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Kind regards,

Team Nexperia

74HC154; 74HCT154

4-to-16 line decoder/demultiplexer

Rev. 7 — 29 February 2016

Product data sheet

1. General description

The 74HC154; 74HCT154 is a 4-to-16 line decoder/demultiplexer. It decodes four binary weighted address inputs (A0 to A3) to sixteen mutually exclusive outputs (Y0 to Y15). The device features two input enable ($\overline{E0}$ and $\overline{E1}$) inputs. A HIGH on either of the input enables forces the outputs HIGH. The device can be used as a 1-to-16 demultiplexer by using one of the enable inputs as the multiplexed data input. When the other enable input is LOW the addressed output will follow the state of the applied data. 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

- 16-line demultiplexing capability
- Decodes 4 binary-coded inputs into 16 mutually-exclusive outputs
- Complies with JEDEC standard no. 7A
- Input levels:
 - ◆ For 74HC154: CMOS level
 - ◆ For 74HCT154: TTL level
- ESD protection:
 - ◆ HBM JESD22-A114F exceeds 2000 V
 - ◆ MM JESD22-A115-A exceeds 200 V
- Multiple package options
- Specified from $-40\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$ and $-40\text{ }^{\circ}\text{C}$ to $+125\text{ }^{\circ}\text{C}$

3. Ordering information

Table 1. Ordering information

Type number	Package			
	Temperature range	Name	Description	Version
74HC154D	$-40\text{ }^{\circ}\text{C}$ to $+125\text{ }^{\circ}\text{C}$	SO24	plastic small outline package; 24 leads; body width 7.5 mm	SOT137-1
74HCT154D				
74HC154DB	$-40\text{ }^{\circ}\text{C}$ to $+125\text{ }^{\circ}\text{C}$	SSOP24	plastic shrink small outline package; 24 leads; body width 5.3 mm	SOT340-1
74HCT154DB				
74HC154PW	$-40\text{ }^{\circ}\text{C}$ to $+125\text{ }^{\circ}\text{C}$	TSSOP24	plastic thin shrink small outline package; 24 leads; body width 4.4 mm	SOT355-1
74HCT154PW				
74HC154BQ	$-40\text{ }^{\circ}\text{C}$ to $+125\text{ }^{\circ}\text{C}$	DHVQFN24	plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 24 terminals; body $3.5 \times 5.5 \times 0.85\text{ mm}$	SOT815-1
74HCT154BQ				



