74LV138
3-to-8 line decoder/demultiplexer; inverting
Rev. 5 — 5 February 2018   **Product data sheet**

1 General description

The 74LV138 is a low-voltage Si-gate CMOS device that is pin and function compatible with 74HC138 and 74HCT138.

The 74LV138 is a 3-to-8 line decoder/demultiplexer. It accepts three binary weighted address inputs (A0, A1 and A2) and, when enabled, provides eight mutually exclusive active LOW outputs ($\overline{Y}0$ to $\overline{Y}7$).

There are three enable inputs: two active LOW ($\overline{E}1$ and $\overline{E}2$) and one active HIGH (E3). Every output will be HIGH unless $\overline{E}1$ and $\overline{E}2$ are LOW and E3 is HIGH.

This multiple enable function allows easy parallel expansion of the device to a 1-of-32 (5 lines to 32 lines) decoder with just four 74LV138 devices and one inverter. The 74LV138 can be used as an eight output demultiplexer by using one of the active LOW enable inputs as the data input and the remaining enable inputs as strobes. Unused enable inputs must be permanently tied to their appropriate active HIGH or LOW state.
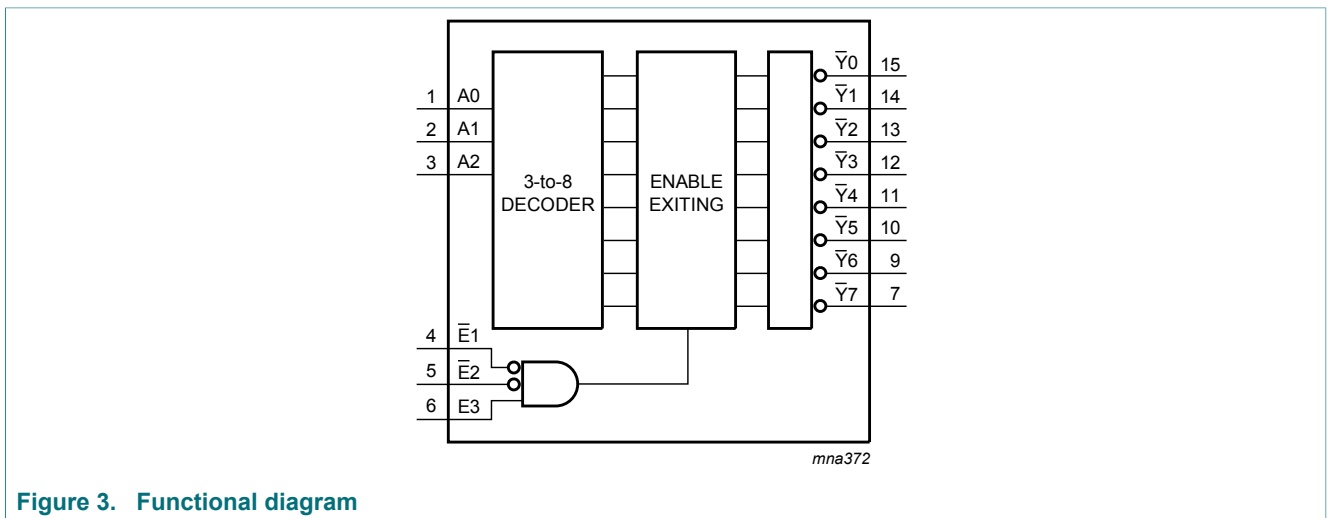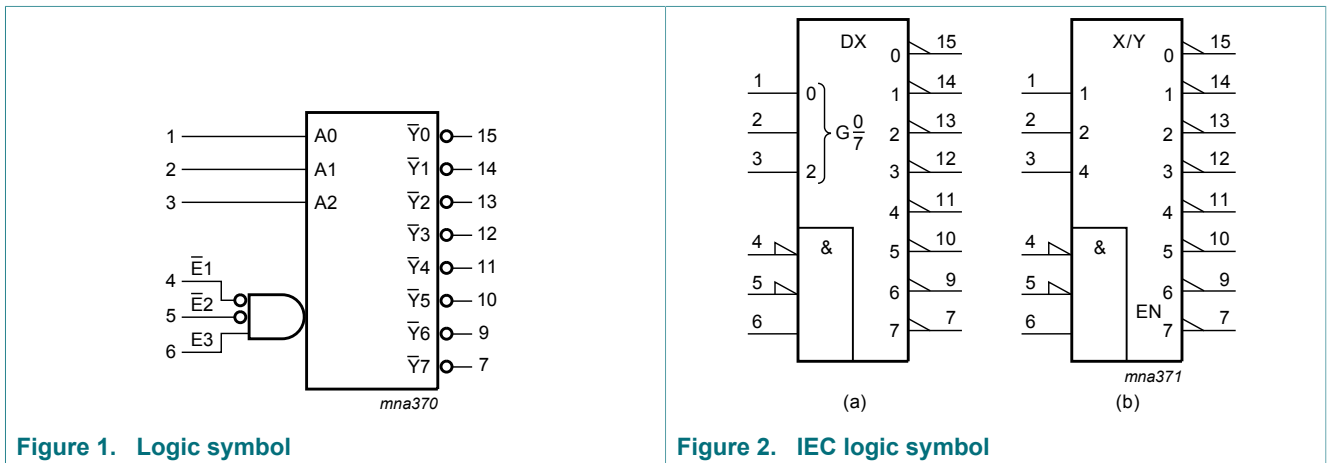
2 Features and benefits

