3-to-8 line decoder/demultiplexer; inverting Rev. 3 — 26 March 2018

Product data sheet

1 General description

The 74HC138-Q100; 74HCT138-Q100 decodes three binary weighted address inputs (A0, A1 and A2) to eight mutually exclusive outputs ($\overline{Y}0$ to $\overline{Y}7$). The device features three enable inputs ($\overline{E}1$, $\overline{E}2$ and 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 to a 1-of-32 (5 to 32 lines) decoder with just four '138 ICs and one inverter. The '138 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 include clamp diodes. This enables the use of current limiting resistors to interface inputs to voltages in excess of V_{CC} .

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
- Complies with JEDEC standard no. 7A
- Input levels:
 - For 74HC138-Q100: CMOS level
 - For 74HCT138-Q100: TTL level
- Demultiplexing capability
- Multiple input enable for easy expansion
- · Ideal for memory chip select decoding
- Active LOW mutually exclusive outputs
- 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

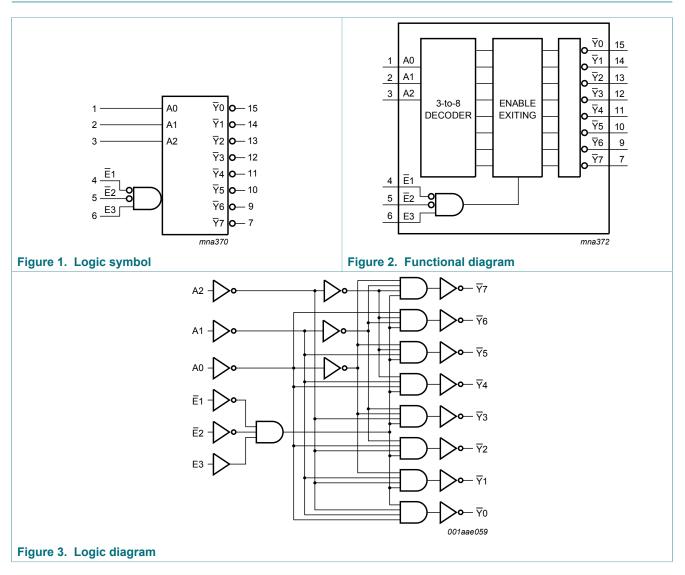
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3 Ordering information

Table 1. Ordering info	ormation						
Type number	Package						
	Temperature range	Name	Description	Version			
74HC138D-Q100	-40 °C to +125 °C	SO16	plastic small outline package; 16 leads;	SOT109-1			
74HCT138D-Q100	-		body width 3.9 mm				
74HC138PW-Q100	-40 °C to +125 °C	TSSOP16	plastic thin shrink small outline package;	SOT403-1			
74HCT138PW-Q100	-		16 leads; body width 4.4 mm				
74HC138BQ-Q100	-40 °C to +125 °C	DHVQFN16	plastic dual in-line compatible thermal enhanced	SOT763-1			
74HCT138BQ-Q100			very thin quad flat package; no leads; 16 terminals; body 2.5 × 3.5 × 0.85 mm				

4 Functional diagram

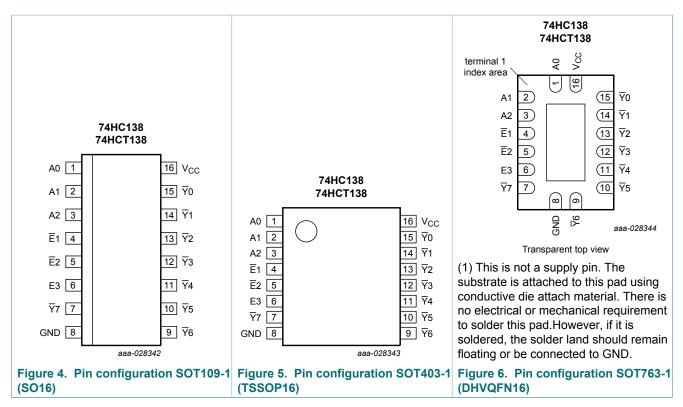


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5 Pinning information

5.1 Pinning



5.2 Pin description

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Table 2. Pin description		1
Symbol	Pin	Description
A0, A1, A2	1, 2, 3	address input
Ē1, Ē2	4, 5	enable input (active LOW)
E3	6	enable input (active HIGH)
<u>7</u> 0, <u>7</u> 1, <u>7</u> 2, <u>7</u> 3, <u>7</u> 4, <u>7</u> 5, <u>7</u> 6, <u>7</u> 7	15, 14, 13, 12, 11, 10, 9, 7	output (active LOW)
GND	8	ground (0 V)
V _{CC}	16	supply voltage

