74LVC138A-Q100

3-to-8 line decoder/demultiplexer; inverting

Rev. 3 — 28 August 2020

Product data sheet

1. General description

The 74LVC138A-Q100 decodes three binary weighted address inputs (A0, A1 and A2) to eight mutually exclusive outputs ($\overline{Y}0$ to $\overline{Y}7$). The 74LVC138A features three enable inputs ($\overline{E}1$, $\overline{E}2$ and $\overline{E}3$). Every output will be HIGH unless $\overline{E}1$ and $\overline{E}2$ are LOW and $\overline{E}3$ is HIGH. This multiple enable function allows easy parallel expansion of the 74LVC138A-Q100 to a 1-of-32 (5 to 32 lines) decoder with just four 74LVC138A-Q100 ICs and one inverter. The 74LVC138A-Q100 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. 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.

This product has been qualified to the Automotive Electronics Council (AEC) standard Q100 (Grade 1) and is suitable for use in automotive applications.

2. Features and benefits

- Automotive product qualification in accordance with AEC-Q100 (Grade 1)
 - Specified from -40 °C to +85 °C and from -40 °C to +125 °C
- Overvoltage tolerant inputs to 5.5 V
- Wide supply voltage range from 1.2 V to 3.6 V
- CMOS low power consumption
- Direct interface with TTL levels
- Demultiplexing capability
- Multiple input enable for easy expansion
- Ideal for memory chip select decoding
- 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:
 - MIL-STD-883, method 3015 exceeds 2000 V
 - HBM JESD22-A114F exceeds 2000 V
 - MM JESD22-A115-A exceeds 200 V (C = 200 pF, R = 0 Ω)
- · Multiple package options
- DHVQFN package with Side-Wettable Flanks enabling Automatic Optical Inspection (AOI) of solder joints

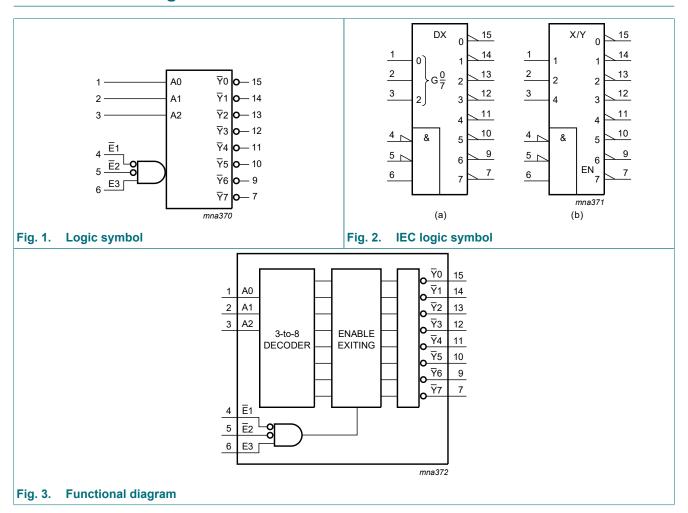


3. Ordering information

Table 1. Ordering information

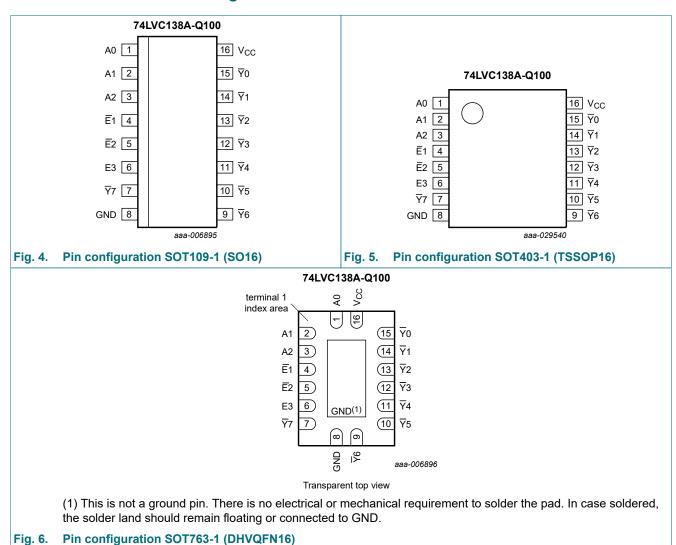
Type number	Package									
	Temperature range	Name	Description	Version						
74LVC138AD-Q100	-40 °C to +125 °C	SO16	plastic small outline package; 16 leads; body width 3.9 mm	SOT109-1						
74LVC138APW-Q100	-40 °C to +125 °C	TSSOP16	plastic thin shrink small outline package; 16 leads; body width 4.4 mm	SOT403-1						
74LVC138ABQ-Q100	-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						

