



New Product Announcement

LVC LOGIC

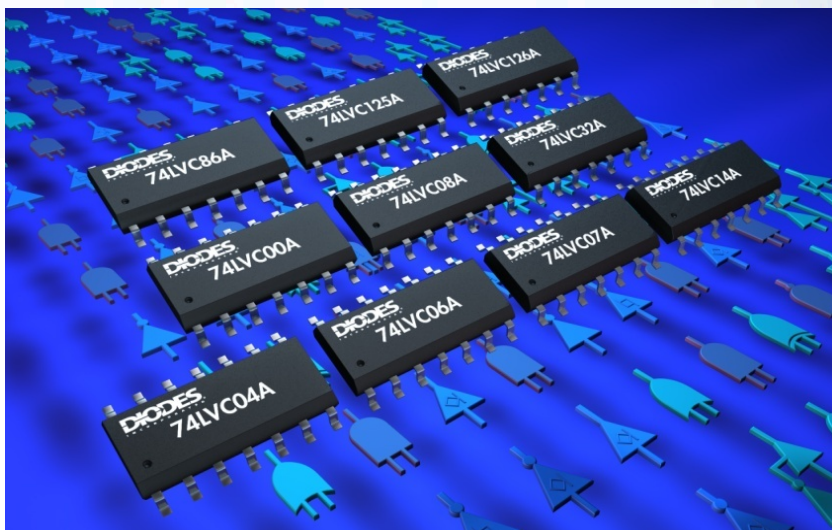
Low Voltage CMOS (LVC) Logic Family available in both TSSOP-14 & SO-14 Packages

The 74LVCxx is the popular “Low Voltage CMOS” logic family that is widely used in computer, communication and consumer electronics applications.

LVC is optimized for operation at 3.3V but operates over a supply voltage range of 1.65 to 5.5V

The inputs are tolerant to 5.5V even when V_{cc} is 3V allowing the parts to be used in mixed voltage applications.

Unique to Diodes is LVC with Ioff circuits. When the device is powered down with $V_{cc}=0$ there is no loading on the output pins.



The Diodes Advantage

▪ **Direct Replacement**

The LVCxx series offers a direct replacement for the industry standard LVC providing better value and improved availability

▪ **Wide Supply Voltage Range**

The recommended operating voltage range is V_{cc} from 1.65 to 5.5V. This allows a wide range of applications including 5V legacy systems.

▪ **Ioff Circuit Included**

Diodes offers the designer the flexibility of power down isolation for sections of a system. Ioff circuits are not offered by all suppliers for all LVC products

Circuit features

- $V_{cc} = 1.65$ to 5.5V
- Power down isolation
- 5.5V tolerant inputs
- <10uA Static I_{cc} at 25C
- 24 mA drive current at 3.6V
- Suitable for voltage translation



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74LVCxx Logic Products / Cross Reference