4. Functional diagram

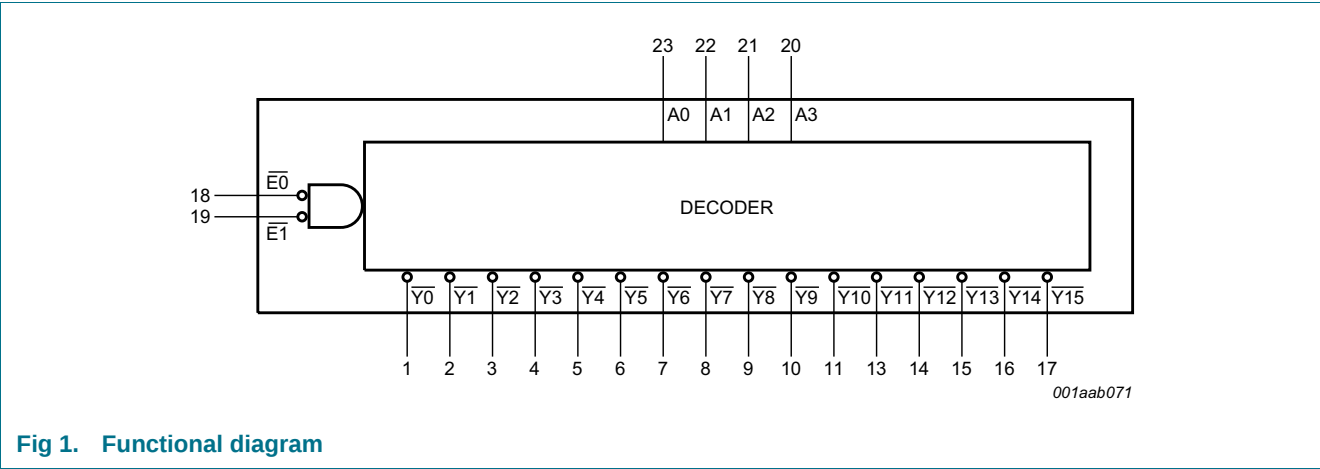


Fig 1. Functional diagram

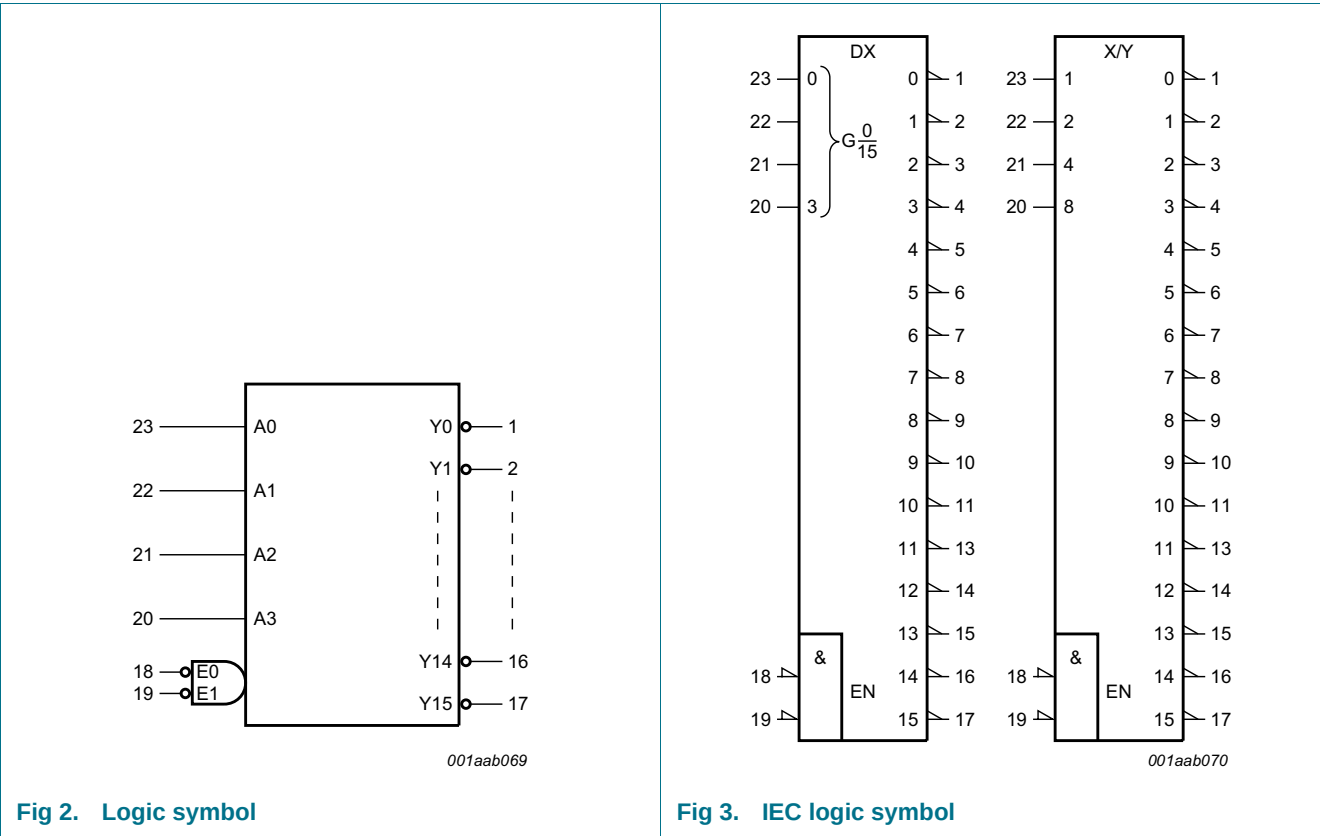


Fig 2. Logic symbol

Fig 3. IEC logic symbol

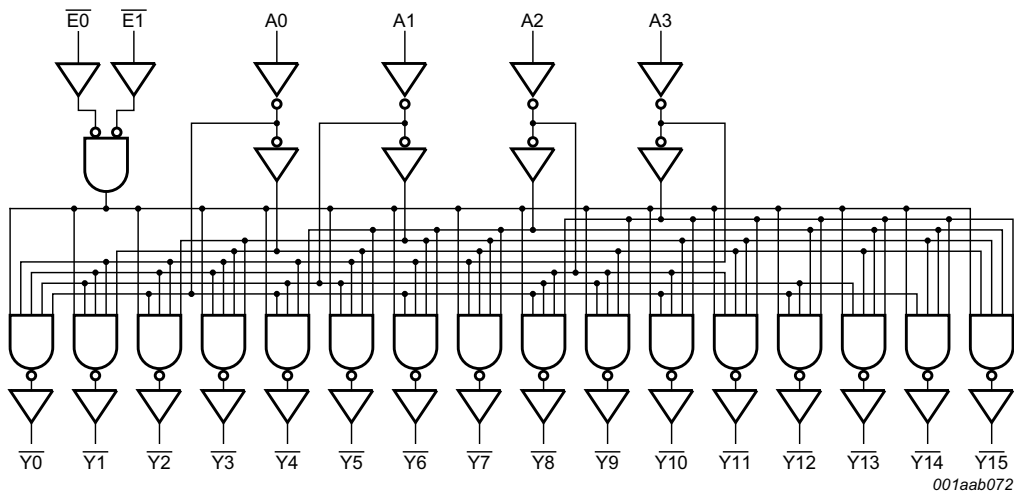


Fig 4. Logic diagram

5. Pinning information

5.1 Pinning

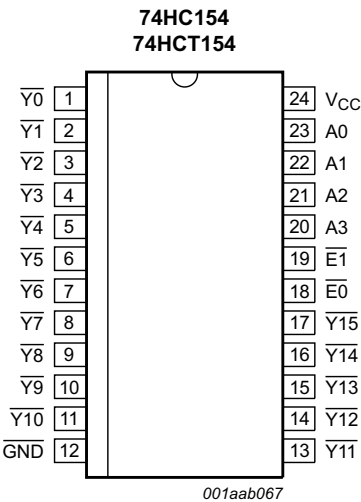
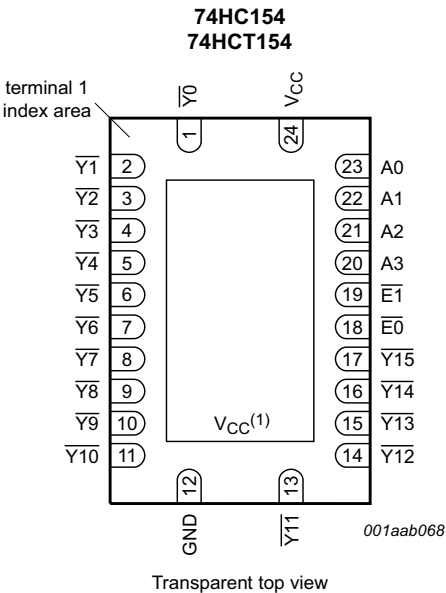


Fig 5. Pin configuration for SO24, SSOP24 and TSSOP24



- (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 VCC.

Fig 6. Pin configuration for DHVQFN24

5.2 Pin description

Table 2. Pin description

Symbol	Pin	Description
$\overline{Y0}, \overline{Y1}, \overline{Y2}, \overline{Y3}, \overline{Y4}, \overline{Y5}, \overline{Y6}, \overline{Y7}, \overline{Y8}, \overline{Y9}, \overline{Y10}, \overline{Y11}, \overline{Y12}, \overline{Y13}, \overline{Y14}, \overline{Y15}$	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17	data output (active LOW)
GND	12	ground (0 V)
$\overline{E0}, \overline{E1}$	18, 19	enable input (active LOW)
A0, A1, A2, A3	23, 22, 21, 20	address input
V _{CC}	24	supply voltage

6. Functional description

Table 3. Function table^[1]