- Wide operating voltage: 1.0 V to 5.5 V
- Optimized for low voltage applications: 1.0 V to 3.6 V
- Accepts TTL input levels between V_{CC} = 2.7 V and V_{CC} = 3.6 V
- Typical output ground bounce < 0.8 V at V_{CC} = 3.3 V and T_{amb} = 25 °C
- Typical HIGH-level output voltage (V_{OH}) undershoot: > 2 V at V_{CC} = 3.3 V and T_{amb} = 25 °C
- Demultiplexing capability
- Multiple input enable for easy expansion
- Ideal for memory chip select decoding
- Active LOW mutually exclusive outputs
- ESD protection:
  - HBM JESD22-A114E exceeds 2000 V
  - MM JESD22-A115-A exceeds 200 V
- Multiple package options
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C

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3   Ordering information

Table 1. Ordering information

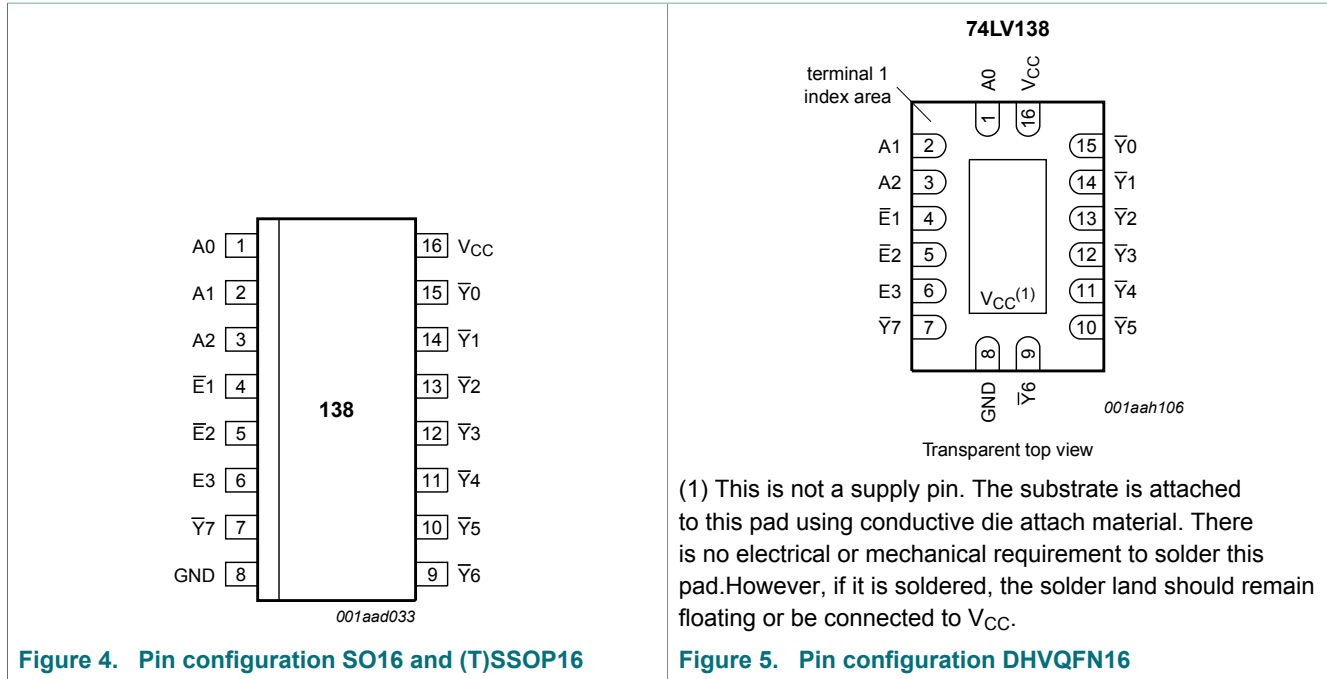| Type number	Package			Version
	Temperature range	**Name**	**Description**	
74LV138D	-40 °C to +125 °C	SO16	plastic small outline package; 16 leads; body width 3.9 mm	SOT109-1
74LV138DB	-40 °C to +125 °C	SSOP16	plastic shrink small outline package; 16 leads; body width 5.3 mm	SOT338-1
74LV138PW	-40 °C to +125 °C	TSSOP16	plastic thin shrink small outline package; 16 leads; body width 4.4 mm	SOT403-1
74LV138BQ	-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 x 3.5 x 0.85 mm	SOT763-1

4   Functional diagram

Figure 1.   Logic symbol

Figure 2.   IEC logic symbol

Figure 3.   Functional diagram

5 Pinning information

5.1 Pinning

Figure 4. Pin configuration SO16 and (T)SSOP16

(1) This is not a supply pin. The substrate is attached to this pad using conductive die attach material. There is no electrical or mechanical requirement to solder this pad.However, if it is soldered, the solder land should remain floating or be connected to V_{CC}.

