74LVC139

Dual 2-to-4 line decoder/demultiplexer

Rev. 6 — 24 September 2021

Product data sheet

1. General description

The 74LVC139 decodes two binary weighted address inputs (nA0, nA1) to four mutually exclusive outputs (n \overline{Y} 0 to n \overline{Y} 3). Each decoder features an enable input (n \overline{E}). When n \overline{E} is HIGH all outputs are forced HIGH. The enable input can be used as the data input for a 1-to-4 demultiplexer application. Inputs can be driven from either 3.3 V or 5 V devices. This feature allows the use of these devices as translators in mixed 3.3 V and 5 V environments.

Schmitt-trigger action at all inputs makes the circuit tolerant of slower input rise and fall times.

2. Features and benefits

- Wide supply voltage range from 1.2 V to 3.6 V
- Overvoltage tolerant inputs to 5.5 V
- · CMOS low power dissipation
- · Direct interface with TTL levels
- Demultiplexing capability
- Two independent 2-to-4 decoders
- Multifunction capability
- · Mutually exclusive outputs
- Output drive capability 50 Ω transmission lines at 125 °C
- Complies with JEDEC standard:
- JESD8-7A (1.65 V to 1.95 V)
 - JESD8-5A (2.3 V to 2.7 V)
 - JESD8-C/JESD36 (2.7 V to 3.6 V)
- ESD protection:
 - HBM JESD22-A114F exceeds 2000 V
 - MM JESD22-A115-B exceeds 200 V
 - CDM JESD22-C101E exceeds 1000 V
- · Multiple package options
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C

3. Ordering information

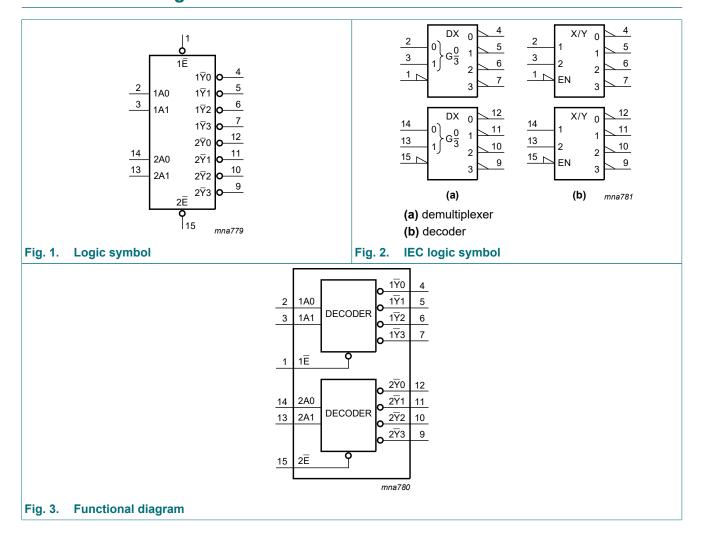
Table 1. Ordering information

Type number	Package	Package									
	Temperature range	Name	Description	Version							
74LVC139D	-40 °C to +125 °C	SO16	plastic small outline package; 16 leads; body width 3.9 mm	SOT109-1							
74LVC139PW	-40 °C to +125 °C	TSSOP16	plastic thin shrink small outline package; 16 leads; body width 4.4 mm	SOT403-1							
74LVC139BQ	-40 °C to +125 °C	DHVQFN16	plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 16 terminals; body 2.5 × 3.5 × 0.85 mm	SOT763-1							



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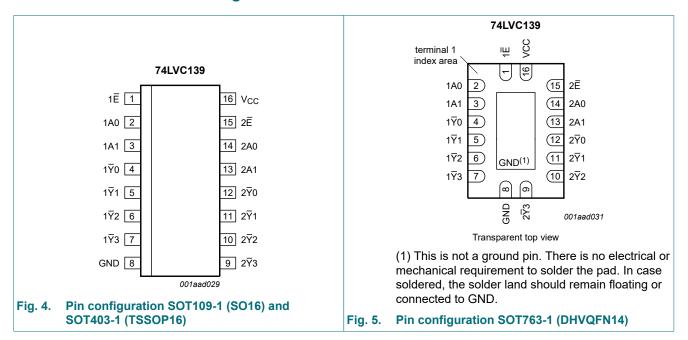
4. Functional diagram



