

1. General description

The 74HC238; 74HCT238 decodes three binary weighted address inputs (A0, A1 and A2) to eight mutually exclusive outputs (Y0 to Y7). The device features three enable inputs (E1 and E2 and E3). Every output will be LOW unless E1 and E2 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 '238 ICs and one inverter. The '238 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} .

2. Features and benefits

- Wide supply voltage range from 2.0 to 6.0 V
- CMOS low power dissipation
- High noise immunity
- Demultiplexing capability
- Multiple input enable for easy expansion
- Ideal for memory chip select decoding
- Active HIGH mutually exclusive outputs
- Input levels:
 - For 74HC238: CMOS level
 - For 74HCT238: TTL level
- Complies with JEDEC standards
 - JESD8C (2.7 V to 3.6 V)
 - JESD7A (2.0 V to 6.0 V)
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level B
- ESD protection:
 - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
 - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V
- Multiple package options
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C

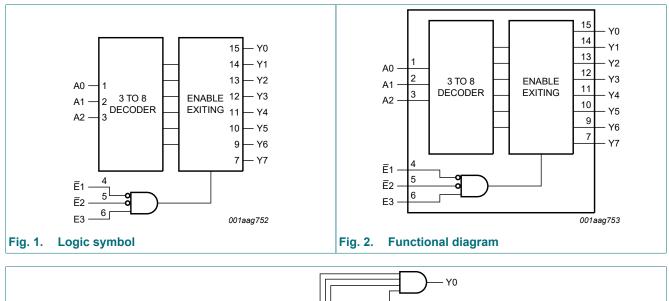
3. Ordering information

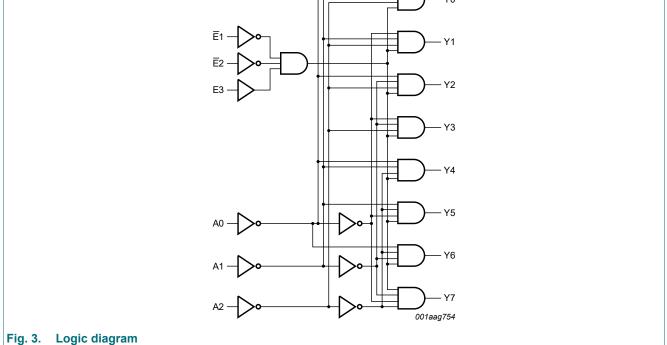
Table 1. Ordering information

Type number	Package			
	Temperature range	Name	Description	Version
74HC238D 74HCT238D	-40 °C to +125 °C	SO16	plastic small outline package; 16 leads; body width 3.9 mm	<u>SOT109-1</u>
74HC238PW 74HCT238PW	-40 °C to +125 °C	TSSOP16	plastic thin shrink small outline package; 16 leads; body width 4.4 mm	<u>SOT403-1</u>
74HC238BQ 74HCT238BQ	-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	<u>SOT763-1</u>



4. Functional diagram



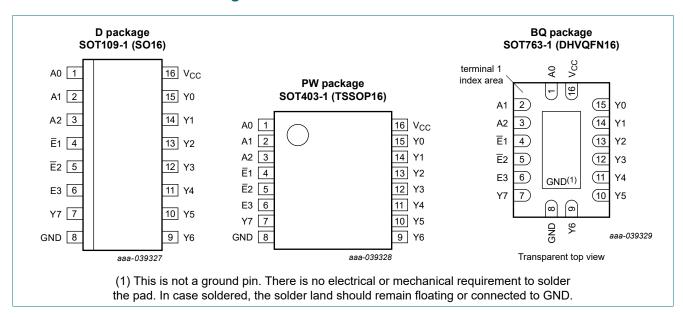


Product data sheet

5. Pinning information

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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)
Y0, Y1, Y2, Y3, Y4, Y5, Y6, Y7	15, 14, 13, 12, 11, 10, 9, 7	output
GND	8	ground (0 V)
V _{CC}	16	supply voltage