Figure 5. Pin configuration DHVQFN16

5.2 Pin description

Table 2. Pin description

Symbol	Pin	Description
A0	1	address input
A1	2	address input
A2	3	address input
$\overline{E}1$	4	enable input (active LOW)
$\overline{E}2$	5	enable input (active LOW)
E3	6	enable input (active HIGH)
GND	8	ground (0 V)
$\overline{Y}0$ to $\overline{Y}7$	15, 14, 13, 12, 11, 10, 9, 7	output
V_{CC}	16	supply voltage

6 Functional description

Table 3. Function table

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

Input						Output							
E1	E2	E3	A0	A1	A2	Y0	Y1	Y2	Y3	Y4	Y5	Y6	Y7
H	X	X	X	X	X	H	H	H	H	H	H	H	H
X	H	X	X	X	X	H	H	H	H	H	H	H	H
X	X	L	X	X	X	H	H	H	H	H	H	H	H
L	L	H	L	L	L	L	H	H	H	H	H	H	H
L	L	H	H	L	L	H	L	H	H	H	H	H	H
L	L	H	L	H	L	H	H	L	H	H	H	H	H
L	L	H	H	H	L	H	H	H	L	H	H	H	H
L	L	H	L	L	H	H	H	H	H	L	H	H	H
L	L	H	H	L	H	H	H	H	H	H	L	H	H
L	L	H	L	H	H	H	H	H	H	H	H	L	H
L	L	H	H	H	H	H	H	H	H	H	H	H	L

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	+7.0	V
I_{IK}	input clamping current	V_I < -0.5 V or V_I > V_{CC} + 0.5 V	[1]	-	±20	mA
I_{OK}	output clamping current	V_O < -0.5 V or V_O > V_{CC} + 0.5 V	[1]	-	±50	mA
I_O	output current	V_O = -0.5 V to (V_{CC} + 0.5 V)		-	±25	mA
I_{CC}	supply current			-	50	mA
I_{GND}	ground current			-50	-	mA
T_{stg}	storage temperature			-65	+150	°C
P_{tot}	total power dissipation	T_{amb} = -40 °C to +125 °C				
		SO16 package	[2]	-	500	mW
		(T)SSOP16 package	[3]	-	500	mW
		DHVQFN16 package	[4]	-	500	mW

[1] The input and output voltage ratings may be exceeded if the input and output current ratings are observed.
[2] P_{tot} derates linearly with 8 mW/K above 70 °C.
[3] P_{tot} derates linearly with 5.5 mW/K above 60 °C.
[4] P_{tot} derates linearly with 4.5 mW/K above 60 °C.

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8 Recommended operating conditions

Table 5. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V_{CC}	supply voltage	[1]	1.0	3.3	5.5	V
V_I	input voltage		0	-	V_{CC}	V
V_O	output voltage		0	-	V_{CC}	V
T_{amb}	ambient temperature		-40	+25	+125	°C
$\Delta t/\Delta V$	input transition rise and fall rate	V_{CC} = 1.0 V to 2.0 V	-	-	500	ns/V
		V_{CC} = 2.0 V to 2.7 V	-	-	200	ns/V
		V_{CC} = 2.7 V to 3.6 V	-	-	100	ns/V
		V_{CC} = 3.6 V to 5.5 V	-	-	50	ns/V

[1] The static characteristics are guaranteed from V_{CC} = 1.2 V to V_{CC} = 5.5 V, but LV devices are guaranteed to function down to V_{CC} = 1.0 V (with input levels GND or V_{CC}).

9 Static characteristics

Table 6. Static characteristics

Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to +125 °C		Unit
			Min	Typ[1]	Max	Min	Max	
V_{IH}	HIGH-level input voltage	V_{CC} = 1.2 V	0.9	-	-	0.9	-	V
		V_{CC} = 2.0 V	1.4	-	-	1.4	-	V
		V_{CC} = 2.7 V to 3.6 V	2.0	-	-	2.0	-	V
		V_{CC} = 4.5 V to 5.5 V	$0.7V_{CC}$	-	-	$0.7V_{CC}$	-	V
V_{IL}	LOW-level input voltage	V_{CC} = 1.2 V	-	-	0.3	-	0.3	V
		V_{CC} = 2.0 V	-	-	0.6	-	0.6	V
		V_{CC} = 2.7 V to 3.6 V	-	-	0.8	-	0.8	V
		V_{CC} = 4.5 V to 5.5 V	-	-	$0.3V_{CC}$	-	$0.3V_{CC}$	V
V_{OH}	HIGH-level output voltage	$V_I = V_{IH}$ or V_{IL}						
		I_O = -100 µA; V_{CC} = 1.2 V	-	1.2	-	-	-	V
		I_O = -100 µA; V_{CC} = 2.0 V	1.8	2.0	-	1.8	-	V
		I_O = -100 µA; V_{CC} = 2.7 V	2.5	2.7	-	2.5	-	V
		I_O = -100 µA; V_{CC} = 3.0 V	2.8	3.0	-	2.8	-	V
		I_O = -100 µA; V_{CC} = 4.5 V	4.3	4.5	-	4.3	-	V
		I_O = -6 mA; V_{CC} = 3.0 V	2.4	2.82	-	2.2	-	V
		I_O = -12 mA; V_{CC} = 4.5 V	3.6	4.2	-	3.5	-	V