4. Functional diagram



5. Pinning information

5.1. Pinning



5.2. Pin description

Table 2. Pin description

Symbol	Pin	Description
A0, A1, A2	1, 2, 3	address input
E1, E2	4, 5	enable input (active LOW)
E3	6	enable input (active HIGH)
GND	8	ground (0 V)
$\overline{Y}0, \overline{Y}1, \overline{Y}2, \overline{Y}3, \overline{Y}4, \overline{Y}5, \overline{Y}6, \overline{Y}7$	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							
Ē1	E2	E3	A0	A1	A2	Y 0	₹ 1	Y 2	∀ 3	∀ 4	Y 5	Y 6	Y 7
Н	Х	Х	Х	Х	Х	Н	Н	Н	Н	Н	Н	Н	Н
Χ	Н	Х	Х	Х	Х	Н	Н	Н	Н	Н	Н	Н	Н
X	Х	L	Х	Х	Х	Н	Н	Н	Н	Н	Н	Н	Н
L	L	Н	L	L	L	L	Н	Н	Н	Н	Н	Н	Н
			Н	L	L	Н	L	Н	Н	Н	Н	Н	Н
			L	Н	L	Н	Н	L	Н	Н	Н	Н	Н
			Н	Н	L	Н	Н	Н	L	Н	Н	Н	Н
			L	L	Н	Н	Н	Н	Н	L	Н	Н	Н
			Н	L	Н	Н	Н	Н	Н	Н	L	Н	Н
			L	Н	Н	Н	Н	Н	Н	Н	Н	L	Н
			Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	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	+6.5	V
I _{IK}	input clamping current	V _I < 0 V	-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	output HIGH or LOW state [2]	-0.5	V _{CC} + 0.5	V
Io	output current	V _O = 0 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	$T_{amb} = -40 ^{\circ}\text{C} \text{ to } +125 ^{\circ}\text{C}$ [3]	-	500	mW

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

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	output HIGH or LOW state	0	-	V _{CC}	V
T _{amb}	ambient temperature		-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

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 +85	°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	0.65V _{CC}	-	-	0.65V _{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	-	-	0.35V _{CC}	-	0.35V _{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 mA; V _{CC} = 2.3 V	1.8	-	-	1.65	-	V
		I _O = -12 mA; V _{CC} = 2.7 V	2.2	-	-	2.05	-	V
		I _O = -18 mA; V _{CC} = 3.0 V	2.4	-	-	2.25	-	V
		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	$I_O = 100 \mu A;$ $V_{CC} = 1.65 \text{ V to } 3.6 \text{ V}$	-	-	0.2	-	0.3	V
		I _O = 4 mA; V _{CC} = 1.65 V	-	-	0.45	-	0.65	V
		I _O = 8 mA; V _{CC} = 2.3 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	μΑ
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

Symbol	Parameter	Conditions	-4	0 °C to +85	°C	-40 °C to	Unit	
			Min	Typ [1]	Max	Min	Max	
ΔI _{CC}	additional supply current	per input pin; V _{CC} = 2.7 V to 3.6 V; V _I = V _{CC} - 0.6 V; I _O = 0 A	-	5	500	-	5000	μΑ
Cı	input capacitance	V_{CC} = 0 V to 3.6 V; V _I = GND to V_{CC}	-	4.0	-	-	-	pF

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

10. Dynamic characteristics

Table 7. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V). For test circuit see Fig. 9.

