ07M5X
74LVC1G07SE	SOT-353	Single Buffer open Drain	TC7SZ07FU	SN74LVC1G07DCK	74LVC1G07GW	NL17SZ07DF	NC7SZ07P5X
74LVC1G07FZ4	DFN1410	Single Buffer open Drain		SN74LVC1G07DRY	74LVC1G07GM		NC7SZ07L6X
74LVC1G08W5	SOT-25	AND Gate	TC7SZ08F	SN74LVC1G08DBV	74LVC1G08GV		NC7SZ08M5X
74LVC1G08SE	SOT-353	AND Gate	TC7SZ08FU	SN74LVC1G08DCK	74LVC1G08GW	NL17SZ08DF	NC7SZ08P5X
74LVC1G08FZ4	DFN1410	AND Gate		SN74LVC1G08DRY	74LVC1G08GM		NC7SZ08L6X
74LVC1G32W5	SOT-25	OR Gate	TC7SZ32F	SN74LVC1G32DBV	74LVC1G32GV		NC7SZ32M5X
74LVC1G32SE	SOT-353	OR Gate	TC7SZ32FU	SN74LVC1G32DCK	74LVC1G32GW	NL17SZ32DF	NC7SZ32P5X
74LVC1G32FZ4	DFN1410	OR Gate		SN74LVC1G32DRY	74LVC1G32GM		NC7SZ32L6X
74LVC1G86W5	SOT-25	XOR Gate	TC7SZ86F	SN74LVC1G86DBV	74LVC1G86GV		NC7SZ86M5X
74LVC1G86SE	SOT-353	XOR Gate	TC7SZ86FU	SN74LVC1G86DCK	74LVC1G86GW	NL17SZ86DF	NC7SZ86P5X
74LVC1G86FZ4	DFN1410	XOR Gate		SN74LVC1G86DRY	74LVC1G86GM		NC7SZ86L6X
74LVC1G125W5	SOT-25	3 State Buffer OE LOW	TC7SZ125F	SN74LVC1G125DBV	74LVC1G125GV	NL17SZ125DT	NC7SZ125M5X
74LVC1G125SE	SOT-353	3 State Buffer OE LOW	TC7SZ125FU	SN74LVC1G125DCK	74LVC1G125GW	NL17SZ125DF	NC7SZ125P5X
74LVC1G125FZ4	DFN1410	3 State Buffer OE LOW		SN74LVC1G125DRY	74LVC1G125GM		NC7SZ125L6X
74LVC1G126W5	SOT-25	3 State Buffer OE HIGH	TC7SZ126F	SN74LVC1G126DBV	74LVC1G126GV		NC7SZ126M5X
74LVC1G126SE	SOT-353	3 State Buffer OE HIGH	TC7SZ126FU	SN74LVC1G126DCK	74LVC1G126GW	NL17SZ126DF	NC7SZ126P5X
74LVC1G126FZ4	DFN1410	3 State Buffer OE HIGH		SN74LVC1G126DRY	74LVC1G126GM		NC7SZ126L6X