74HC137

3-to-8 line decoder, demultiplexer with address latches; inverting

Product data sheet

1. General description

The 74HC137 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 a latch enable ($\overline{LE}$) and two output enable ($\overline{E}1$, E2) inputs. A LOW on $\overline{LE}$ causes the device to act as an active LOW decoder. A LOW-to HIGH transition on $\overline{LE}$ stores the data that was present before the transition in the latches. Further address changes are ignored as long as $\overline{LE}$ remains HIGH.

The output enable inputs control the state of the outputs independently of the address inputs or latch operation. All outputs will be HIGH unless $\overline{E}1$ is LOW and E2 is HIGH.

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

- Combines 3-to-8 decoder with 3-bit latch
- Multiple input enable for easy expansion or independent controls
- Active LOW mutually exclusive outputs
- Wide supply voltage range from 2.0 to 6.0 V
- CMOS low power dissipation
- High noise immunity
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level B
- Complies with JEDEC standards
  - JESD8C (2.7 V to 3.6 V)
  - JESD7A (2.0 V to 6.0 V)
- ESD protection:
  - HBM JESD22-A114F exceeds 2000 V
  - MM JESD22-A115-A exceeds 200 V
- Specified from -40 °C to +80 °C and from -40 °C to +125 °C.

3. Ordering information

Table 1. Ordering information

Type number	Package			
	Temperature range	Name	Description	Version
74HC137D	-40 °C to +125 °C	SO16	plastic small outline package; 16 leads; body width 3.9 mm	SOT109-1
74HC137DB	-40 °C to +125 °C	SSOP16	plastic shrink small outline package; 16 leads; body width 5.3 mm	SOT338-1
74HC137PW	-40 °C to +125 °C	TSSOP16	plastic thin shrink small outline package; 16 leads; body width 4.4 mm	SOT403-1