Symbol	Parameter	Conditions		-40	0 °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 Fig. 7	[2]						
		V _{CC} = 1.2 V		-	14	-	-	-	ns
		V _{CC} = 1.65 V to 1.95 V		0.5	5.2	11.5	0.5	12.7	ns
		V _{CC} = 2.3 V to 2.7 V		1.5	3.0	6.5	1.5	7.3	ns
		V _{CC} = 2.7 V		1.5	3.2	6.8	1.5	8.5	ns
		V _{CC} = 3.0 V to 3.6 V		1.0	2.7	5.8	1.0	7.5	ns
		E3 to \overline{Y} n; see $\underline{\text{Fig. 7}}$	[2]						
		V _{CC} = 1.2 V		-	14	-	-	-	ns
		V _{CC} = 1.65 V to 1.95 V		1.0	5.5	11.4	1.0	12.5	ns
		V _{CC} = 2.3 V to 2.7 V		1.5	3.2	6.5	1.5	7.1	ns
		V _{CC} = 2.7 V		1.5	3.3	6.8	1.5	8.5	ns
		V _{CC} = 3.0 V to 3.6 V		1.0	2.9	5.8	1.0	7.5	ns
		En to ∀n; see Fig. 8	[2]						
		V _{CC} = 1.2 V		-	15	-	-	-	ns
		V _{CC} = 1.65 V to 1.95 V		1.0	5.6	11.5	1.0	12.8	ns
		V _{CC} = 2.3 V to 2.7 V		1.8	3.3	6.5	1.8	7.3	ns
		V _{CC} = 2.7 V		1.5	3.4	6.4	1.5	8.0	ns
		V _{CC} = 3.0 V to 3.6 V		1.0	2.9	5.8	1.0	7.5	ns
t _{sk(o)}	output skew time		[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		-	9.9	-	-	-	pF
		V _{CC} = 2.3 V to 2.7 V		-	15.8	-	-	-	pF
		V _{CC} = 3.0 V to 3.6 V		-	21.1	-	-	-	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.

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

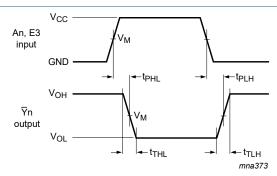
 $\sum (C_L \times V_{CC}^2 \times f_0) = \text{sum of outputs}$

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:

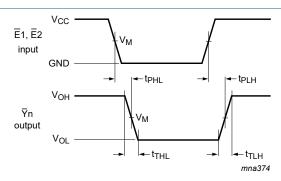
10.1. Waveforms and test circuit



Measurement points are given in Table 8

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

Fig. 7. The inputs An, E3 to outputs $\overline{Y}n$ propagation delays



Measurement points are given in Table 8

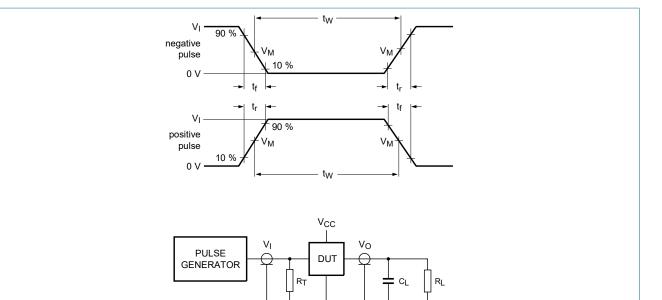
 $\ensuremath{V_{\text{OL}}}$ and $\ensuremath{V_{\text{OH}}}$ are typical output voltage levels that occur with the output load.

Fig. 8. The inputs En to outputs Yn propagation delays

Table 8. Measurement points

Supply voltage	Input	Output		
V _{CC}	V _I	V _M	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 <u>Table 9</u>. 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_{o} of the pulse generator.

Fig. 9. Test circuit for measuring switching times

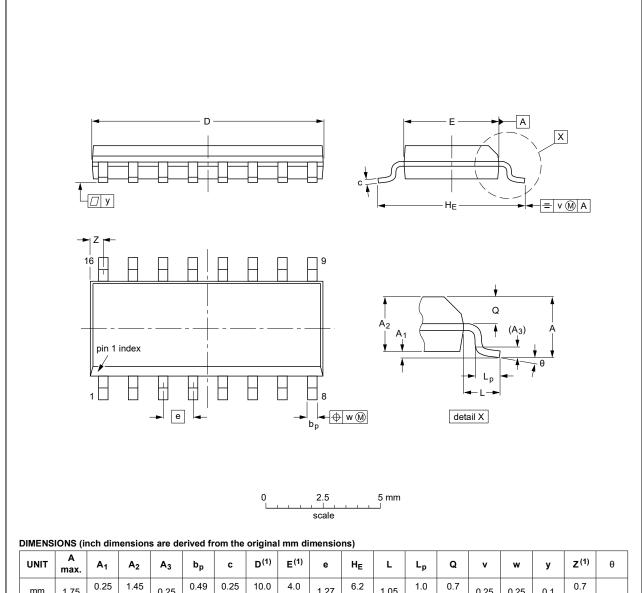
Table 9. Test data

Supply voltage	Input		Load		
	V _I	t _r , t _f	CL	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	