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5. Pinning information

5.1. Pinning



5.2. Pin description

Table 2. Pin description

Name	Pin	Description
1Ē	1	enable input (active LOW)
2Ē	15	enable input (active LOW)
1A0, 1A1	2, 3	address input
2A0, 2A1	14, 13	address input
1\overline{7}0, 1\overline{7}1, 1\overline{7}2, 1\overline{7}3	4, 5, 6, 7	output
2 \overline{Y} 0, 2 \overline{Y} 1, 2 \overline{Y} 2, 2 \overline{Y} 3	12, 11, 10, 9	output
GND	8	ground (0 V)
V _{CC}	16	positive supply voltage

6. Functional description

Table 3. Function table

 $H = HIGH \ voltage \ level; \ L = LOW \ voltage \ level; \ X = don't \ care$

			Output					
nĒ	nA0	nA1	n Y 0	n ₹1	n Y 2	n Y 3		
Н	Х	X	Н	Н	Н	Н		
L	L	L	L	Н	Н	Н		
L	Н	L	Н	L	Н	Н		
L	L	Н	Н	Н	L	Н		
L	Н	Н	Н	Н	Н	L		

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7. Limiting values

Table 4. 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	+6.5	V
I _{IK}	input clamping current	V _I < 0	-50	-	mA
VI	input voltage	[1]	-0.5	+6.5	V
I _{OK}	output clamping current	$V_O > V_{CC}$ or $V_O < 0 V$	-	±50	mA
Vo	output voltage	[2]	-0.5	V _{CC} + 0.5	V
I _O	output current	$V_O = 0 \text{ V to } V_{CC}$	-	±50	mA
I _{CC}	supply current		-	100	mA
I_{GND}	ground current		-100	-	mA
T _{stg}	storage temperature		-65	+150	°C
P _{tot}	total power dissipation	$T_{amb} = -40 ^{\circ}\text{C to } +125 ^{\circ}\text{C}$ [3]	-	500	mW

^[1] The minimum input voltage ratings may be exceeded if the input current ratings are observed.

8. Recommended operating conditions

Table 5. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V _{CC}	supply voltage		1.65	-	3.6	V
		functional	1.2	-	-	V
VI	input voltage		0	-	5.5	V
Vo	output voltage		0	-	V _{CC}	V
T _{amb}	ambient temperature	in free air	-40		+125	°C
Δt/ΔV	input transition rise and fall rate	V _{CC} = 1.65 V to 2.7 V	0	-	20	ns/V
		V _{CC} = 2.7 V to 3.6 V	0	-	10	ns/V

^[2] The output voltage ratings may be exceeded if the output current ratings are observed.

^[3] For SOT109-1 (SO16) package: P_{tot} derates linearly with 12.4 mW/K above 110 °C. For SOT403-1 (TSSOP16) package: P_{tot} derates linearly with 8.5 mW/K above 91 °C. For SOT763-1 (DHVQFN16) package: P_{tot} derates linearly with 11.2 mW/K above 106 °C.