6. Functional description

Table 3. Function table

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

Inputs						Outp	Outputs						
E1	E2	E3	A0	A1	A2	Y0	Y1	Y2	Y3	Y4	Y5	Y6	Y7
Н	Х	Х	Х	Х	Х	L	L	L	L	L	L	L	L
Х	Н	Х	Х	Х	Х	L	L	L	L	L	L	L	L
Х	Х	L	Х	Х	Х	L	L	L	L	L	L	L	L
L	L	Н	L	L	L	Н	L	L	L	L	L	L	L
L	L	Н	Н	L	L	L	Н	L	L	L	L	L	L
L	L	Н	L	Н	L	L	L	Н	L	L	L	L	L
L	L	Н	Н	Н	L	L	L	L	Н	L	L	L	L
L	L	Н	L	L	Н	L	L	L	L	Н	L	L	L
L	L	Н	Н	L	Н	L	L	L	L	L	Н	L	L
L	L	Н	L	Н	Н	L	L	L	L	L	L	Н	L
L	L	Н	Н	Н	н	L	L	L	L	L	L	L	Н

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	V
I _{IK}	input clamping current	$V_{\rm I} < -0.5 \text{ V or } V_{\rm I} > V_{\rm CC} + 0.5 \text{ V}$ [1]	-	±20	mA
I _{OK}	output clamping current	$V_{\rm O} < -0.5 \text{ V or } V_{\rm O} > V_{\rm CC} + 0.5 \text{ V}$ [1]	-	±20	mA
lo	output current	-0.5 V < V _O < 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	[2]	-	500	mW

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

[2] 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

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

Symbol	Parameter	Conditions		74HC238		7	4HCT23	8	Unit
			Min	Тур	Max	Min	Тур	Max	
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	-	+125	-40	-	+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		25 °C			°C to 5 °C	-40 °C to +125 °C		Unit
			Min	Тур	Мах	Min	Мах	Min	Max	1
74HC238	8									
VIH	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-level	V _I = V _{IH} or V _{IL}								
	output voltage	I _O = -20 μA; V _{CC} = 2.0 V	1.9	2.0	-	1.9	-	1.9	-	V
		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} or V _{IL}								
	output voltage	I _O = 20 μA; V _{CC} = 2.0 V	-	0	0.1	-	0.1	-	0.1	V
		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
I	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

3-to-8 line decoder/demultiplexer

Symbol	Parameter	Conditions		25 °C			°C to 5 °C		°C to 5 °C	Unit	
			Min	Тур	Мах	Min	Мах	Min	Max		
74HCT2	38	1	-		-						
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-level	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 4.5 \text{ V}$									
	output voltage	I _O = -20 μA	4.4	4.5	-	4.4	-	4.4	-	V	
		I _O = -4.0 mA	3.98	4.32	-	3.84	-	3.7	-	V	
V _{OL}	LOW-level	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 4.5 \text{ V}$									
	output voltage	I _O = 20 μA	-	0	0.1	-	0.1	-	0.1	V	
		I _O = 4.0 mA	-	0.16	0.26	-	0.33	-	0.4	V	
l _l	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; $V_{CC} = 5.5 V$; $I_O = 0 A$	-	-	8.0	-	80	-	160	μA	
ΔI _{CC}	additional supply current	per input pin; $V_I = V_{CC} - 2.1 V$; $I_O = 0 A$; other inputs at V_{CC} or GND; $V_{CC} = 4.5 V$ to 5.5 V									
		An inputs	-	70	252	-	315	-	343	μA	
		E1, E2 inputs	-	40	144	-	180	-	196	μA	
		E3 input	-	145	522	-	653	-	711	μA	
CI	input capacitance		-	3.5	-	-	-	-	-	pF	

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10. Dynamic characteristics

Table 7. Dynamic characteristics

GND = 0 V; test circuit see Fig. 6.