74HC138-Q100; 74HCT138-Q100

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Functional description 6

Table	3. Func	tion tabl	e ^[1]										
Conti	rol		Input			Outp	ut						
Ē1	E2	E3	A2	A1	A 0	Y 7	<u>¥</u> 6	Y 5	<u>¥</u> 4	<u></u> ¥3	<u></u> 72	<u></u> Y 1	Y 0
Н	Х	Х	Х	Х	Х	Н	Н	Н	Н	Н	Н	Н	Н
Х	Н	Х											
Х	Х	L											
L	L	Н	L	L	L	Н	Н	Н	Н	Н	Н	Н	L
			L	L	Н	Н	Н	Н	Н	Н	Н	L	Н
			L	Н	L	Н	Н	Н	Н	Н	L	Н	Н
			L	Н	Н	Н	Н	Н	Н	L	Н	Н	Н
			Н	L	L	Н	Н	Н	L	Н	Н	Н	Н
			Н	L	Н	Н	Н	L	Н	Н	Н	Н	Н
			Н	Н	L	Н	L	Н	Н	Н	Н	Н	Н
			Н	Н	Н	L	Н	Н	Н	Н	Н	Н	Н

[1] H = HIGH voltage level;

L = LOW voltage level;

X = don't care.

Limiting values 7

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	V
I _{IK}	input clamping current	$V_{\rm I}$ < -0.5 V or $V_{\rm I}$ > $V_{\rm CC}$ + 0.5 V	-	±20	mA
I _{OK}	output clamping current	$V_{\rm O}$ < -0.5 V or $V_{\rm O}$ > $V_{\rm CC}$ + 0.5 V	-	±20	mA
I _O	output current	V_{O} = -0.5 V to (V _{CC} + 0.5 V)	-	±25	mA
I _{CC}	quiescent supply current		-	50	mA
I _{GND}	ground current		-50	-	mA
T _{stg}	storage temperature		-65	+150	°C
P _{tot}	total power dissipation	[1]	-	500	mW

[1] For SO16 package: P_{tot} derates linearly with 8 mW/K above 70 °C. For TSSOP16 packages: P_{tot} derates linearly with 5.5 mW/K above 60 °C. For DHVQFN16 packages: 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	74	HC138-Q	100	74H	Unit		
			Min	Тур	Max	Min	Тур	Мах	
V _{CC}	supply voltage		2.0	5.0	6.0	4.5	5.0	5.5	V
VI	input voltage		0	-	V _{CC}	0	-	V _{CC}	V
Vo	output voltage		0	-	V _{CC}	0	-	V _{CC}	V
T _{amb}	ambient temperature		-40	+25	+125	-40	+25	+125	°C
Δt/ΔV	input transition rise and fall rate	V _{CC} = 2.0 V	-	-	625	-	-	-	ns/V
		V _{CC} = 4.5 V	-	1.67	139	-	1.67	139	ns/V
		V _{CC} = 6.0 V	-	-	83	-	-	-	ns/V