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9. Static characteristics

Table 6. Static characteristics

At recommended operating conditions. 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	
V _{IH}	HIGH-level	V _{CC} = 1.2 V	1.08	-	-	1.08	-	V
	input voltage	V _{CC} = 1.65 V to 1.95 V	0.65 × V _{CC}	-	-	0.65 × V _{CC}	-	V
		V _{CC} = 2.3 V to 2.7 V	1.7	-	-	1.7	-	V
		V _{CC} = 2.7 V to 3.6 V	2.0	-	-	2.0	-	V
V _{IL}	LOW-level	V _{CC} = 1.2 V	-	-	0.12	-	0.12	V
	input voltage	V _{CC} = 1.65 V to 1.95 V	-	-	0.35 × V _{CC}	-	0.35 × V _{CC}	V
		V _{CC} = 2.3 V to 2.7 V	-	-	0.7	-	0.7	V
		V _{CC} = 2.7 V to 3.6 V	-	-	0.8	-	0.8	V
V _{OH}	HIGH-level	$V_I = V_{IH}$ or V_{IL}						
	output voltage	I _O = -100 μA; V _{CC} = 1.65 V to 3.6 V	V _{CC} - 0.2	-	-	V _{CC} - 0.3	-	V
		I _O = -4 mA; V _{CC} = 1.65 V	1.2	-	-	1.05	-	V
		$I_O = -8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	1.8	-	-	1.65	-	V
		$I_O = -12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	2.2	-	-	2.05	-	V
		I _O = -18 mA; V _{CC} = 3.0 V	2.4	-	-	2.25	-	٧
		I _O = -24 mA; V _{CC} = 3.0 V	2.2	-	-	2.0	-	V
V _{OL}	LOW-level	V _I = V _{IH} or V _{IL}						
	output voltage	I _O = 100 μA; V _{CC} = 1.65 V to 3.6 V	-	-	0.2	-	0.3	V
		I _O = 4 mA; V _{CC} = 1.65 V	-	-	0.45	-	0.65	V
		$I_O = 8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.6	-	0.8	V
		I _O = 12 mA; V _{CC} = 2.7 V	-	-	0.4	-	0.6	V
		I _O = 24 mA; V _{CC} = 3.0 V	-	-	0.55	-	0.8	V
l _l	input leakage current	$V_{CC} = 3.6 \text{ V}; V_I = 5.5 \text{ V or GND}$	-	±0.1	±5	-	±20	μA
I _{CC}	supply current	$V_{CC} = 3.6 \text{ V}; V_{I} = V_{CC} \text{ or GND}; I_{O} = 0 \text{ A}$	-	0.1	10	-	40	μA
ΔI _{CC}	additional supply current	per input pin; $V_{CC} = 2.7 \text{ V to } 3.6 \text{ V};$ $V_{I} = V_{CC} - 0.6 \text{ V};$ $I_{O} = 0 \text{ A}$	-	5	500	-	5000	μΑ
C _I	input capacitance	V_{CC} = 0 V to 3.6 V; V_{I} = GND to V_{CC}	-	5.0	-	-	-	pF

^[1] All typical values are measured at V_{CC} = 3.3 V (unless stated otherwise) and T_{amb} = 25 °C.

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10. Dynamic characteristics

Table 7. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V). For test circuit see Fig. 8.

Symbol	Parameter	Conditions		-40	°C to +8	5 °C	-40 °C to	+125 °C	Unit
				Min	Typ [1]	Max	Min	Max	1
t _{pd}	propagation delay	nAn to \overline{Y} n; see Fig. 6	[2]						
		V _{CC} = 1.2 V		-	14	-	-	-	ns
		V _{CC} = 1.65 V to 1.95 V		0.5	4.7	10.4	0.5	11.3	ns
		V _{CC} = 2.3 V to 2.7 V		1.0	2.8	5.9	1.0	6.5	ns
		V _{CC} = 2.7 V		1.0	3.0	6.3	1.0	8.0	ns
		V _{CC} = 3.0 V to 3.6 V		1.0	2.5	5.3	1.0	7.0	ns
		nĒ to Ÿn; see <u>Fig. 7</u>	[2]						
		V _{CC} = 1.2 V		-	14	-	-	-	ns
		V _{CC} = 1.65 V to 1.95 V		1.5	4.5	9.8	1.5	10.7	ns
		V _{CC} = 2.3 V to 2.7 V		2.1	2.7	5.6	2.1	6.1	ns
		V _{CC} = 2.7 V		1.0	2.8	5.4	1.0	7.0	ns
		V _{CC} = 3.0 V to 3.6 V		1.0	2.4	5.0	1.0	6.5	ns
t _{sk(o)}	output skew time	V _{CC} = 3.0 V to 3.6 V	[3]	-	-	1.0	-	1.5	ns
C _{PD}	power dissipation	$V_I = GND$ to V_{CC}	[4]						
	capacitance	V _{CC} = 1.65 V to 1.95 V		-	5.6	-	-	-	pF
		V _{CC} = 2.3 V to 2.7 V		-	11.3	-	-	-	pF
		V _{CC} = 3.0 V to 3.6 V		-	16.4	-	-	-	pF