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Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to +125 °C		Unit
			Min	Typ[1]	Max	Min	Max	
V_{OL}	LOW-level output voltage	$V_I = V_{IH}$ or V_{IL}						
		$I_O = 100$ µA; $V_{CC} = 1.2$ V	-	0	-	-	-	V
		$I_O = 100$ µA; $V_{CC} = 2.0$ V	-	0	0.2	-	0.2	V
		$I_O = 100$ µA; $V_{CC} = 2.7$ V	-	0	0.2	-	0.2	V
		$I_O = 100$ µA; $V_{CC} = 3.0$ V	-	0	0.2	-	0.2	V
		$I_O = 100$ µA; $V_{CC} = 4.5$ V	-	0	0.2	-	0.2	V
		$I_O = 6$ mA; $V_{CC} = 3.0$ V	-	0.25	0.40	-	0.50	V
		$I_O = 12$ mA; $V_{CC} = 4.5$ V	-	0.35	0.55	-	0.65	V
I_I	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 5.5$ V	-	-	1.0	-	1.0	µA
I_{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5$ V	-	-	20.0	-	160	µA
ΔI_{CC}	additional supply current	per input; $V_I = V_{CC} - 0.6$ V; $V_{CC} = 2.7$ V to 3.6 V	-	-	500	-	850	µA
C_I	input capacitance		-	3.5	-	-	-	pF

[1] Typical values are measured at $T_{amb} = 25$ °C.

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10 Dynamic characteristics

Table 7. Dynamic characteristics

GND = 0 V; For test circuit see Figure 8.

Symbol	Parameter	Conditions		-40 °C to +85 °C			-40 °C to +125 °C		Unit
				Min	Typ[1]	Max	Min	Max	
t_{pd}	propagation delay	An to $\overline{Y}$n; see Figure 6	[2]						
		V_{CC} = 1.2 V		-	75	-	-	-	ns
		V_{CC} = 2.0 V		-	26	44	-	55	ns
		V_{CC} = 2.7 V		-	19	31	-	39	ns
		V_{CC} = 3.0 V to 3.6 V; C_L = 15 pF	[3]	-	12	-	-	-	ns
		V_{CC} = 3.0 V to 3.6 V	[3]	-	15	26	-	32	ns
		V_{CC} = 4.5 V to 5.5 V		-	-	17	-	22	ns
		E3, $\overline{E}$n to $\overline{Y}$n; see Figure 6 and Figure 7							
		V_{CC} = 1.2 V		-	75	-	-	-	ns
		V_{CC} = 2.0 V		-	26	43	-	53	ns
		V_{CC} = 2.7 V		-	19	30	-	38	ns
		V_{CC} = 3.0 V to 3.6 V; C_L = 15 pF	[3]	-	14	-	-	-	ns
		V_{CC} = 3.0 V to 3.6 V	[3]	-	15	25	-	31	ns
		V_{CC} = 4.5 V to 5.5 V		-	-	19	-	24	ns
C_{PD}	power dissipation capacitance	C_L = 50 pF; f_i = 1 MHz; V_I = GND to V_{CC}	[4]	-	45	-	-	-	pF