9 Static characteristics

Table 6. Static characteristics

At recommended operating conditions; voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	T _{ai}	_{mb} = 25	°C		-40 °C 35 °C	T _{amb} = to +1	-40 °C 25 °C	Unit
			Min	Тур	Max	Min	Мах	Min	Max	
74HC13	8-Q100									
V _{IH}	HIGH-level	V _{CC} = 2.0 V	1.5	1.2	-	1.5	-	1.5	-	V
	input voltage	V _{CC} = 4.5 V	3.15	2.4	-	3.15	-	3.15	-	V
		V _{CC} = 6.0 V	4.2	3.2	-	4.2	-	4.2	-	V
V _{IL}	LOW-level	V _{CC} = 2.0 V	-	0.8	0.5	-	0.5	-	0.5	V
	input voltage	V _{CC} = 4.5 V	-	2.1	1.35	-	1.35	-	1.35	V
		V _{CC} = 6.0 V	-	2.8	1.8	-	1.8	-	1.8	V
V _{OH}	HIGH-	$V_{I} = V_{IH} \text{ or } V_{IL}$								
	level output voltage	I _O = -20 μA; V _{CC} = 2.0 V	1.9	2.0	-	1.9	-	1.9	-	V
	. enage	I_{O} = -20 µA; V_{CC} = 4.5 V	4.4	4.5	-	4.4	-	4.4	-	V
		I _O = -20 μA; V _{CC} = 6.0 V	5.9	6.0	-	5.9	-	5.9	-	V
		I_{O} = -4.0 mA; V_{CC} = 4.5 V	3.98	4.32	-	3.84	-	3.7	-	V
		I _O = -5.2 mA; V _{CC} = 6.0 V	5.48	5.81	-	5.34	-	5.2	-	V
V _{OL}	LOW-level	$V_{I} = V_{IH} \text{ or } V_{IL}$								
	output voltage	I _O = 20 μA; V _{CC} = 2.0 V	-	0	0.1	-	0.1	-	0.1	V
	Voltago	I _O = 20 μA; V _{CC} = 4.5 V	-	0	0.1	-	0.1	-	0.1	V
		I _O = 20 μA; V _{CC} = 6.0 V	-	0	0.1	-	0.1	-	0.1	V
		I _O = 4.0 mA; V _{CC} = 4.5 V	-	0.15	0.26	-	0.33	-	0.4	V
		I _O = 5.2 mA; V _{CC} = 6.0 V	-	0.16	0.26	-	0.33	-	0.4	V

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Symbol	Parameter	Conditions	Tai	_{nb} = 25	°C		= -40 °C 85 °C		= -40 °C 25 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
lı	input leakage current	$V_{I} = V_{CC}$ or GND; $V_{CC} = 6.0 V$	-	-	±0.1	-	±1.0	-	±1.0	μA
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 6.0$ V	-	-	8.0	-	80	-	160	μA
CI	input capacitance		-	3.5	-					pF
74HCT1	38-Q100									
V _{IH}	HIGH-level input voltage	V_{CC} = 4.5 V to 5.5 V	2.0	1.6	-	2.0	-	2.0	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 4.5 V to 5.5 V	-	1.2	0.8	-	0.8	-	0.8	V
V _{OH}	HIGH-	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 4.5 \text{ V}$								
	level output voltage	I _O = -20 μA	4.4	4.5	-	4.4	-	4.4	-	V
	voltage	I _O = -4 mA	3.98	4.32	-	3.84	-	3.7	-	V
V _{OL}	LOW-level	$V_{I} = V_{IH}$ or V_{IL} ; $V_{CC} = 4.5 V$								
	output voltage	I _O = 20 μA	-	0	0.1	-	0.1	-	0.1	V
	. enage	I _O = 4.0 mA	-	0.15	0.26	-	0.33	-	0.4	V
lı	input leakage current	$V_{I} = V_{CC}$ or GND; $V_{CC} = 5.5 V$	-	-	±0.1	-	±1.0	-	±1.0	μA
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5$ V	-	-	8.0	-	80	-	160	μA
ΔI _{CC}	additional supply current	$V_{I} = V_{CC} - 2.1 V;$ other inputs at V _{CC} or GND; V _{CC} = 4.5 V to 5.5 V; I _O = 0 A								
		per input pin; An inputs	-	150	540	-	675	-	735	μA
		per input pin; En inputs	-	125	450	-	562.5	-	612.5	μA
		per input pin; E3 input	-	100	360	-	450	-	490	μA
CI	input capacitance		-	3.5	-	-	-	-	-	pF

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10 Dynamic characteristics

Table 7. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); C_L = 50 pF unless otherwise specified; for test circuit see Figure 9.