Symbol	Parameter	Conditions		25 °C			°C to 5 °C	-40 °C to +125 °C		Unit
			Min	Тур	Max	Min	Max	Min	Max	
74HC23	8									
t _{pd}	propagation	An to Yn; see Fig. 4 [1]								
	delay	V _{CC} = 2.0 V	-	47	150	-	190	-	225	ns
		V _{CC} = 4.5 V	-	17	30	-	38	-	45	ns
		V _{CC} = 5.0 V; C _L = 15 pF	-	14	-	-	-	-	-	ns
		V _{CC} = 6.0 V	-	14	26	-	33	-	38	ns
		E3 to Yn; see <u>Fig. 4</u> [1]								
		V _{CC} = 2.0 V	-	52	160	-	200	-	240	ns
		V _{CC} = 4.5 V	-	19	32	-	40	-	48	ns
		V _{CC} = 5.0 V; C _L = 15 pF	-	16	-	-	-	-	-	ns
		V _{CC} = 6.0 V	-	15	27	-	34	-	41	ns
		En to Yn or see Fig. 5 [1]								
		V _{CC} = 2.0 V	-	50	155	-	195	-	235	ns
		V _{CC} = 4.5 V	-	18	31	-	39	-	47	ns
		V _{CC} = 5.0 V; C _L = 15 pF	-	17	-	-	-	-	-	ns
		V _{CC} = 6.0 V	-	14	26	-	33	-	40	ns
t _t	transition time	see <u>Fig. 4</u> and <u>Fig. 5</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	per package; V_1 = GND to V_{CC} [3]	-	72	-	-	-	-	-	pF

3-to-8 line decoder/demultiplexer

Symbol	Parameter	Conditions			25 °C			°C to 5 °C	-40 °C to +125 °C		Unit
				Min	Тур	Max	Min	Max	Min	Max	
74HCT2	38	1									-
t _{pd}	propagation	An to Yn; see Fig. 4	[1]								
	delay	V _{CC} = 4.5 V		-	19	35	-	44	-	53	ns
		V _{CC} = 5.0 V; C _L = 15 pF		-	18	-	-	-	-	-	ns
		E3 to Yn; see Fig. 4	[1]								
		V _{CC} = 4.5 V		-	20	37	-	46	-	56	ns
		V _{CC} = 5.0 V; C _L = 15 pF		-	20	-	-	-	-	-	ns
		En to Yn or see Fig. 5	[1]								
		V _{CC} = 4.5 V		-	20	35	-	44	-	53	ns
		V _{CC} = 5.0 V; C _L = 15 pF		-	21	-	-	-	-	-	ns
t _t	transition time	V _{CC} = 4.5 V; see <u>Fig. 4</u> and <u>Fig. 5</u>	[2]	-	7	15	-	19	-	22	ns
C _{PD}	power dissipation capacitance	per package; V _I = GND to V _{CC} - 1.5 V	[3]	-	76	-	-	-	-	-	pF

 C_{PD} is used to determine the dynamic power dissipation (P_D in μ W): [3]

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

 f_i = input frequency in MHz;

 $f_o = output$ frequency in MHz;

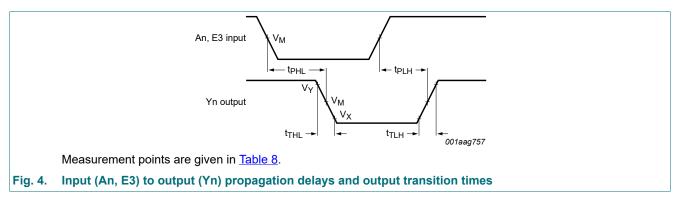
 C_L = output load capacitance in pF;

V_{CC} = supply voltage in V;

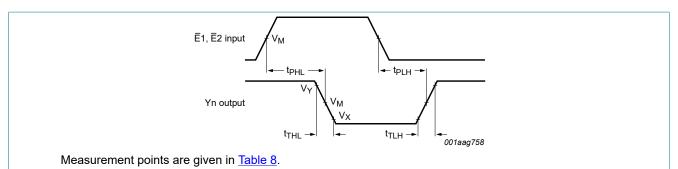
N = number of inputs switching;

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

10.1. Waveforms and test circuit

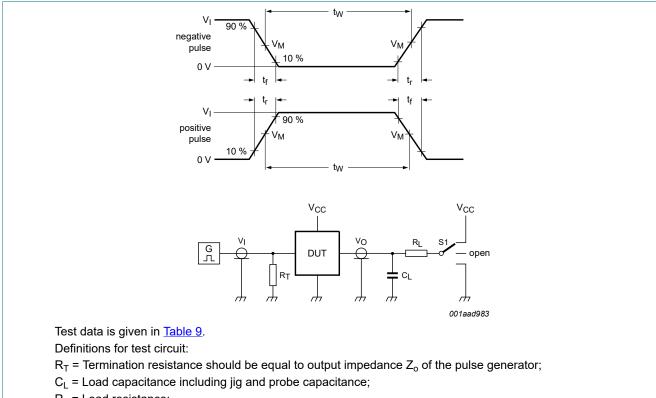


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Input (E1, E2) to output (Yn) propagation delays and output transition times Fig. 5.