[1] All typical values are measured at T_{amb} = 25 °C.
[2] t_{pd} is the same as t_{PLH} and t_{PHL}.
[3] Typical values are measured at nominal supply voltage (V_{CC} = 3.3 V).
[4] 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 V
N = number of inputs switching
$\Sigma(C_L \times V_{CC}^2 \times f_o)$ = sum of the outputs.
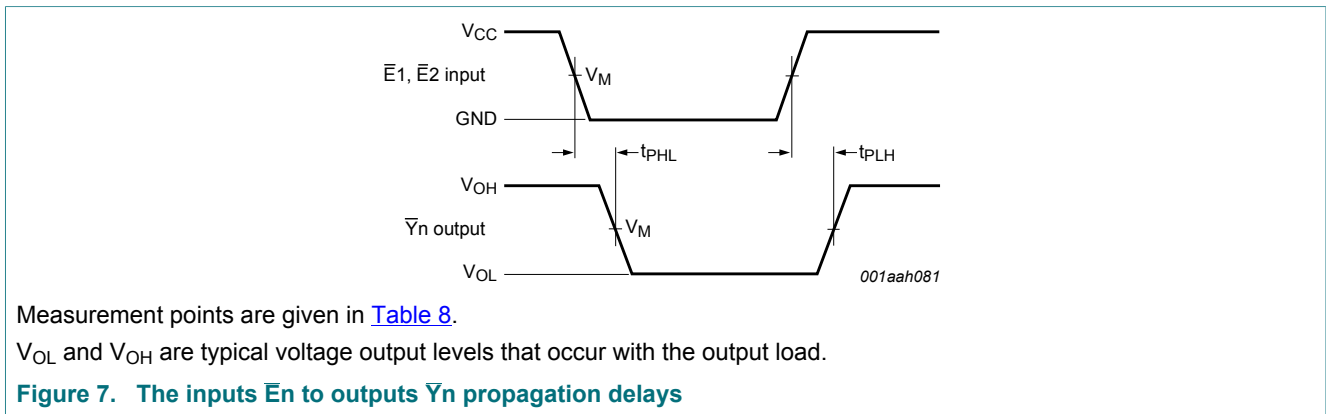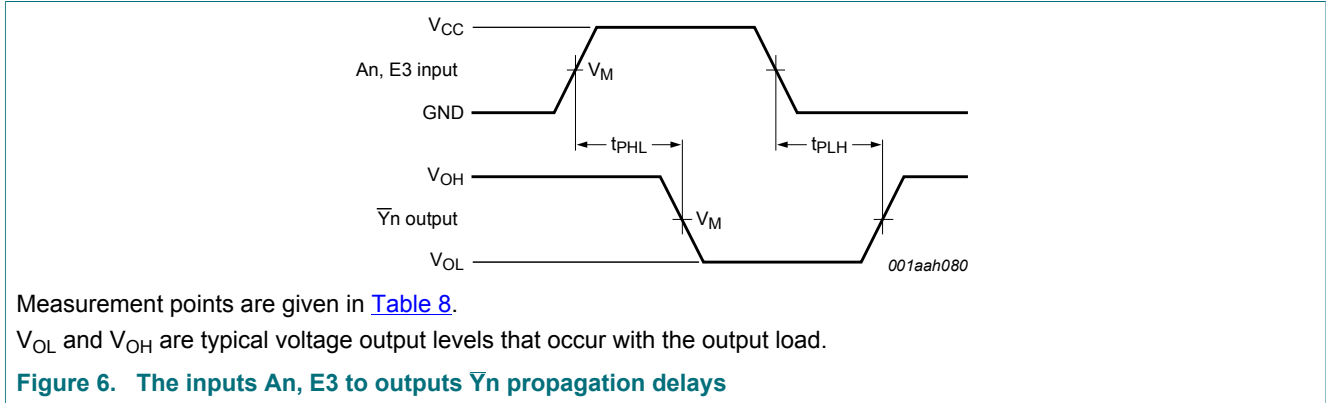
11 Waveforms and test circuit

Measurement points are given in Table 8.

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

Figure 6.   The inputs An, E3 to outputs Ȳn propagation delays

Measurement points are given in Table 8.

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

Figure 7.   The inputs Ēn to outputs Ȳn propagation delays

Table 8. Measurement points

Supply voltage	Input	Output
V_{CC}	V_M	V_M
< 2.7 V	$0.5V_{CC}$	$0.5V_{CC}$
2.7 V to 3.6 V	1.5 V	1.5 V
≥ 4.5 V	$0.5V_{CC}$	$0.5V_{CC}$

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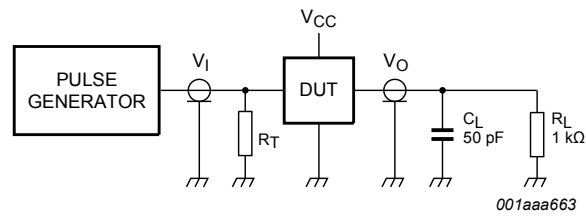
Test data is given in Table 9.

Definitions test circuit:

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

R_L = Load resistance.

C_L = Load capacitance including jig and probe capacitance.
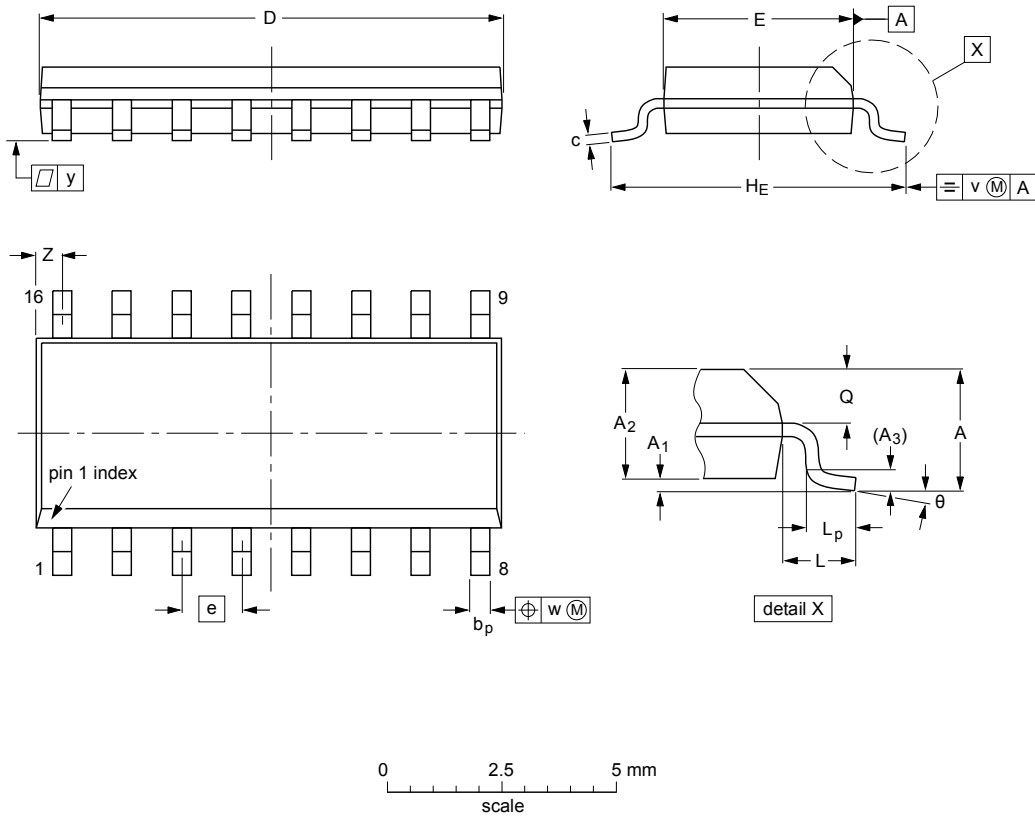
Figure 8.　Test circuit for measuring switching times