Input						Output															
$\overline{E0}$	$\overline{E1}$	A0	A1	A2	A3	$\overline{Y0}$	$\overline{Y1}$	$\overline{Y2}$	$\overline{Y3}$	$\overline{Y4}$	$\overline{Y5}$	$\overline{Y6}$	$\overline{Y7}$	$\overline{Y8}$	$\overline{Y9}$	$\overline{Y10}$	$\overline{Y11}$	$\overline{Y12}$	$\overline{Y13}$	$\overline{Y14}$	$\overline{Y15}$
H	H	X	X	X	X	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
H	L	X	X	X	X	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
L	H	X	X	X	X	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
L	L	L	L	L	L	L	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
		H	L	L	L	H	L	H	H	H	H	H	H	H	H	H	H	H	H	H	H
		L	H	L	L	H	H	L	H	H	H	H	H	H	H	H	H	H	H	H	H
		H	H	L	L	H	H	H	L	H	H	H	H	H	H	H	H	H	H	H	H
		L	L	H	L	H	H	H	H	L	H	H	H	H	H	H	H	H	H	H	H
		H	L	H	L	H	H	H	H	H	L	H	H	H	H	H	H	H	H	H	H
		L	H	H	L	H	H	H	H	H	H	L	H	H	H	H	H	H	H	H	H
		H	H	H	L	H	H	H	H	H	H	H	L	H	H	H	H	H	H	H	H
		L	L	L	H	H	H	H	H	H	H	H	H	L	H	H	H	H	H	H	H
		H	L	L	H	H	H	H	H	H	H	H	H	H	L	H	H	H	H	H	H
		L	H	L	H	H	H	H	H	H	H	H	H	H	H	L	H	H	H	H	H
		H	H	L	H	H	H	H	H	H	H	H	H	H	H	H	L	H	H	H	H
		L	L	H	H	H	H	H	H	H	H	H	H	H	H	H	H	L	H	H	H
		H	L	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	L	H	H
		L	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	L	H
		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	L

[1] H = HIGH voltage level

L = LOW voltage level

X = don't care.

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	$V_I < -0.5\text{ V}$ or $V_I > V_{CC} + 0.5\text{ V}$ [1]	-	± 20	mA
I_{OK}	output clamping current	$V_O < -0.5\text{ V}$ or $V_O > V_{CC} + 0.5\text{ V}$ [1]	-	± 20	mA
I_O	output current	$-0.5\text{ V} < V_O < V_{CC} + 0.5\text{ V}$ [1]	-	± 25	mA
I_{CC}	supply current	[1]	-	50	mA
I_{GND}	ground current	[1]	-	-50	mA
T_{stg}	storage temperature		-65	+150	°C
P_{tot}	total power dissipation	$T_{amb} = -40\text{ °C}$ to $+125\text{ °C}$ [2]	-	300	mW

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

[2] For SO24 packages: P_{tot} derates linearly at 8 mW/K above 70 °C.

For SSOP24 and TSSOP24 packages: P_{tot} derates linearly at 5.5 mW/K above 60 °C.

For DHVQFN24 packages: P_{tot} derates linearly at 4.5 mW/K above 60 °C.

8. Recommended operating conditions

Table 5. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V)

Symbol	Parameter	Conditions	74HC154			74HCT154			Unit
			Min	Typ	Max	Min	Typ	Max	
V_{CC}	supply voltage		2.0	5.0	6.0	4.5	5.0	5.5	V
V_I	input voltage		0	-	V_{CC}	0	-	V_{CC}	V
V_O	output voltage		0	-	V_{CC}	0	-	V_{CC}	V
T_{amb}	ambient temperature		-40	+25	+125	-40	+25	+125	°C
$\Delta t/\Delta V$	input transition rise and fall rate	$V_{CC} = 2.0\text{ V}$	-	-	625	-	-	-	ns/V
		$V_{CC} = 4.5\text{ V}$	-	1.67	139	-	1.67	139	ns/V
		$V_{CC} = 6.0\text{ V}$	-	-	83	-	-	-	ns/V

9. Static characteristics

Table 6. Static characteristics 74HC154

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

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
T_{amb} = 25 °C						
V _{IH}	HIGH-level input voltage	V _{CC} = 2.0 V	1.5	1.2	-	V
		V _{CC} = 4.5 V	3.15	2.4	-	V
		V _{CC} = 6.0 V	4.2	3.2	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 2.0 V	-	0.8	0.5	V
		V _{CC} = 4.5 V	-	2.1	1.35	V
		V _{CC} = 6.0 V	-	2.8	1.8	V
V _{OH}	HIGH-level output voltage	V _I = V _{IH} or V _{IL}				
		V _{CC} = 2.0 V; I _O = -20 µA	1.9	2.0	-	V
		V _{CC} = 4.5 V; I _O = -20 µA	4.4	4.5	-	V
		V _{CC} = 6.0 V; I _O = -20 µA	5.9	6.0	-	V
		V _{CC} = 4.5 V; I _O = -4.0 mA	3.98	4.32	-	V
		V _{CC} = 6.0 V; I _O = -5.2 mA	5.48	5.81	-	V
V _{OL}	LOW-level output voltage	V _I = V _{IH} or V _{IL}				
		V _{CC} = 2.0 V; I _O = 20 µA	-	0	0.1	V
		V _{CC} = 4.5 V; I _O = 20 µA	-	0	0.1	V
		V _{CC} = 6.0 V; I _O = 20 µA	-	0	0.1	V
		V _{CC} = 4.5 V; I _O = 4.0 mA	-	0.15	0.26	V
		V _{CC} = 6.0 V; I _O = 5.2 mA	-	0.16	0.26	V
I _I	input leakage current	V _{CC} = 6.0 V; V _I = V _{CC} or GND	-	-	±0.1	µA
I _{CC}	supply current	V _{CC} = 6.0 V; V _I = V _{CC} or GND; I _O = 0 A	-	-	8.0	µA
C _I	input capacitance		-	3.5	-	pF
T_{amb} = -40 °C to +85 °C						
V _{IH}	HIGH-level input voltage	V _{CC} = 2.0 V	1.5	-	-	V
		V _{CC} = 4.5 V	3.15	-	-	V
		V _{CC} = 6.0 V	4.2	-	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 2.0 V	-	-	0.5	V
		V _{CC} = 4.5 V	-	-	1.35	V
		V _{CC} = 6.0 V	-	-	1.8	V
V _{OH}	HIGH-level output voltage	V _I = V _{IH} or V _{IL}				
		V _{CC} = 2.0 V; I _O = -20 µA	1.9	-	-	V
		V _{CC} = 4.5 V; I _O = -20 µA	4.4	-	-	V
		V _{CC} = 6.0 V; I _O = -20 µA	5.9	-	-	V
		V _{CC} = 4.5 V; I _O = -4.0 mA	3.84	-	-	V
		V _{CC} = 6.0 V; I _O = -5.2 mA	5.34	-	-	V