Table 8. Measurement p	points			
Туре	Input	Output		
	V _M	V _M	V _X	V _Y
74HC238	0.5 × V _{CC}	0.5 × V _{CC}	0.1 × V _{CC}	0.9 × V _{CC}
74HCT238	1.3 V	1.3 V	0.1 × V _{CC}	$0.9 \times V_{CC}$



R_L = Load resistance;

S1 = Test selection switch.

Test circuit for measuring switching times Fig. 6.

Table 9. Test data					
Туре	Input		Load		S1 position
	VI	t _r , t _f	CL	RL	t _{PHL} , t _{PLH}
74HC238	V _{CC}	6 ns	15 pF, 50 pF	1 kΩ	open
74HCT238	3 V	6 ns	15 pF, 50 pF	1 kΩ	open

74HC_HCT238

11. Package outline

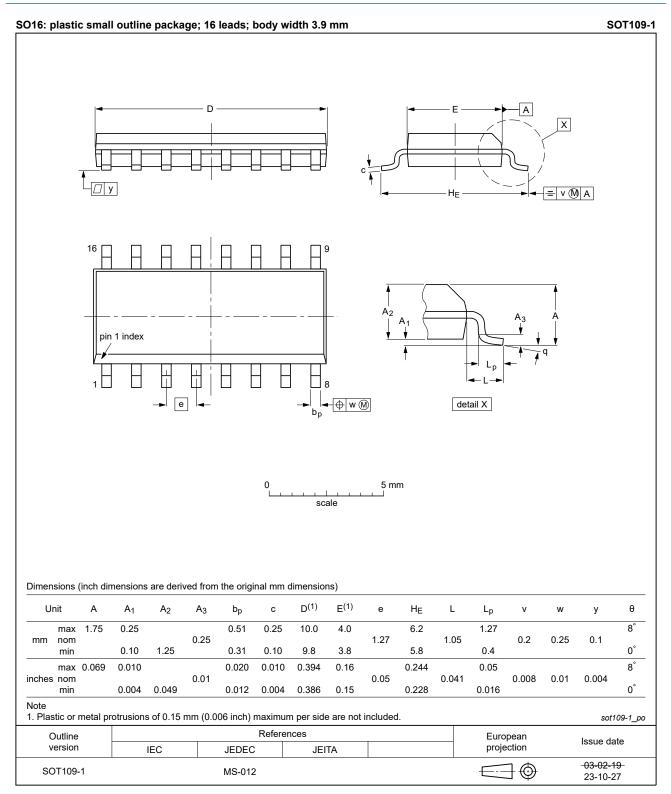


Fig. 7. Package outline SOT109-1 (SO16)