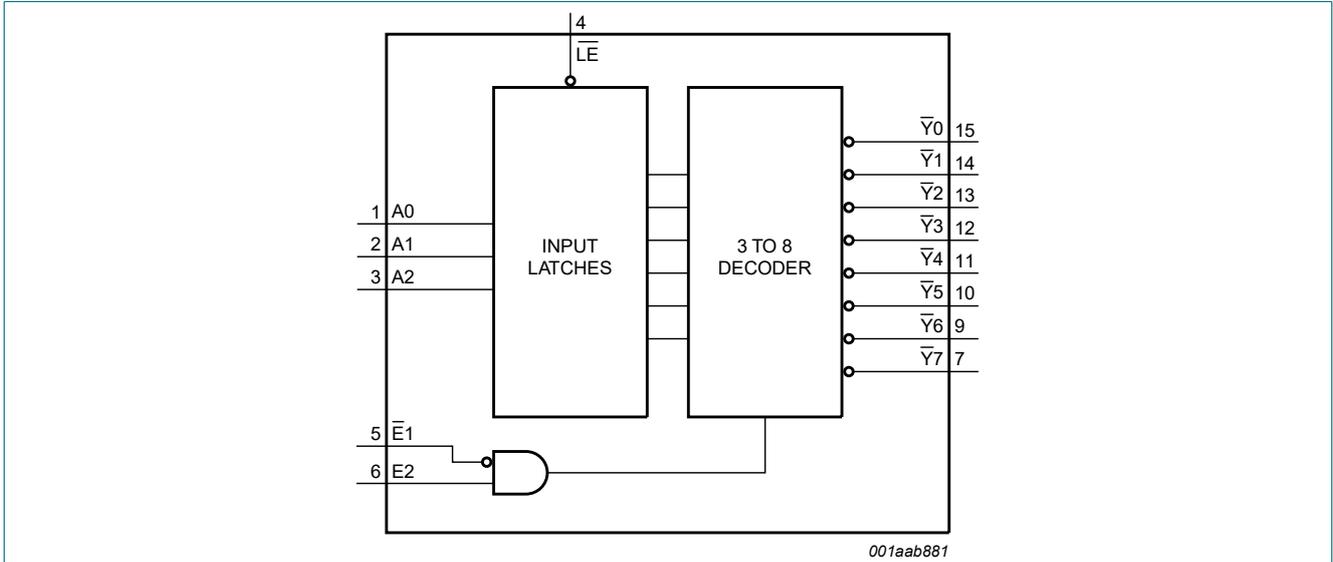nexperia
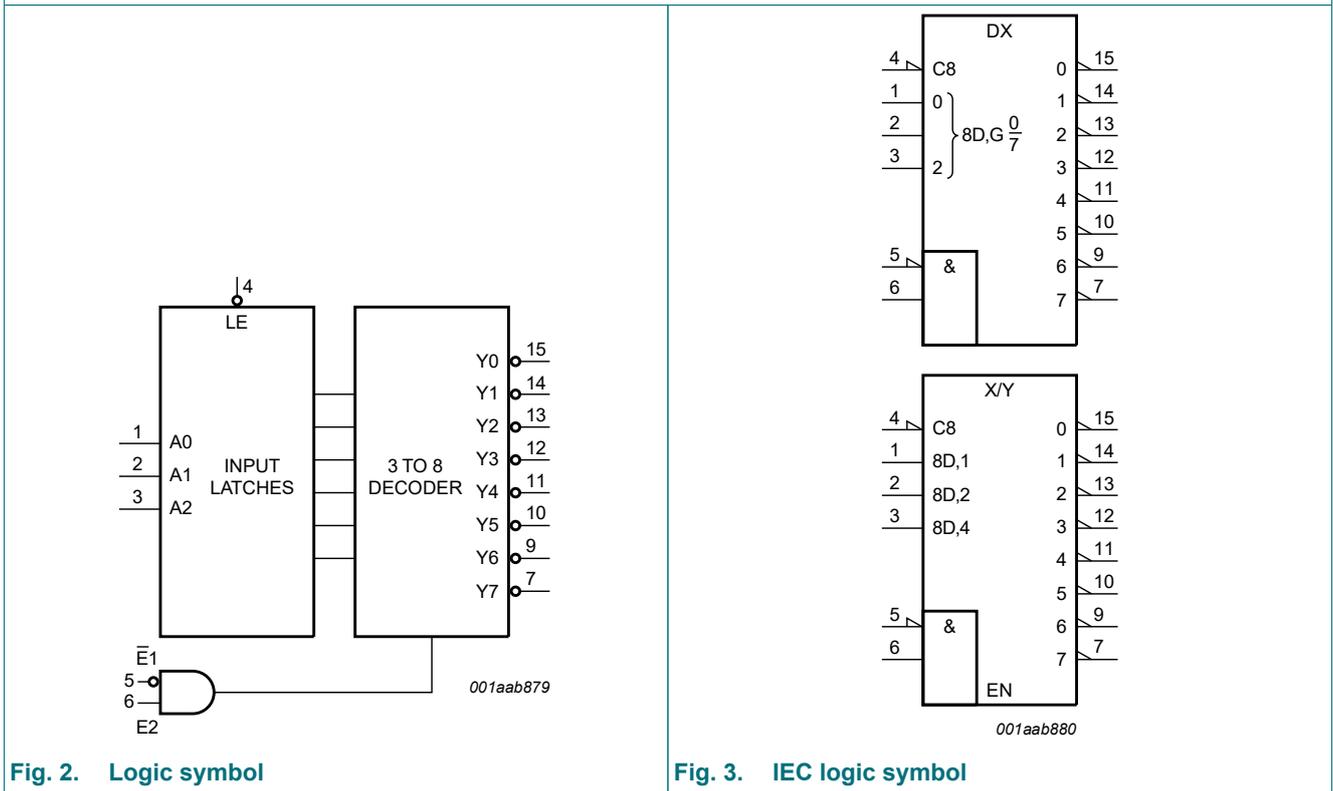
4. Functional diagram