Table 6. Static characteristics 74HC154 ...continued

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

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V _{OL}	LOW-level output voltage	V _I = V _{IH} or V _{IL}				
		V _{CC} = 2.0 V; I _O = 20 µA	-	-	0.1	V
		V _{CC} = 4.5 V; I _O = 20 µA	-	-	0.1	V
		V _{CC} = 6.0 V; I _O = 20 µA	-	-	0.1	V
		V _{CC} = 4.5 V; I _O = 4.0 mA	-	-	0.33	V
		V _{CC} = 6.0 V; I _O = 5.2 mA	-	-	0.33	V
I _I	input leakage current	V _{CC} = 6.0 V; V _I = V _{CC} or GND	-	-	±1.0	µA
I _{CC}	supply current	V _{CC} = 6.0 V; V _I = V _{CC} or GND; I _O = 0 A	-	-	80	µA
T_{amb} = -40 °C to +125 °C						
V _{IH}	HIGH-level input voltage	V _{CC} = 2.0 V	1.5	-	-	V
		V _{CC} = 4.5 V	3.15	-	-	V
		V _{CC} = 6.0 V	4.2	-	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 2.0 V	-	-	0.5	V
		V _{CC} = 4.5 V	-	-	1.35	V
		V _{CC} = 6.0 V	-	-	1.8	V
V _{OH}	HIGH-level output voltage	V _I = V _{IH} or V _{IL}				
		V _{CC} = 2.0 V; I _O = -20 µA	1.9	-	-	V
		V _{CC} = 4.5 V; I _O = -20 µA	4.4	-	-	V
		V _{CC} = 6.0 V; I _O = -20 µA	5.9	-	-	V
		V _{CC} = 4.5 V; I _O = -4.0 mA	3.7	-	-	V
		V _{CC} = 6.0 V; I _O = -5.2 mA	5.2	-	-	V
V _{OL}	LOW-level output voltage	V _I = V _{IH} or V _{IL}				
		V _{CC} = 2.0 V; I _O = 20 µA	-	-	0.1	V
		V _{CC} = 4.5 V; I _O = 20 µA	-	-	0.1	V
		V _{CC} = 6.0 V; I _O = 20 µA	-	-	0.1	V
		V _{CC} = 4.5 V; I _O = 4.0 mA	-	-	0.4	V
		V _{CC} = 6.0 V; I _O = 5.2 mA	-	-	0.4	V
I _I	input leakage current	V _{CC} = 6.0 V; V _I = V _{CC} or GND	-	-	±0.1	µA
I _{CC}	supply current	V _{CC} = 6.0 V; V _I = V _{CC} or GND; I _O = 0 A	-	-	160	µA

Table 7. Static characteristics 74HCT154

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

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
T_{amb} = 25 °C						
V _{IH}	HIGH-level input voltage	V _{CC} = 4.5 V to 5.5 V	2.0	1.6	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 4.5 V to 5.5 V	-	1.2	0.8	V
V _{OH}	HIGH-level output voltage	V _I = V _{IH} or V _{IL}				
		V _{CC} = 4.5 V; I _O = -20 µA	4.4	4.5	-	V
		V _{CC} = 4.5 V; I _O = -4 mA	3.98	4.32	-	V
V _{OL}	LOW-level output voltage	V _I = V _{IH} or V _{IL}				
		V _{CC} = 4.5 V; I _O = 20 µA	-	0	0.1	V
		V _{CC} = 4.5 V; I _O = 4 mA	-	0.15	0.25	V
I _I	input leakage current	V _{CC} = 5.5 V; V _I = V _{CC} or GND	-	-	±0.1	µA
I _{CC}	supply current	V _{CC} = 5.5 V; V _I = V _{CC} or GND; I _O = 0 A	-	-	8.0	µA
ΔI _{CC}	additional supply current	per input pin; V _{CC} = 4.5 V to 5.5 V; V _I = V _{CC} - 2.1 V; I _O = 0 A	-	-	360	µA
C _I	input capacitance		-	3.5	-	pF
T_{amb} = -40 °C to +85 °C						
V _{IH}	HIGH-level input voltage	V _{CC} = 4.5 V to 5.5 V	2.0	-	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 4.5 V to 5.5 V	-	-	0.8	V
V _{OH}	HIGH-level output voltage	V _I = V _{IH} or V _{IL}				
		V _{CC} = 4.5 V; I _O = -20 µA	4.4	-	-	V
		V _{CC} = 4.5 V; I _O = -4 mA	3.84	-	-	V
V _{OL}	LOW-level output voltage	V _I = V _{IH} or V _{IL}				
		V _{CC} = 4.5 V; I _O = 20 µA	-	-	0.1	V
		V _{CC} = 4.5 V; I _O = 4 mA	-	-	0.33	V
I _I	input leakage current	V _{CC} = 5.5 V; V _I = V _{CC} or GND	-	-	±1.0	µA
I _{CC}	supply current	V _{CC} = 5.5 V; V _I = V _{CC} or GND; I _O = 0 A	-	-	80	µA
ΔI _{CC}	additional supply current	per input pin; V _{CC} = 4.5 V to 5.5 V; V _I = V _{CC} - 2.1 V; I _O = 0 A	-	-	450	µA
T_{amb} = -40 °C to +125 °C						
V _{IH}	HIGH-level input voltage	V _{CC} = 4.5 V to 5.5 V	2.0	-	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 4.5 V to 5.5 V	-	-	0.8	V
V _{OH}	HIGH-level output voltage	V _I = V _{IH} or V _{IL}				
		V _{CC} = 4.5 V; I _O = -20 µA	4.4	-	-	V
		V _{CC} = 4.5 V; I _O = -4 mA	3.7	-	-	V
V _{OL}	LOW-level output voltage	V _I = V _{IH} or V _{IL}				
		V _{CC} = 4.5 V; I _O = 20 µA	-	-	0.1	V
		V _{CC} = 4.5 V; I _O = 4 mA	-	-	0.4	V
I _I	input leakage current	V _{CC} = 5.5 V; V _I = V _{CC} or GND	-	-	±1.0	µA
I _{CC}	supply current	V _{CC} = 5.5 V; V _I = V _{CC} or GND; I _O = 0 A	-	-	160	µA
ΔI _{CC}	additional supply current	per input pin; V _{CC} = 4.5 V to 5.5 V; V _I = V _{CC} - 2.1 V; I _O = 0 A	-	-	490	µA

10. Dynamic characteristics

Table 8. Dynamic characteristics

GND (ground = 0 V); $C_L = 50$ pF unless otherwise specified; for test circuit, see [Figure 9](#).