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°

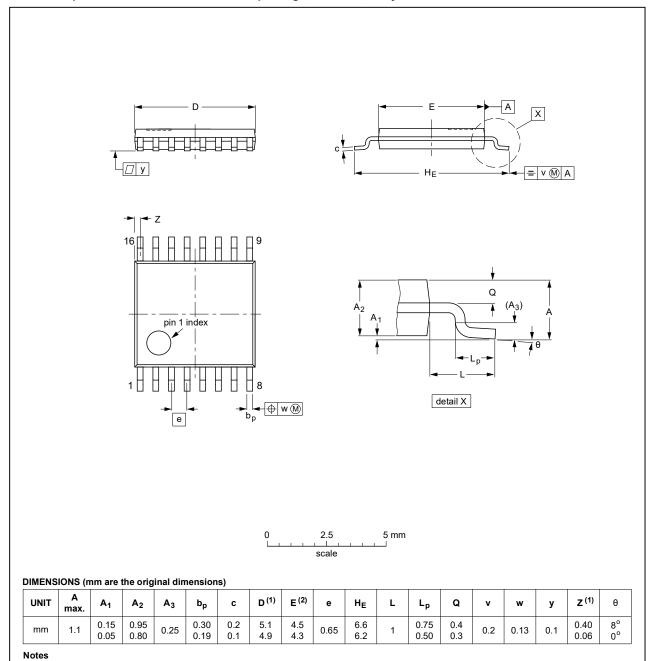
1. Plastic or metal protrusions of 0.15 mm (0.006 inch) maximum per side are not included.

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

Fig. 10. Package outline SOT109-1 (SO16)

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

Fig. 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

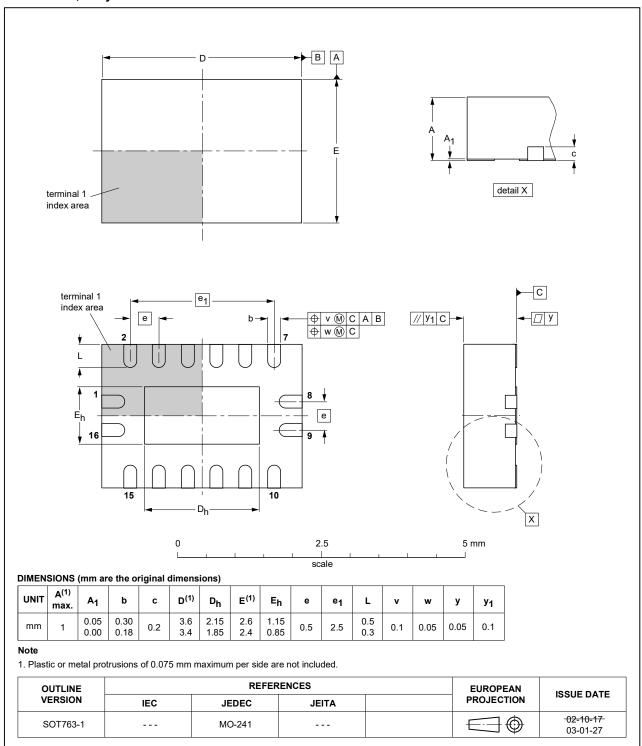


Fig. 12. Package outline SOT763-1 (DHVQFN16)

12. Abbreviations

Table 10. Abbreviations

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

13. Revision history

Table 11. Revision history

Table 11. Nevision history						
Document ID	Release date	Data sheet status	Change notice	Supersedes		
74LVC138A_Q100 v.3	20200828	Product data sheet	-	74LVC138A_Q100 v.2		
Modifications:	 Section 1 and Section 2 updated. Table 4: Derating values for P_{tot} total power dissipation updated. 					
74LVC138A_Q100 v.2	20190123	Product data sheet	-	74LVC138A_Q100 v.1		
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. 					
74LVC138A_Q100 v.1	20130404	Product data sheet	-	-		

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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