Fig. 1. Functional diagram

Fig. 2. Logic symbol

Fig. 3. IEC logic symbol

74HC137

Product data sheet **Rev. 5 — 4 August 2021** 2 / 16
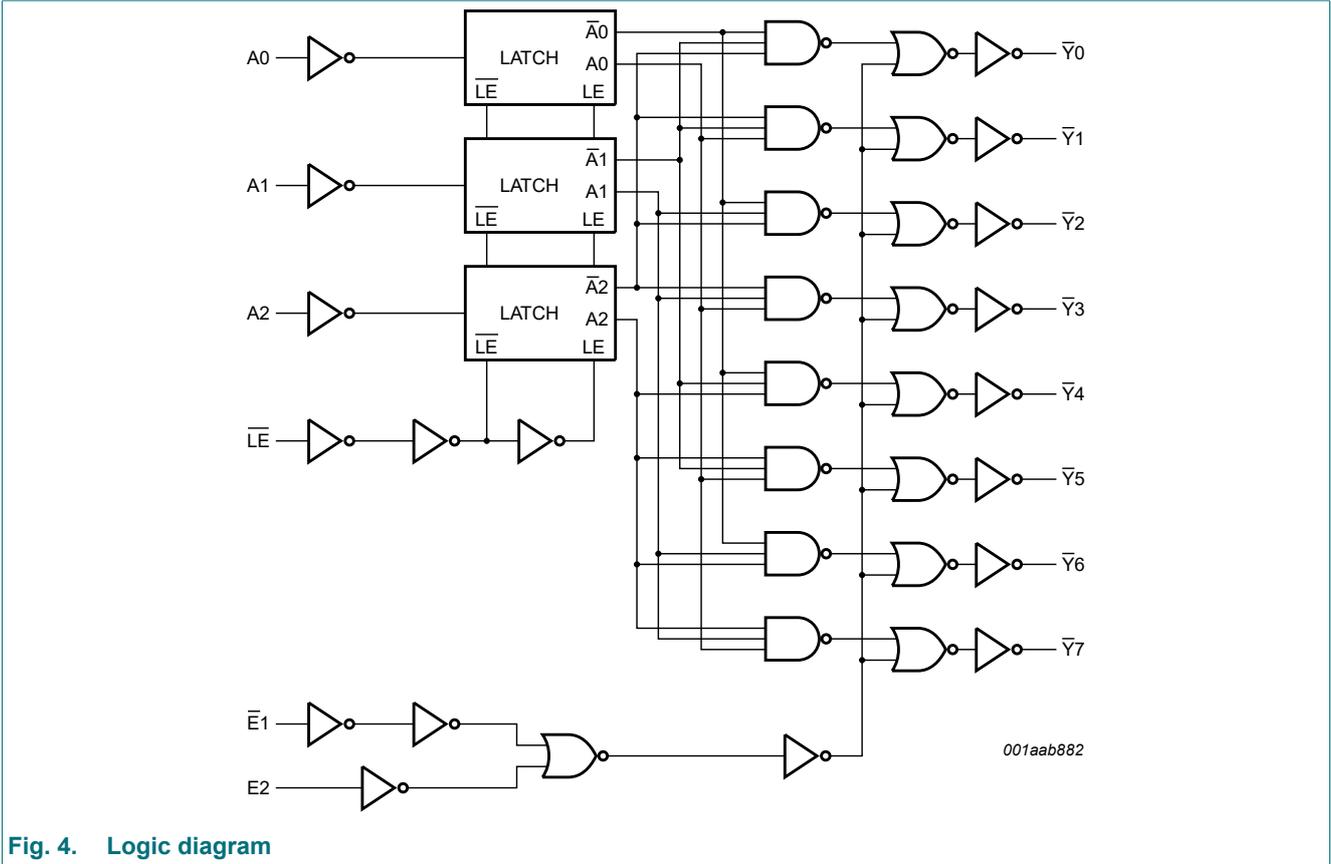
Fig. 4.   Logic diagram