Symbol	Parameter	Conditions	25 °C			–40 °C to +125 °C			Unit
			Min	Typ	Max	Min	Max (85 °C)	Max (125 °C)	
74HC154									
t _{pd}	propagation delay	An to $\overline{Yn}$; see Figure 7 [1]							
		V _{CC} = 2.0 V	-	36	150	-	190	225	ns
		V _{CC} = 4.5 V	-	13	30	-	38	45	ns
		V _{CC} = 5 V; C _L = 15 pF	-	11	-	-	-	-	ns
		V _{CC} = 6.0 V	-	10	26	-	33	38	ns
		$\overline{En}$ to $\overline{Yn}$; see Figure 8							
		V _{CC} = 2.0 V	-	39	150	-	190	225	ns
		V _{CC} = 4.5 V	-	14	30	-	38	45	ns
		V _{CC} = 5 V; C _L = 15 pF	-	11	-	-	-	-	ns
		V _{CC} = 6.0 V	-	11	26	-	33	38	ns
t _t	transition time	see Figure 7 and 8 [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 gate; V _I = GND to V _{CC} [3]	-	60	-	-	-	-	pF
74HCT154									
t _{pd}	propagation delay	An to $\overline{Yn}$; see Figure 7 [1]							
		V _{CC} = 4.5 V	-	16	35	-	44	53	ns
		V _{CC} = 5 V; C _L = 15 pF	-	13	-	-	-	-	ns
		$\overline{En}$ to $\overline{Yn}$; see Figure 8							
		V _{CC} = 4.5 V	-	15	32	-	40	48	ns
		V _{CC} = 5 V; C _L = 15 pF	-	13	-	-	-	-	ns
t _t	transition time	see Figure 7 and 8 [2]							
		V _{CC} = 4.5 V	-	7	15	-	19	22	ns
C _{PD}	power dissipation capacitance	per gate; V _I = GND to (V _{CC} – 1.5 V) [3]	-	60	-	-	-	-	pF

[1] t_{pd} is the same as t_{PLH} and t_{PHL} .

[2] t_t is the same as t_{TLH} and t_{THL} .

[3] 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 load switching outputs;