Table 9.　Test data

Supply voltage	Input	
V_{CC}	V_I	t_r, t_f
< 2.7 V	V_{CC}	≤ 2.5 ns
2.7 V to 3.6 V	2.7 V	≤ 2.5 ns
≥ 4.5 V	V_{CC}	≤ 2.5 ns

12 Package outline

SO16: plastic small outline package; 16 leads; body width 3.9 mm   **SOT109-1**

DIMENSIONS (inch dimensions are derived from the original mm dimensions)

UNIT	A max.	A₁	A₂	A₃	bₚ	c	D[1]	E[1]	e	H_E	L	L_p	Q	v	w	y	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° / 0°
inches	0.069	0.010 / 0.004	0.057 / 0.049	0.01	0.019 / 0.014	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	

Note

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

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

Figure 9. Package outline SOT109-1 (SO16)

SSOP16: plastic shrink small outline package; 16 leads; body width 5.3 mm   **SOT338-1**
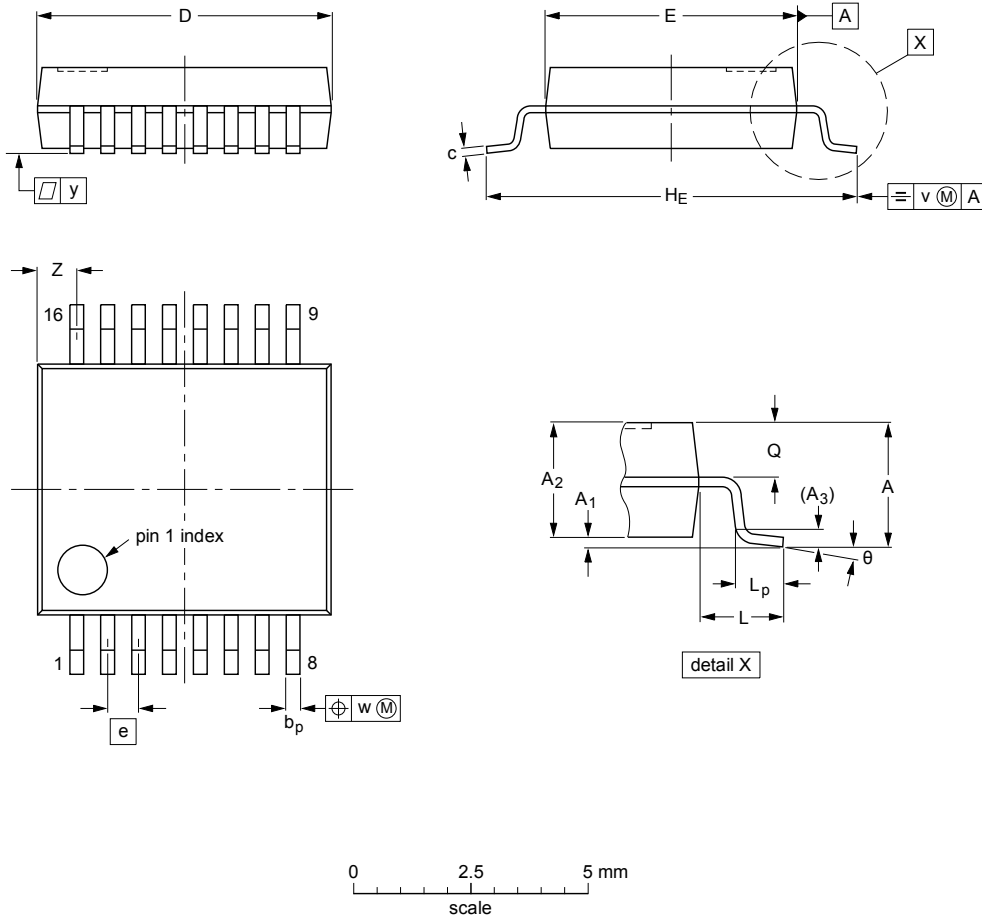
DIMENSIONS (mm are the original dimensions)