5. Pinning information

5.1. Pinning
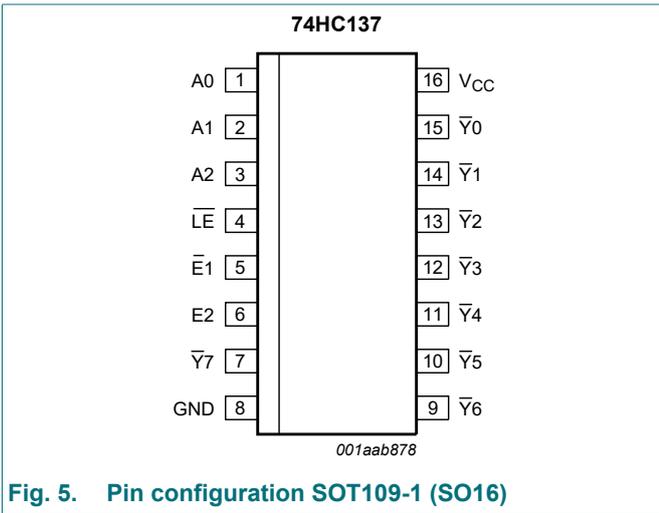
Fig. 5.   Pin configuration SOT109-1 (SO16)
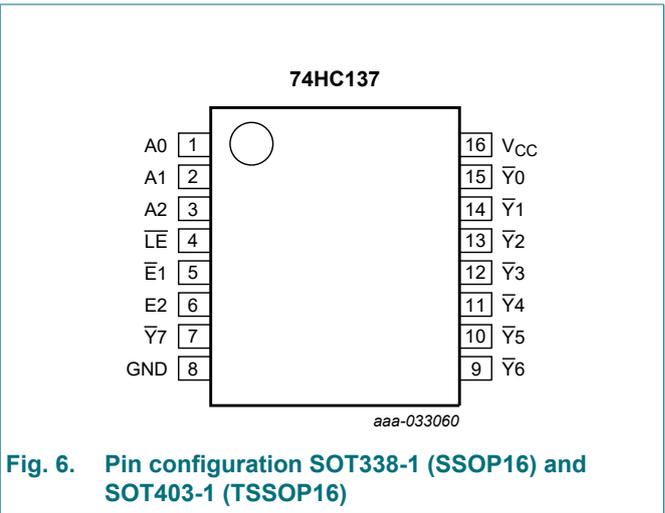
Fig. 6.   Pin configuration SOT338-1 (SSOP16) and SOT403-1 (TSSOP16)

74HC137

Product data sheet   **Rev. 5 — 4 August 2021**   3 / 16

5.2. Pin description

Table 2. Pin description

Symbol	Pin	Description
A0	1	data input 0
A1	2	data input 1
A2	3	data input 2
$\overline{LE}$	4	latch enable input (active LOW)
$\overline{E}1$	5	data enable input 1 (active LOW)
E2	6	data enable input 2 (active HIGH)
$\overline{Y}7$	7	multiplexer output 7
GND	8	ground (0 V)
$\overline{Y}6$	9	multiplexer output 6
$\overline{Y}5$	10	multiplexer output 5
$\overline{Y}4$	11	multiplexer output 4
$\overline{Y}3$	12	multiplexer output 3
$\overline{Y}2$	13	multiplexer output 2
$\overline{Y}1$	14	multiplexer output 1
$\overline{Y}0$	15	multiplexer output 0
V_{CC}	16	positive supply voltage