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

11. Waveforms

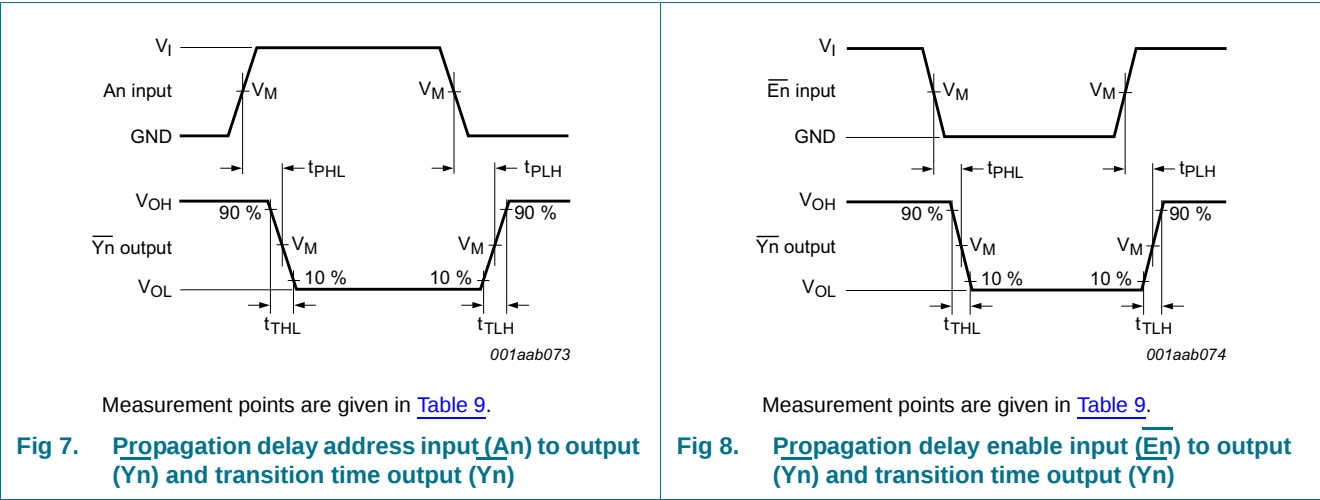


Table 9. Measurement points

Type	Input	Output
	V _M	V _M
74HC154	0.5V _{CC}	0.5V _{CC}
74HCT154	1.3 V	1.3 V

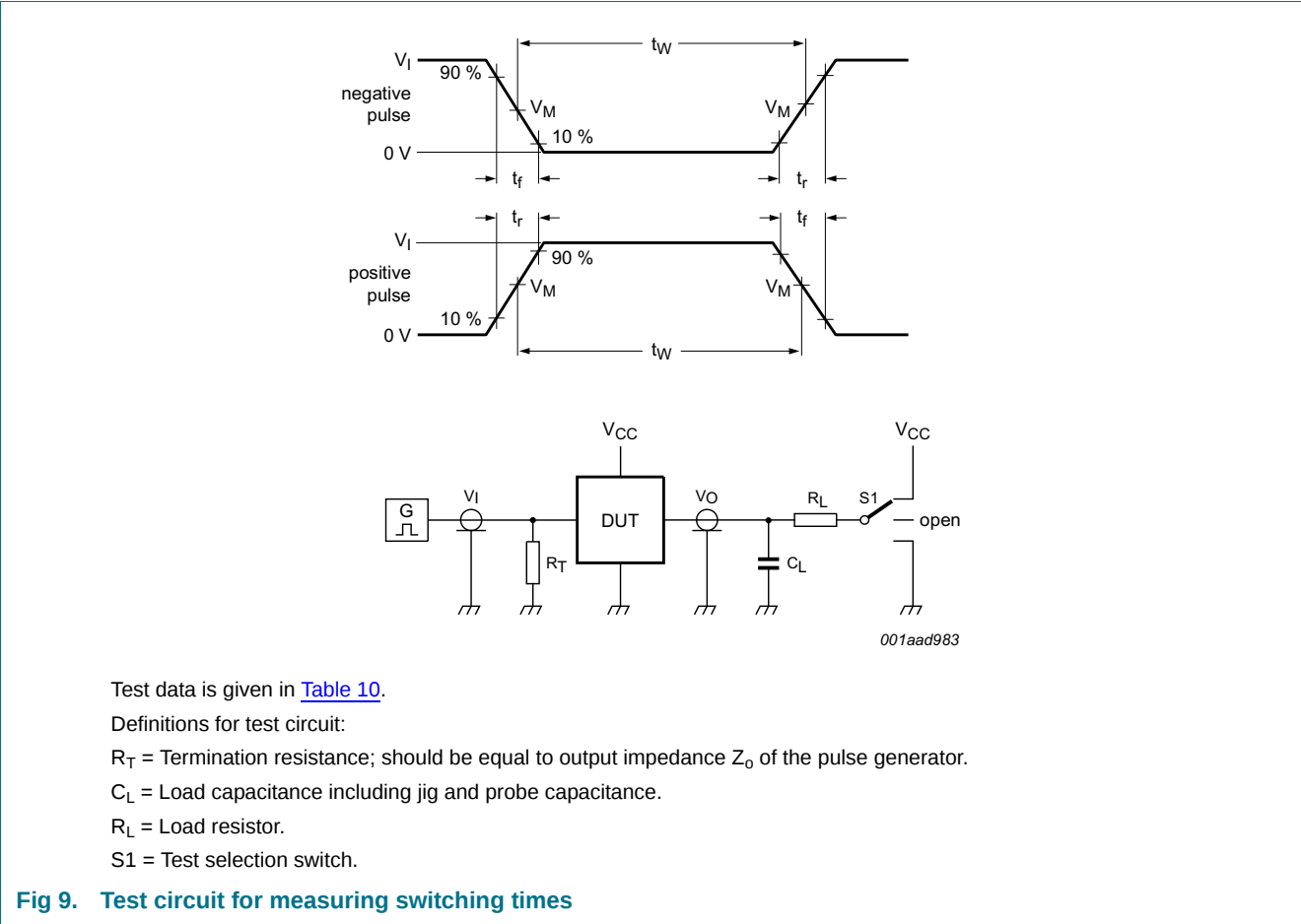


Table 10. Test data

Type	Input		Load		S1 position
	V_I	t_r, t_f	C_L	R_L	
74HC154	V_{CC}	6 ns	15 pF, 50 pF	1 k Ω	open
74HCT154	3 V	6 ns	15 pF, 50 pF	1 k Ω	open

12. Application information

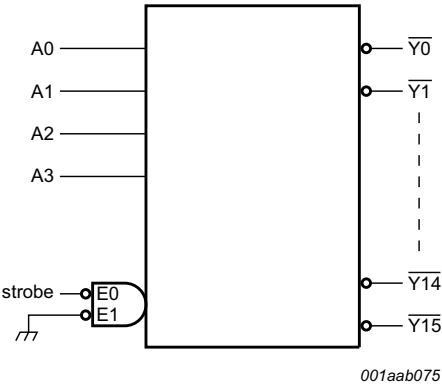


Fig 10. 1-of-16 decoder; LOW level output selected

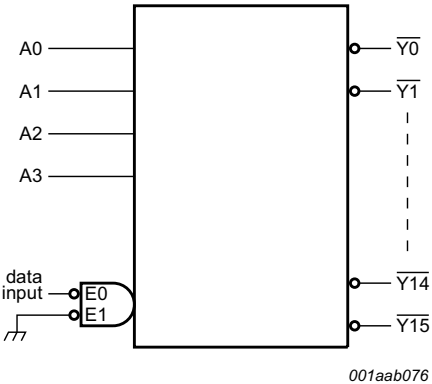


Fig 11. 1-of-16 demultiplexer; logic level on selected outputs follow the logic level on the data input