UNIT	A max.	A₁	A₂	A₃	bₚ	c	D⁽¹⁾	E⁽¹⁾	e	H_E	L	Lₚ	Q	v	w	y	Z⁽¹⁾	θ
mm	2	0.21 0.05	1.80 1.65	0.25	0.38 0.25	0.20 0.09	6.4 6.0	5.4 5.2	0.65	7.9 7.6	1.25	1.03 0.63	0.9 0.7	0.2	0.13	0.1	1.00 0.55	8° 0°

Note

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

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	JEITA			
SOT338-1		MO-150				99-12-27 03-02-19

Figure 10. Package outline SOT338-1 (SSOP16)

TSSOP16: plastic thin shrink small outline package; 16 leads; body width 4.4 mm **SOT403-1**
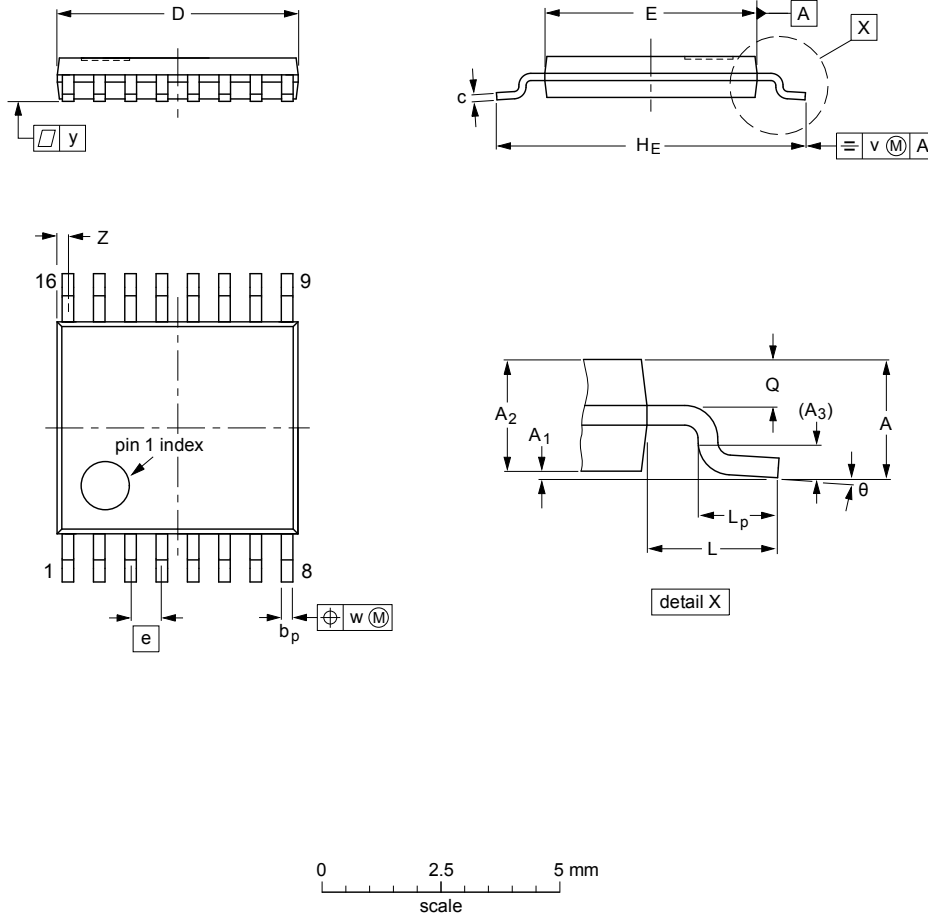
DIMENSIONS (mm are the original dimensions)

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	1.1	0.15 0.05	0.95 0.80	0.25	0.30 0.19	0.2 0.1	5.1 4.9	4.5 4.3	0.65	6.6 6.2	1	0.75 0.50	0.4 0.3	0.2	0.13	0.1	0.40 0.06	8° 0°

Notes

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

Figure 11.   Package outline SOT403-1 (TSSOP16)

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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

terminal 1 index area

detail X

terminal 1 index area

0   2.5   5 mm
scale

DIMENSIONS (mm are the original dimensions)

UNIT	A[1] max.	A₁	b	c	D[1]	Dₕ	E[1]	Eₕ	e	e₁	L	v	w	y	y₁
mm	1	0.05 0.00	0.30 0.18	0.2	3.6 3.4	2.15 1.85	2.6 2.4	1.15 0.85	0.5	2.5	0.5 0.3	0.1	0.05	0.05	0.1