Symbol	Parameter	Conditions	T	_{amb} = 25	°C		-40 °C 85 °C		-40 °C 25 °C	Unit
			Min	Тур	Max	Min	Max	Min	Мах	
74HC13	8-Q100		L							
t _{pd}	propagation	An to Yn; see Figure 7	[1]							
	delay	V _{CC} = 2.0 V	-	41	150	-	190	-	225	ns
		V _{CC} = 4.5 V	-	15	30	-	38	-	45	ns
		V _{CC} = 5 V; C _L = 15 pF	-	12	-	-	-	-	-	ns
		V _{CC} = 6.0 V	-	12	26	-	33	-	38	ns
		E3 to Yn; see <u>Figure 7</u>	[1]							
		V _{CC} = 2.0 V	-	47	150	-	190	-	225	ns
		V _{CC} = 4.5 V	-	17	20	-	38	-	45	ns
		V _{CC} = 5 V; C _L = 15 pF	-	14	-	-	-	-	-	ns
		V _{CC} = 6.0 V	-	14	26	-	33	-	38	ns
		En to Yn; see <u>Figure 8</u>	[1]							
		V _{CC} = 2.0 V	-	47	150	-	190	-	225	ns
		V _{CC} = 4.5 V	-	17	20	-	38	-	45	ns
		V _{CC} = 5 V; C _L = 15 pF	-	14	-	-	-	-	-	ns
		V _{CC} = 6.0 V	-	14	26	-	33	-	38	ns
t _t	transition time	Yn; see <u>Figure 7</u> and <u>Figure 8</u>	[2]							
		V _{CC} = 2.0 V	-	19	75	-	95	-	110	ns
		V _{CC} = 4.5 V	-	7	15	-	19	-	22	ns
		V _{CC} = 6.0 V	-	6	13	-	16	-	19	ns
C _{PD}	power dissipation capacitance	C_L = 50 pF; f = 1 MHz; V _I = GND to V _{CC}	[3] _	67	-	-	-	-	-	pF

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Symbol	Parameter	Conditions		Г _{атb} = 25	°C		= -40 °C 85 °C		-40 °C 25 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
74HCT1	38-Q100						1	,		
t _{pd}	propagation	An to Yn; see <u>Figure 7</u>	[1]							
	delay	V _{CC} = 4.5 V	-	20	35	-	44	-	53	ns
		V _{CC} = 5 V; C _L = 15 pF	-	17	-	-	-	-	-	ns
		E3 to Yn; see Figure 7	[1]							
		V _{CC} = 4.5 V	-	18	40	-	50	-	60	ns
		V _{CC} = 5 V; C _L = 15 pF	-	19	-	-	-	-	-	ns
		En to Yn; see Figure 8	[1]							
		V _{CC} = 4.5 V	-	19	40	-	50	-	60	ns
		V _{CC} = 5 V; C _L = 15 pF	-	19	-	-	-	-	-	ns
t _t	transition time	Yn; see <u>Figure 7</u> and <u>Figure 8</u>	[2]							
		V _{CC} = 4.5 V	-	7	15	-	19	-	22	ns
C _{PD}	power dissipation capacitance	C_L = 50 pF; f = 1 MHz; V _I = GND to V _{CC} - 1.5 V	[3] _	67	-	-	-	-	-	pF

 $P_{D} = C_{PD} \times V_{CC}^{2} \times f_{i} \times N + \Sigma (C_{L} \times V_{CC}^{2} \times f_{o}) \text{ where:}$

 f_i = input frequency in MHz;

 f_o = output frequency in MHz;

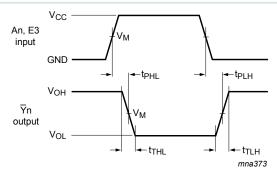
 C_L = output load capacitance in pF;

 V_{CC} = supply voltage in V; N = number of inputs switching;

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

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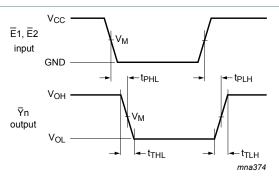
10.1 Waveforms and test circuit



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

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

Figure 7. Propagation delay input (An) and enable input (E3) to output (Yn) and transition time output (Yn)



Measurement points are given in Table 8.