Typical values are measured at T_{amb} = 25 °C and V_{CC} = 1.2 V, 1.8 V, 2.5 V, 2.7 V, and 3.3 V respectively.

$$P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \sum (C_1 \times V_{CC}^2 \times f_o)$$
 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 V

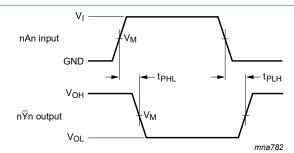
N = number of inputs switching,

 $\sum (C_L \times V_{CC}^2 \times f_0) = \text{sum of outputs.}$

Typical values are measured at $T_{amb} = 20^{\circ}$ C and $V_{CC} = 1.2^{\circ}$, 1.0 V, 2.0 V, 2.0 V and 3.0 V respectively. t_{pd} is the same as t_{PLH} and t_{PHL} . Skew between any two outputs of the same package switching in the same direction. This parameter is guaranteed by design. C_{PD} is used to determine the dynamic power dissipation (P_D in μ W). $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \sum (C_L \times V_{CC}^2 \times f_o)$ where:

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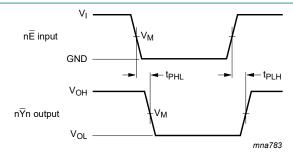
10.1. Waveforms and test circuit



Measurement points are given in Table 8.

 V_{OL} and V_{OH} are the typical output voltage levels that occur with the output load.

Fig. 6. Input (nAn) to output $(n\overline{Y}n)$ propagation delays



Measurement points are given in <u>Table 8</u>.

 $\ensuremath{V_{OL}}$ and $\ensuremath{V_{OH}}$ are the typical output voltage levels that occur with the output load.

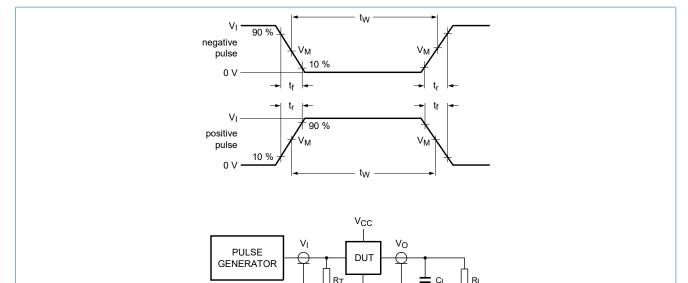
Fig. 7. Enable input $(n\overline{E})$ to output $(n\overline{Y}n)$ propagation delays

Table 8. Measurement points

Supply voltage	Input	Input				
V _{CC}	V _I		V _M			
1.2 V	V _{CC}	0.5 × V _{CC}	0.5 × V _{CC}			
1.65 V to 1.95 V	V _{CC}	0.5 × V _{CC}	0.5 × V _{CC}			
2.3 V to 2.7 V	V _{CC}	0.5 × V _{CC}	0.5 × V _{CC}			
2.7 V	2.7 V	1.5 V	1.5 V			
3.0 V to 3.6 V	2.7 V	1.5 V	1.5 V			

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Test data is given in Table 9.

Definitions for test circuit:

R_L = Load resistance.

 C_L = Load capacitance including jig and probe capacitance.

 R_T = Termination resistance should be equal to output impedance Z_0 of the pulse generator.