Note

1. Plastic or metal protrusions of 0.075 mm maximum per side are not included.

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	JEITA			
SOT763-1	- - -	MO-241	- - -			~~02-10-17~~ 03-01-27
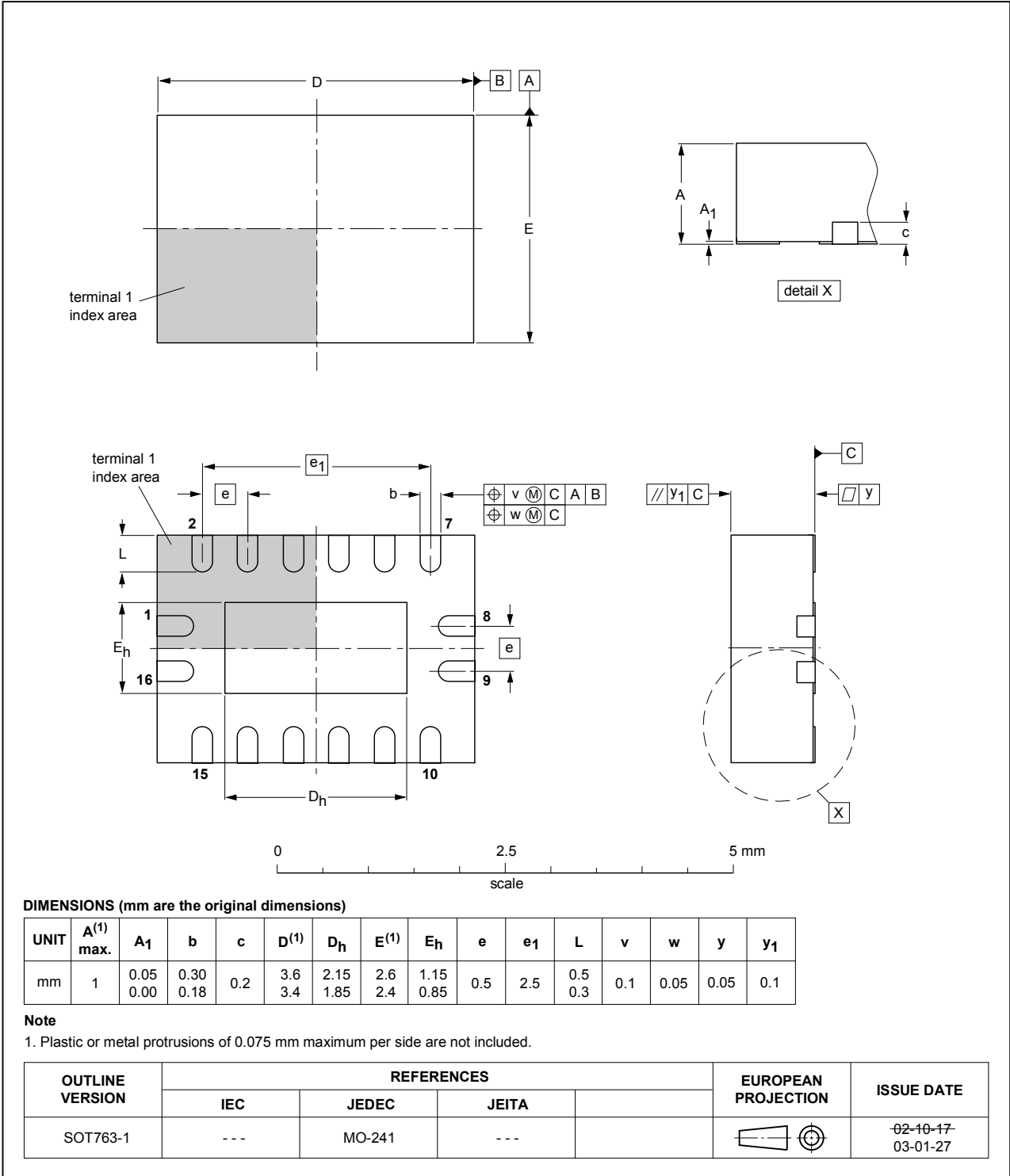
Figure 12.   Package outline SOT763-1 (DHVQFN16)

13 Abbreviations

Table 10. Abbreviations

Acronym	Description
CMOS	Complementary Metal Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
HBM	Human Body Model
MM	Machine Model
TTL	Transistor-Transistor Logic

14 Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74LV138 v.5	20180205	Product data sheet	-	74LV138 v.4
Modifications:	• The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia. • Legal texts have been adapted to the new company name where appropriate.			
74LV138 v.4	20160304	Product data sheet	-	74LV138 v.3
Modifications:	• Type number 74LV138N (SOT38-4) removed.			
74LV138 v.3	20071115	Product data sheet	-	74LV138 v.2
Modifications:	• 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. • Section 3: DHVQFN16 package added. • Section 7: derating values added for DHVQFN16 package. • Figure 12: outline drawing added for DHVQFN16 package.			
74LV138 v.2	19980428	Product specification	-	74LV138 v.1
74LV138 v.1	19970203	Product specification	-	-

15 Legal information

15.1 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.

[1] Please consult the most recently issued document before initiating or completing a design.
[2] The term 'short data sheet' is explained in section "Definitions".
[3] The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the Internet at URL http://www.nexperia.com.

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