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

Figure 8. Propagation delay enable input ($\overline{E}n$) to output ($\overline{Y}n$) and transition time output ($\overline{Y}n$)

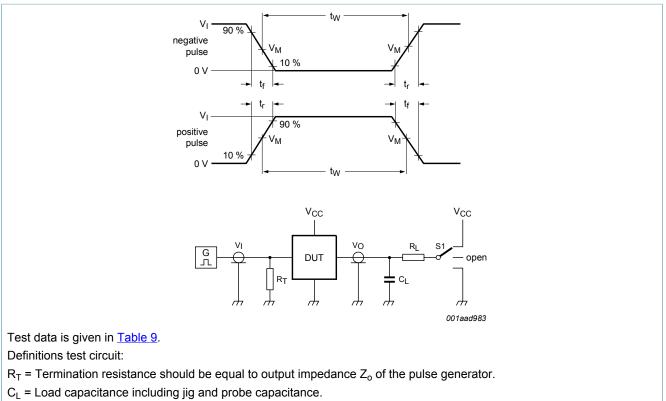
Table 8. Measurement points

Туре	Input	Output
	V _M	V _M
74HC138-Q100	0.5V _{CC}	0.5V _{CC}
74HCT138-Q100	1.3 V	1.3 V

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74HC138-Q100; 74HCT138-Q100

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R_L = Load resistance.

S1 = Test selection switch.

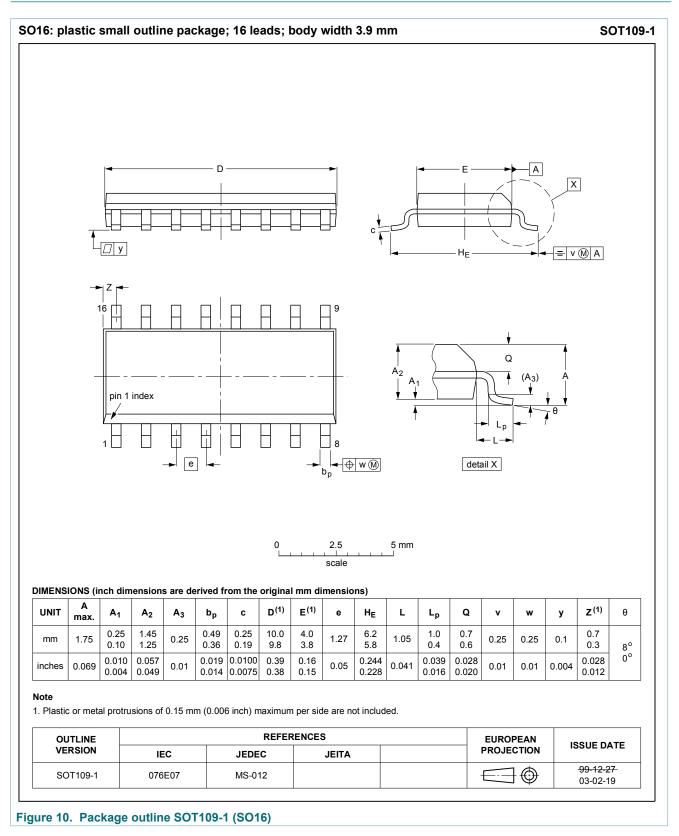
Figure 9. Test circuit for measuring switching times

Table 9. Test data

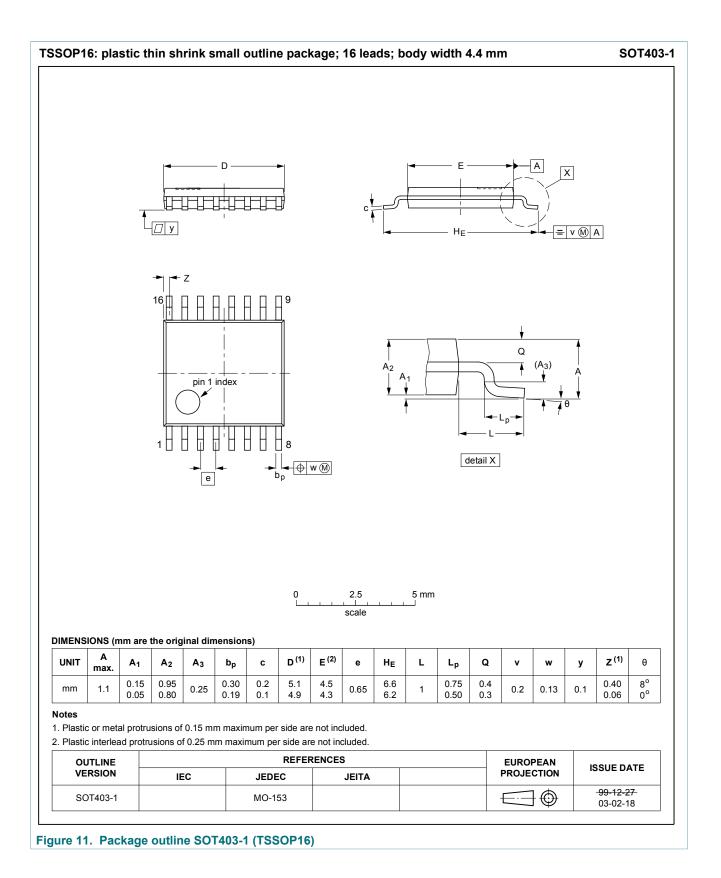
Туре	Input		Load		S1 position			
	VI	t _r , t _f	CL	RL	t _{PHL} , t _{PLH}	t _{PZH} , t _{PHZ}	t _{PZL} , t _{PLZ}	
74HC138-Q100	V _{CC}	6 ns	15 pF, 50 pF	1 kΩ	open	GND	V _{CC}	
74HCT138-Q100	3 V	6 ns	15 pF, 50 pF	1 kΩ	open	GND	V _{CC}	