6. Function table

Table 3. Function table

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

Enable			Input			Output							
$\overline{LE}$	$\overline{E}1$	E2	A0	A1	A2	$\overline{Y}0$	$\overline{Y}1$	$\overline{Y}2$	$\overline{Y}3$	$\overline{Y}4$	$\overline{Y}5$	$\overline{Y}6$	$\overline{Y}7$
H	L	H	X	X	X	stable							
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
			H	L	L	H	L	H	H	H	H	H	H
			L	H	L	H	H	L	H	H	H	H	H
			H	H	L	H	H	H	L	H	H	H	H
			L	L	H	H	H	H	H	L	H	H	H
			H	L	H	H	H	H	H	H	L	H	H
			L	H	H	H	H	H	H	H	H	L	H
			H	H	H	H	H	H	H	H	H	H	L

74HC137

Product data sheet   **Rev. 5 — 4 August 2021**   **4 / 16**

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 diode current	V_I < -0.5 V or V_I > V_{CC} + 0.5 V	-	±20	mA
I_{OK}	output diode current	V_O < -0.5 V or V_O > V_{CC} + 0.5 V	-	±20	mA
I_O	output source or sink 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}	power dissipation	SO16 and SSOP16 packages [1]	-	500	mW

[1]   For SOT109-1 (SO16) package: P_{tot} derates linearly with 12.4 mW/K above 110 °C.
    For SOT338-1 (SSOP16) package: P_{tot} derates linearly with 8.5 mW/K above 91 °C.
    For SOT403-1 (TSSOP16) package: P_{tot} derates linearly with 8.5 mW/K above 91 °C.

8. Recommended operating conditions

Table 5. Recommended operating conditions

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

74HC137

Product data sheet

Rev. 5 — 4 August 2021

5 / 16

9. Static characteristics

Table 6. Static characteristics

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

Symbol	Parameter	Conditions	T_{amb} = 25 °C			T_{amb} = -40 °C to +85 °C		T_{amb} = -40 °C to +125 °C		Unit
			Min	Typ	Max	Min	Max	Min	Max	
V_{IH}	HIGH-level input voltage	V_{CC} = 2.0 V	1.5	1.2	-	1.5	-	1.5	-	V
		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 input voltage	V_{CC} = 2.0 V	-	0.8	0.5	-	0.5	-	0.5	V
		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 output voltage	V_I = V_{IH} or V_{IL}								
		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 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 output voltage	V_I = V_{IH} or V_{IL}								
		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 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_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
C_I	input capacitance		-	3.5	-	-	-	-	-	pF