13. Package outline

SO24: plastic small outline package; 24 leads; body width 7.5 mm

SOT137-1

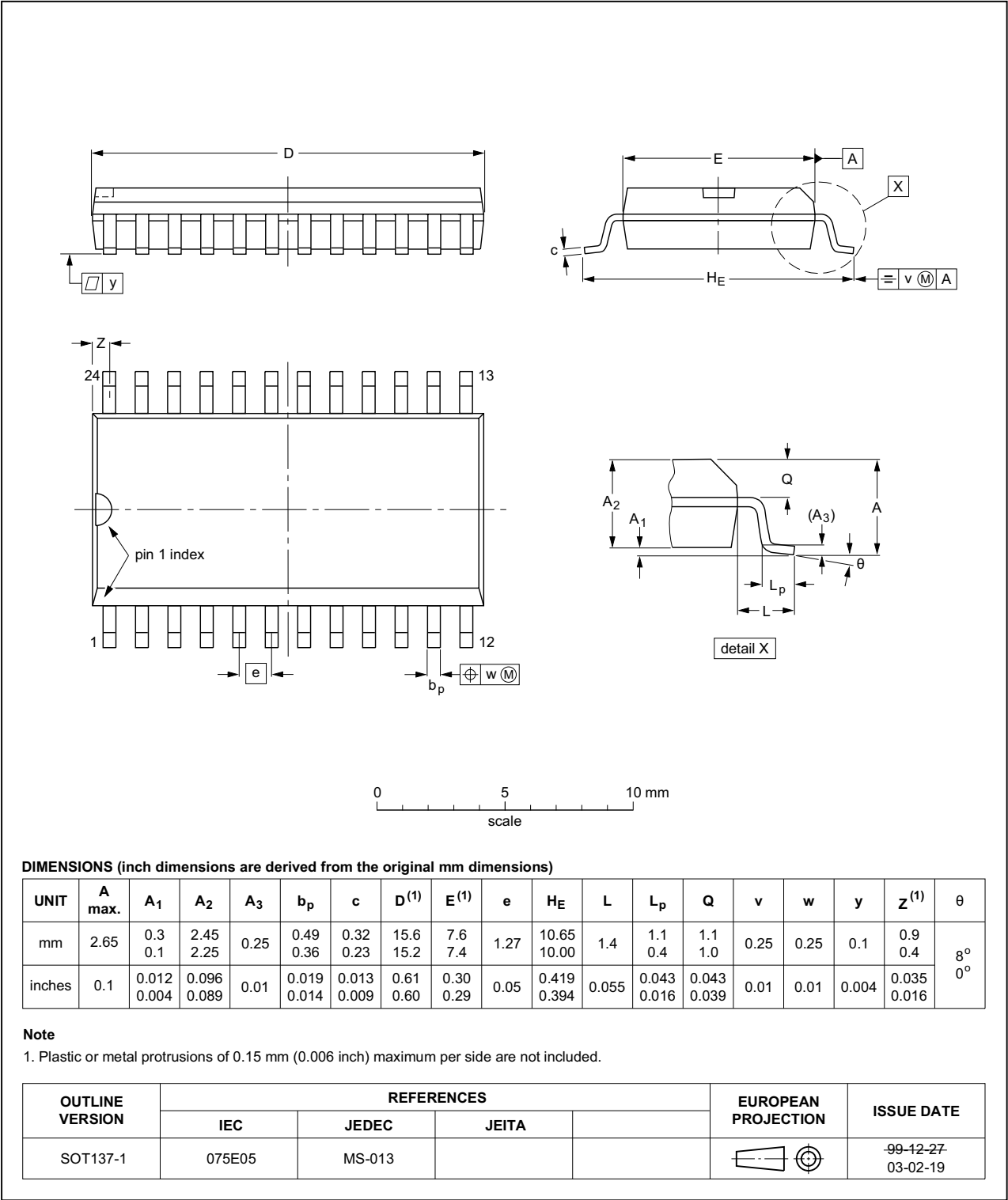
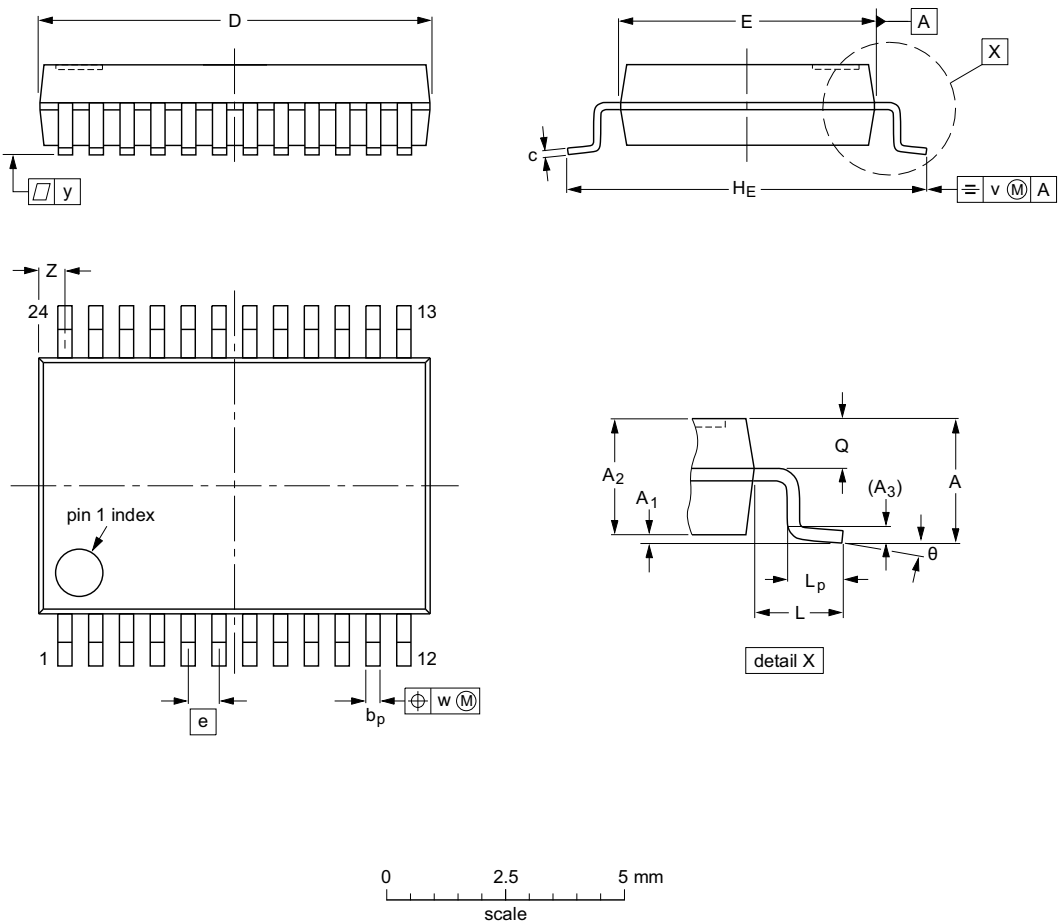


Fig 12. Package outline SOT137-1 (SO24)

SSOP24: plastic shrink small outline package; 24 leads; body width 5.3 mm

SOT340-1



DIMENSIONS (mm are the original dimensions)

UNIT	A max.	A ₁	A ₂	A ₃	b _p	c	D ⁽¹⁾	E ⁽¹⁾	e	H _E	L	L _p	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	8.4 8.0	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	0.8 0.4	8° 0°

Note

1. Plastic or metal protrusions of 0.2 mm maximum per side are not included.

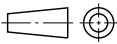
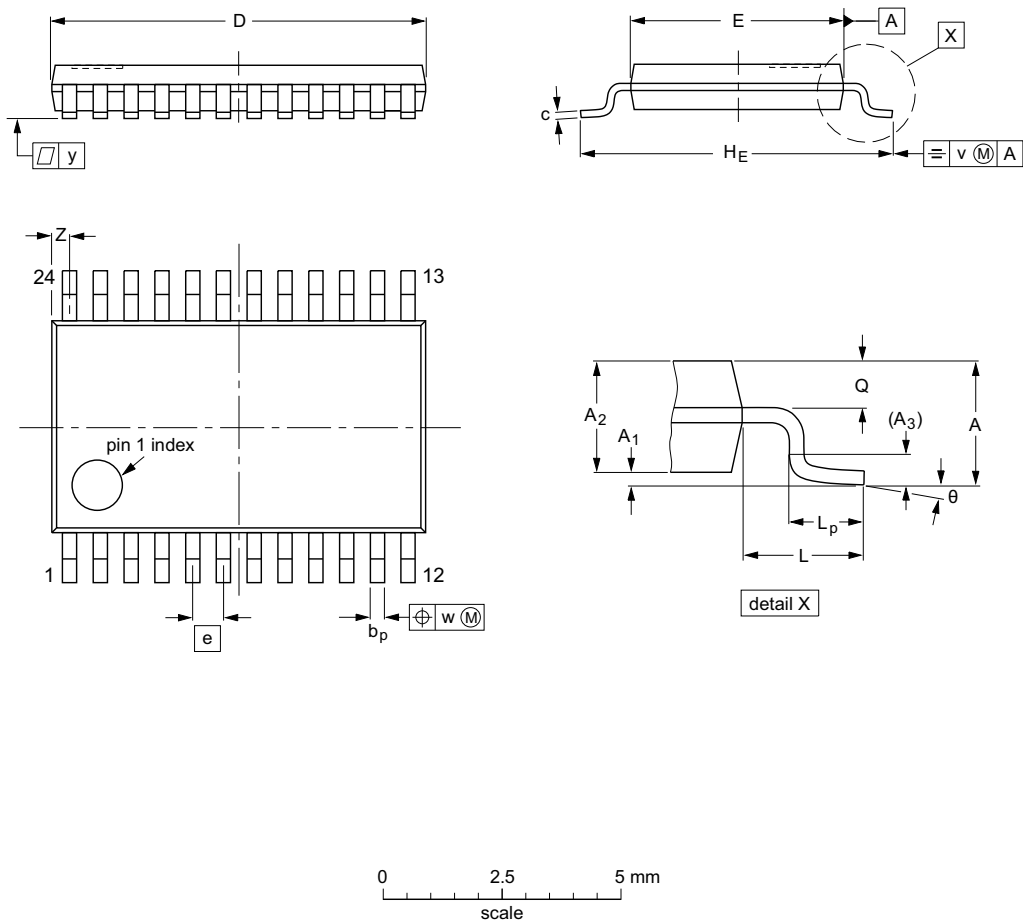
OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	JEITA			
SOT340-1		MO-150				99-12-27- 03-02-19