Fig. 8. Test circuit for measuring switching times

Table 9. Test data

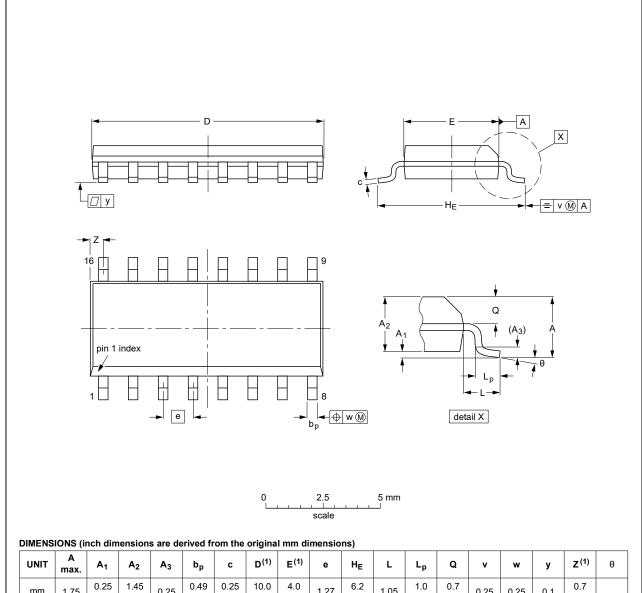
Supply voltage	Input		Load	Load			
	VI	t _r , t _f	C _L	R _L			
1.2 V	V _{CC}	≤ 2 ns	30 pF	1 kΩ			
1.65 V to 1.95 V	V _{CC}	≤ 2 ns	30 pF	1 kΩ			
2.3 V to 2.7 V	V _{CC}	≤ 2 ns	30 pF	500 Ω			
2.7 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω			
3.0 V to 3.6 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω			

Dual 2-to-4 line decoder/demultiplexer

11. Package outline

SO16: plastic small outline package; 16 leads; body width 3.9 mm

SOT109-1



UNIT	A max.	A ₁	A ₂	A ₃	bp	С	D ⁽¹⁾	E ⁽¹⁾	е	HE	L	Lp	Q	v	w	у	Z ⁽¹⁾	θ
mm	1.75	0.25 0.10	1.45 1.25	0.25	0.49 0.36	0.25 0.19	10.0 9.8	4.0 3.8	1.27	6.2 5.8	1.05	1.0 0.4	0.7 0.6	0.25	0.25	0.1	0.7 0.3	8°
inches	0.069	0.010 0.004	0.057 0.049	0.01		0.0100 0.0075	0.39 0.38	0.16 0.15	0.05	0.244 0.228	0.041	0.039 0.016	0.028 0.020	0.01	0.01	0.004	0.028 0.012	0°

1. Plastic or metal protrusions of 0.15 mm (0.006 inch) maximum per side are not included.

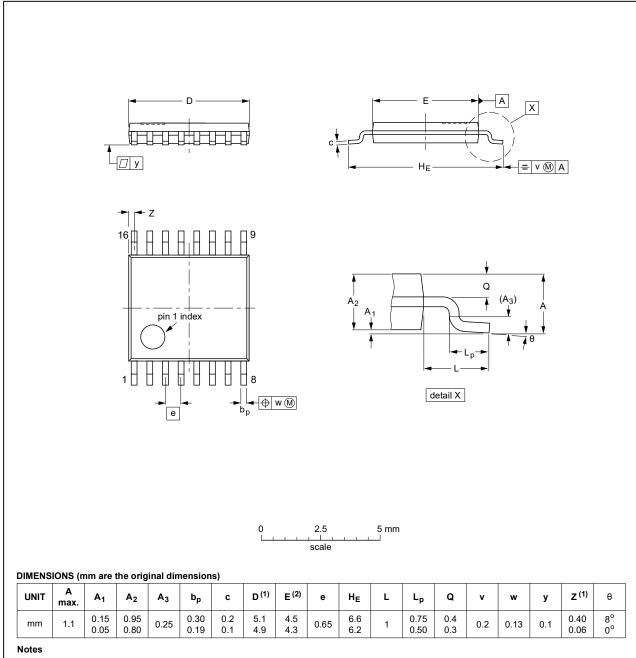
OUTLINE VERSION		REFER	EUROPEAN	ISSUE DATE		
	IEC	JEDEC	JEITA		PROJECTION	1330E DATE
SOT109-1	076E07	MS-012				99-12-27 03-02-19