10. Dynamic characteristics

Table 7. Dynamic characteristics

GND = 0 V; t_r = t_f = 6 ns; C_L = 50 pF; For test circuit see Fig. 10

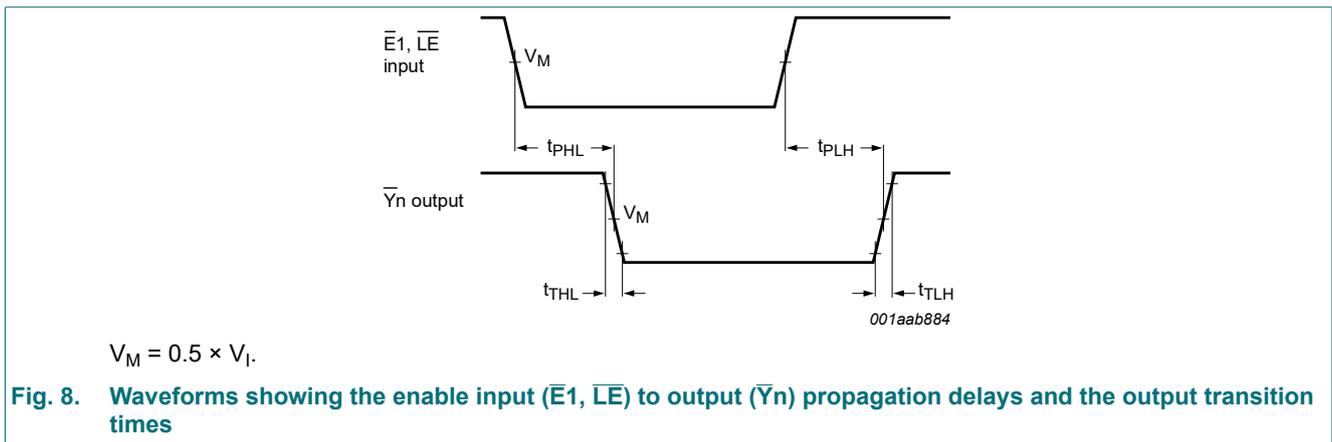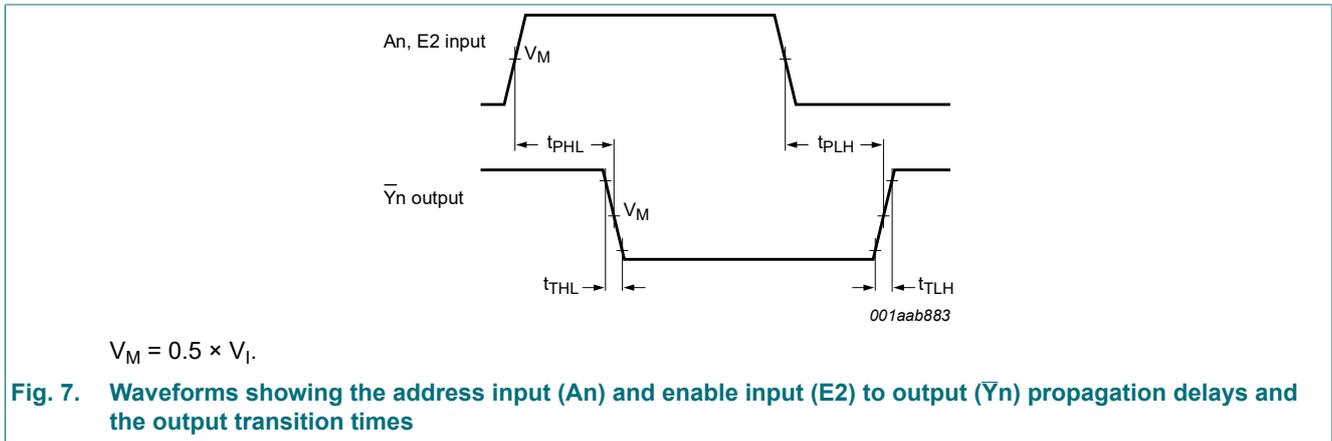| Symbol	Parameter	Conditions		T_{amb} = 25 °C			T_{amb} = -40 °C to +85 °C		T_{amb} = -40 °C to +125 °C		Unit
				Min	Typ	Max	Min	Max	Min	Max	
t_{pd}	propagation delay	An to $\overline{Y}$n; see Fig. 7	[1]								
		V_{CC} = 2.0 V		-	58	180	-	225	-	270	ns
		V_{CC} = 4.5 V		-	21	36	-	45	-	54	ns
		V_{CC} = 6.0 V		-	17	31	-	38	-	46	ns
		V_{CC} = 5.0 V; C_L = 15 pF		-	18	-	-	-	-	-	ns
		$\overline{LE}$ to $\overline{Y}$n; see Fig. 8									
		V_{CC} = 2.0 V		-	55	190	-	240	-	285	ns
		V_{CC} = 4.5 V		-	20	38	-	48	-	57	ns
		V_{CC} = 6.0 V		-	16	32	-	41	-	48	ns
		V_{CC} = 5.0 V; C_L = 15 pF		-	17	-	-	-	-	-	ns
		$\overline{E}$1 to $\overline{Y}$n; see Fig. 8									
		V_{CC} = 2.0 V		-	50	145	-	180	-	220	ns
		V_{CC} = 4.5 V		-	18	29	-	36	-	44	ns
		V_{CC} = 6.0 V		-	14	25	-	31	-	38	ns
		V_{CC} = 5.0 V; C_L = 15 pF		-	15	-	-	-	-	-	ns
		E2 to $\overline{Y}$n; see Fig. 7									
		V_{CC} = 2.0 V		-	50	145	-	180	-	220	ns
		V_{CC} = 4.5 V		-	18	29	-	36	-	44	ns
		V_{CC} = 6.0 V		-	14	25	-	31	-	38	ns
		V_{CC} = 5.0 V; C_L = 15 pF		-	15	-	-	-	-	-	ns
t_t	transition time	see Fig. 7	[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
t_W	pulse width	$\overline{LE}$ HIGH; see Fig. 9									
		V_{CC} = 2.0 V		50	11	-	65	-	75	-	ns
		V_{CC} = 4.5 V		10	4	-	13	-	15	-	ns
		V_{CC} = 6.0 V		9	3	-	11	-	13	-	ns
t_{su}	set-up time	An to $\overline{LE}$; see Fig. 9									
		V_{CC} = 2.0 V		50	3	-	65	-	75	-	ns
		V_{CC} = 4.5 V		10	1	-	13	-	15	-	ns
		V_{CC} = 6.0 V		9	1	-	11	-	13	-	ns
t_h	hold time	An to $\overline{LE}$; see Fig. 9									
		V_{CC} = 2.0 V		30	3	-	40	-	45	-	ns
		V_{CC} = 4.5 V		6	1	-	8	-	9	-	ns
		V_{CC} = 6.0 V		5	1	-	7	-	8	-	ns