Diodes Device	Package	Description	Toshiba	TI	NXP	ON	Fairchild
74LVC00AS14-13	SO-14	Quadruple 2-input NAND Gate	TC74LCX00FN	SN74LVC00ADR	74LVC00AD,118	MC74LCX00DR2	74LCX00M
74LVC00AT14-13	TSSOP-14	Quadruple 2-input NAND Gate	TC74LCX00FT	SN74LVC00APWR	74LVC00APW,118	MC74LCX00DTR2	74LCX00MTC
74LVC04AS14-13	SO-14	Hex Inverters	TC74LCX04FN	SN74LVC04ADR	74LVC04AD,118	MC74LCX04DR2	74LCX04M
74LVC04AT14-13	TSSOP-14	Hex Inverters	TC74LCX04FT	SN74LVC04APWR	74LVC04APW,118	MC74LCX04DTR2	74LCX04MTC
74LVC06AS14-13	SO-14	Hex Inverters with open drains	TC74LCX05FN	SN74LVC06ADR	74LVC06AD,118	MC74LCX06DR2	74LCX06M
74LVC06AT14-13	TSSOP-14	Hex Inverters with open drains	TC74LCX05FT	SN74LVC06APWR	74LVC06APW,118	MC74LCX06DTR2	74LCX06MTC
74LVC07AS14-13	SO-14	Hex Buffers with open drains	TC74LCX07FN	SN74LVC07ADR	74LVC07AD,118	MC74LCX07DR2	74LCX07M
74LVC07AT14-13	TSSOP-14	Hex Buffers with open drains	TC74LCX07FT	SN74LVC07APWR	74LVC07APW,118	MC74LCX07DTR2	74LCX07MTC
74LVC08AS14-13	SO-14	Quadruple 2-input AND Gate	TC74LCX08FN	SN74LVC08ADR	74LVC08AD,118	MC74LCX08DR2	74LCX08M
74LVC08AT14-13	TSSOP-14	Quadruple 2-input AND Gate	TC74LCX08FT	SN74LVC08APWR	74LVC08APW,118	MC74LCX08DTR2	74LCX08MTC
74LVC125AS14-13	SO-14	Quadruple 3 State Buffer OE LOW	TC74LCX125FN	SN74LVC125ADR	74LVC125AD,118	MC74LCX125DR2	74LCX125M
74LVC125AT14-13	TSSOP-14	Quadruple 3 State Buffer OE LOW	TC74LCX125FT	SN74LVC125APWR	74LVC125APW,118	MC74LCX125DTR2	74LCX125MTC
74LVC126AS14-13	SO-14	Quadruple 3 State Buffer OE HIGH	TC74LCX126FN	SN74LVC126ADR	74LVC126AD,118	MC74LCX126DR2	74LCX126M
74LVC126AT14-13	TSSOP-14	Quadruple 3 State Buffer OE HIGH	TC74LCX126FT	SN74LVC126APWR	74LVC126APW,118	MC74LCX126DTR2	74LCX126MTC
74LVC14AS14-13	SO-14	Hex Inverters with Schmidt Trigger Inputs	TC74LCX14FN	SN74LVC14ADR	74LVC14AD,118	MC74LCX14DR2	74LCX14M
74LVC14AT14-13	TSSOP-14	Hex Inverters with Schmidt Trigger Inputs	TC74LCX14FT	SN74LVC14APWR	74LVC14APW,118	MC74LCX14DTR2	74LCX14MTC
74LVC32AS14-13	SO-14	Quadruple 2-input OR Gate	TC74LCX32FN	SN74LVC32ADR	74LVC32AD,118	MC74LCX32DR2	74LCX32M
74LVC32AT14-13	TSSOP-14	Quadruple 2-input OR Gate	TC74LCX32FT	SN74LVC32APWR	74LVC32APW,118	MC74LCX32DTR2	74LCX32MTC
74LVC86AS14-13	SO-14	Quadruple 2-input XOR Gate	TC74LCX86FN	SN74LVC86ADR	74LVC86AD,118	MC74LCX86DR2	74LCX86M
74LVC86AT14-13	TSSOP-14	Quadruple 2-input XOR Gate	TC74LCX86FT	SN74LVC86APWR	74LVC86APW,118	MC74LCX86DTR2	74LCX086MTC

To find out more information: Product page <http://www.diodes.com/logic>

Ordering information

Device	Packaging	Package marking info	Reel size	Tape width	Quantity
74LVCxxAS14-13	SO -14	74LVCxxA YY WW X	13"	12mm	2500
74LVCxxAT14-13	TSSOP -14	74LVCxxA YY WW X	13"	12mm	2500

- Notes: 1. No purposely added lead. Fully EU Directive 2002/95/EC (RoHS) & 2011/65/EU (RoHS 2) compliant.
 2. See <http://www.diodes.com> 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..
 4. Codes for date coding on part marks
 x x function number YY Year 0-9 WW week 1-52 52 represents 52 and 53 week X Internal Code