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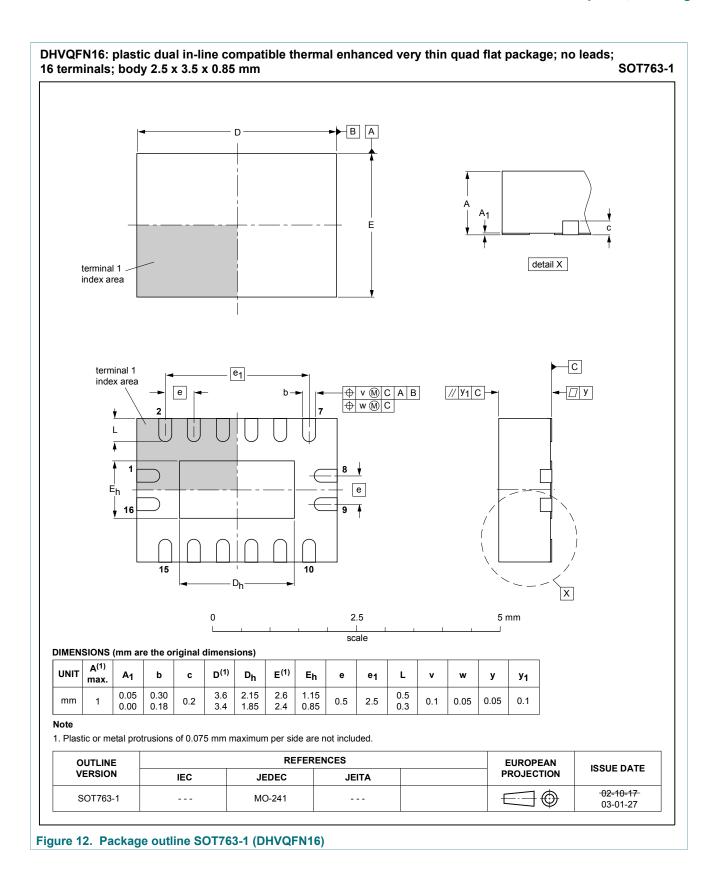
11 Package outline



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12 Abbreviations

ions
Description
Complementary Metal-Oxide Semiconductor
Device Under Test
ElectroStatic Discharge
Human Body Model
Military
Machine Model
Transistor-Transistor Logic

13 Revision history

Table 11. Revision history							
Document ID	Release date	Data sheet status	Change notice	Supersedes			
74HC_HCT138_Q100 v.3	20180326	Product data sheet	-	74HC_HCT138_Q100 v.2			
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. 						
74HC_HCT138_Q100 v.2	20150126	Product data sheet	-	74HC_HCT138_Q100 v.1			
Modifications:	 <u>Section 9</u>: OFF-state output current removed because device has no 3-state outputs. <u>Section 10</u>: Power dissipation capacitance condition for 74HCT138 is corrected. 						
74HC_HCT138_Q100 v.1	20120716	Product data sheet	-	-			

3-to-8 line decoder/demultiplexer: inverting

14 Legal information

14.1 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.

Please consult the most recently issued document before initiating or completing a design. [1]

The term 'short data sheet' is explained in section "Definitions".

[2] [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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Please be aware that important notices concerning this document and the product(s) described herein, have been included in section 'Legal information'.

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