Fig. 9. Package outline SOT109-1 (SO16)

Dual 2-to-4 line decoder/demultiplexer

TSSOP16: plastic thin shrink small outline package; 16 leads; body width 4.4 mm

SOT403-1



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

OUTLINE		REFER	EUROPEAN	ISSUE DATE		
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE
SOT403-1		MO-153				99-12-27 03-02-18

Fig. 10. Package outline SOT403-1 (TSSOP16)

Dual 2-to-4 line decoder/demultiplexer

DHVQFN16: plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 16 terminals; body 2.5 x 3.5 x 0.85 mm SOT763-1

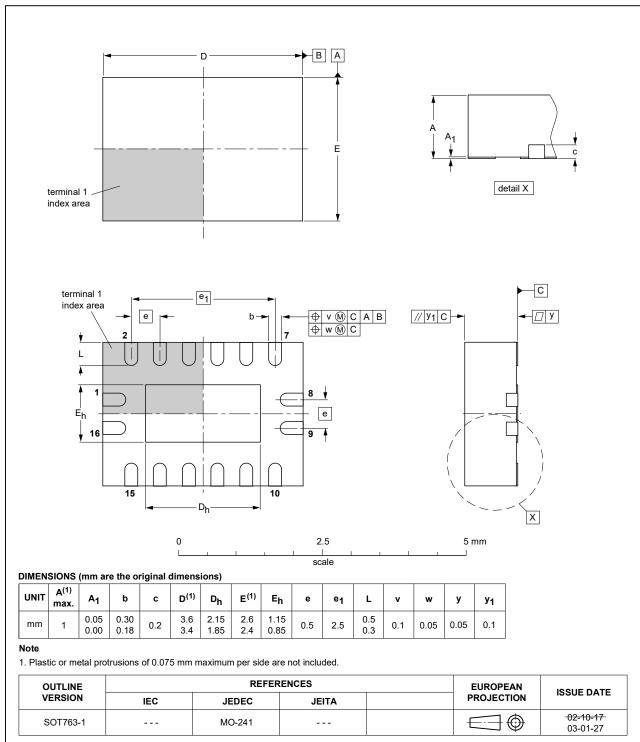


Fig. 11. Package outline SOT763-1 (DHVQFN16)

Dual 2-to-4 line decoder/demultiplexer

12. Abbreviations

Table 10. Abbreviations

Table 1417 tobleviations			
Acronym	Description		
CDM	Charged Device Model		
CMOS	Complementary Metal-Oxide Semiconductor		
DUT	Device Under Test		
ESD	ElectroStatic Discharge		
НВМ	Human Body Model		
MM	Machine Model		
TTL	Transistor-Transistor Logic		

13. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74LVC139 v.6	20210924	Product data sheet	-	74LVC139 v.5	
Modifications:	guidelines of Legal texts Section 1 a Type numb	of this data sheet has been of Nexperia. have been adapted to the and Section 2 updated. er 74LVC139DB (SOT338-Derating values for Ptot tota	new company nar	ne where appropriate. /ed.	
74LVC139 v.5	20111019	Product data sheet	-	74LVC139 v.4	
Modifications:	guidelines o Legal texts	 The format of this data sheet has been redesigned to comply with the new identity guidelines of NXP Semiconductors. Legal texts have been adapted to the new company name where appropriate. Table 4, Table 5, Table 6, Table 7 and Table 9: values added for lower voltage ranges. 			
74LVC139 v.4	040315	Product specification	-	74LVC139 v.3	
74LVC139 v.3	030519	Product specification	-	74LVC139 v.2	
74LVC139 v.2	980428	Product specification	-	74LVC139 v.1	
74LVC139 v.1	-	-	-	-	

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14. Legal information

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.

- 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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