3-to-8 line decoder/demultiplexer

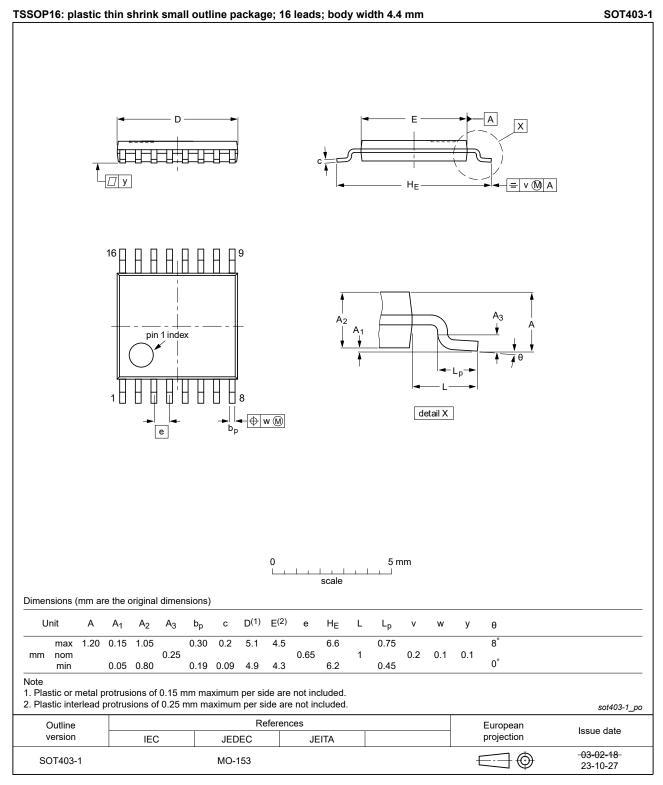


Fig. 8. Package outline SOT403-1 (TSSOP16)

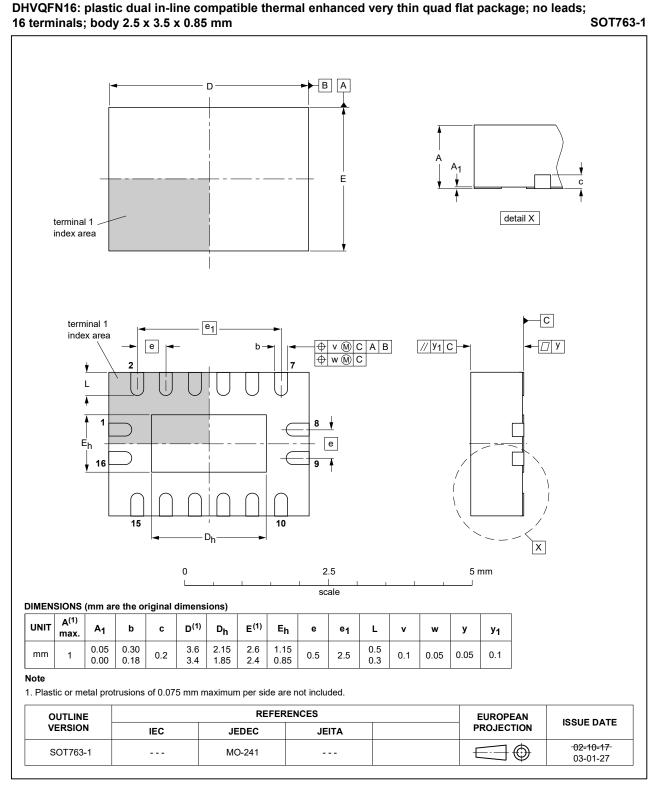


Fig. 9. Package outline SOT763-1 (DHVQFN16)

⁷⁴HC_HCT238

12. Abbreviations

Table 10. Abbreviati	ons
Acronym	Description
CDM	Charged Device Model
CMOS	Complementary Metal Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
HBM	Human Body Model
TTL	Transistor-Transistor Logic

13. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74HC_HCT238 v.8	20240321	Product data sheet	-	74HC_HCT238 v.7	
Modifications:	 <u>Section 2</u>: ESD specification updated according to the latest JEDEC standard. <u>Fig. 7</u>, <u>Fig. 8</u>: Aligned SO and TSSOP package outline drawings to JEDEC MS-012 and MO-153 				
74HC_HCT238 v.7	20210902	Product data sheet	-	74HC_HCT238 v.6	
Modifications:	Type number 74HCT238DB (SOT338-1) removed.				
74HC_HCT238 v.6	20200403	Product data sheet	-	74HC_HCT238 v.5	
Modifications:	 Type number 74HC238DB (SOT338-1) removed. <u>Table 4</u>: Derating values for P_{tot} total power dissipation updated. 				
74HC_HCT238 v.5	20180613	Product data sheet	-	74HC_HCT238 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. Fig. 3: typo corrected. 				
74HC_HCT238 v.4	20160127	Product data sheet	-	74HC_HCT238 v.3	
Modifications:	Type numbers 74HC238N and 74HCT238N (SOT38-4) removed.				
74HC_HCT238 v.3	20070716	Product data sheet	-	74HC_HCT238_CNV 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. Added type number 74HC238BQ and 74HCT238BQ (DHVQFN16 package) 				
74HC_HCT238_CNV v.2	19970828	Product specification	-	-	

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".
- [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 <u>https://www.nexperia.com</u>.

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