Fig 13. Package outline SOT340-1 (SSOP24)

TSSOP24: plastic thin shrink small outline package; 24 leads; body width 4.4 mm

SOT355-1



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	7.9 7.7	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	0.5 0.2	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			
SOT355-1		MO-153				-99-12-27- 03-02-19

Fig 14. Package outline SOT355-1 (TSSOP24)

DHVQFN24: plastic dual in-line compatible thermal enhanced very thin quad flat package;
no leads; 24 terminals; body 3.5 x 5.5 x 0.85 mm

SOT815-1

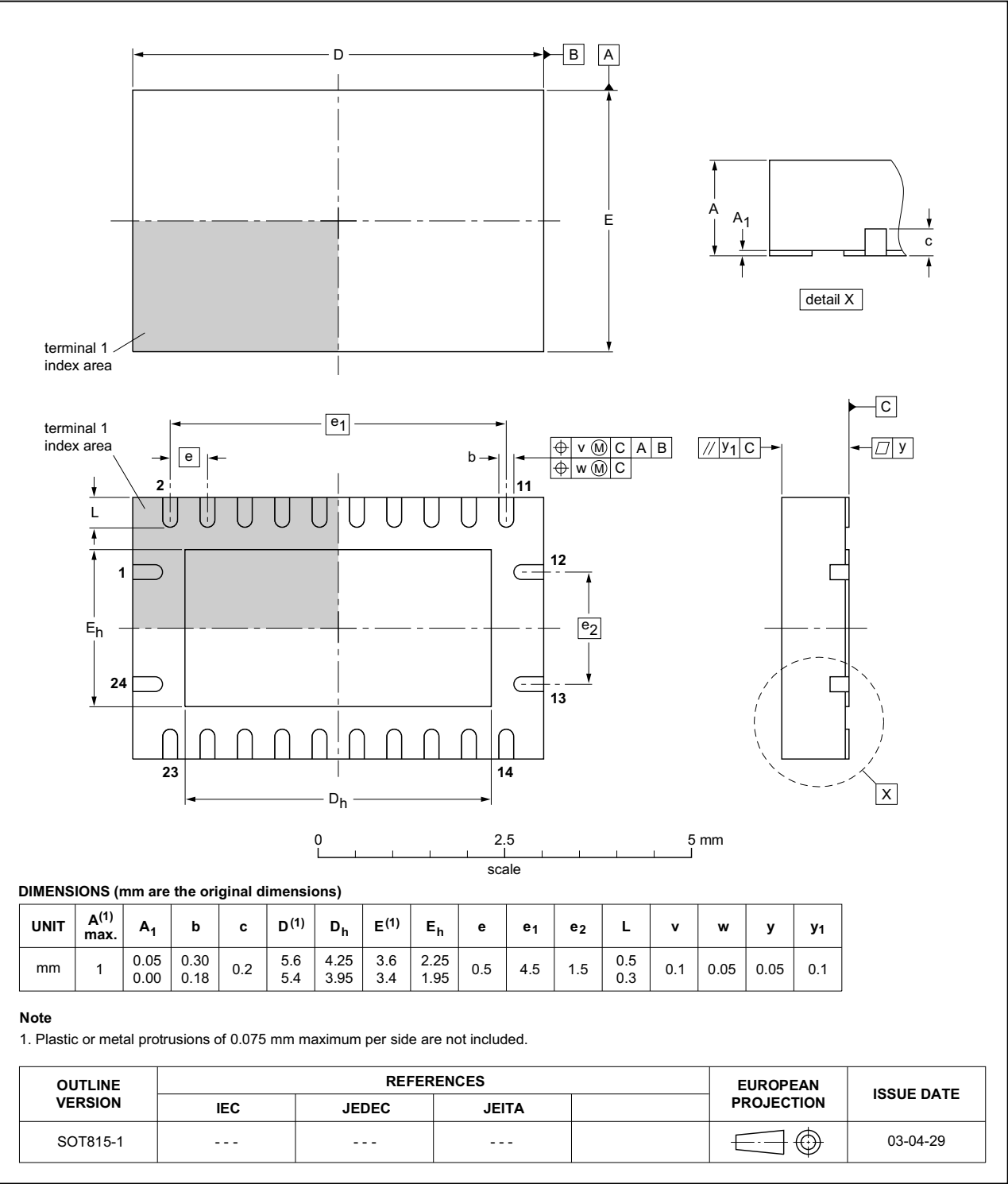


Fig 15. Package outline SOT815-1 (DHVQFN24)

14. Abbreviations

Table 11. Abbreviations

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

15. Revision history

Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74HC_HCT154 v.7	20160229	Product data sheet	-	74HC_HCT154 v.6
Modifications:	Type numbers 74HC154N and 74HCT154N (SOT101-1) removed.			
74HC_HCT154 v.6	20070212	Product data sheet	-	74HC_HCT154 v.5
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. Table 3 on page 4: Corrected errors in output information.			
74HC_HCT154 v.5	20041012	Product specification	-	74HC_HCT154 v.4
74HC_HCT154 v.4	20041005	Product specification	-	74HC_HCT154 v.3
74HC_HCT154 v.3	20040601	Product specification	-	74HC_HCT154_CNV v.2

16. Legal information

16.1 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.nxp.com>.

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