74HC137

Product data sheet

Rev. 5 — 4 August 2021

7 / 16

Symbol	Parameter	Conditions		T_{amb} = 25 °C			T_{amb} = -40 °C to +85 °C		T_{amb} = -40 °C to +125 °C		Unit
				Min	Typ	Max	Min	Max	Min	Max	
C_{PD}	power dissipation capacitance	V_I = GND to V_{CC}	[3]	-	57	-	-	-	-	-	pF

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

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

[3] C_{PD} is used to determine the dynamic power dissipation (P_D in μW).

$P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \sum(C_L \times V_{CC}^2 \times f_o)$ 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;

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

10.1. Waveforms and test circuit

$V_M = 0.5 \times V_I$.

Fig. 7. **Waveforms showing the address input (An) and enable input (E2) to output ($\overline{Y}$n) propagation delays and the output transition times**

$V_M = 0.5 \times V_I$.

Fig. 8. **Waveforms showing the enable input ($\overline{E}$1, $\overline{LE}$) to output ($\overline{Y}$n) propagation delays and the output transition times**
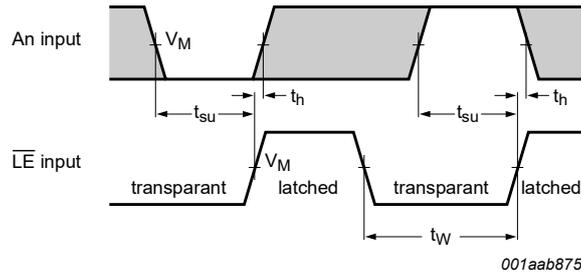
The shaded areas indicate when the input is permitted to change for predictable output performance.

$V_M = 0.5 \times V_I$.

Fig. 9. **Waveforms showing the data set-up, hold times for An input to $\overline{\text{LE}}$ input and the latch enable pulse width**
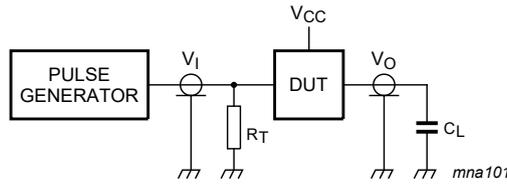
Test data is given in Table 8.

Definitions for test circuit:

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

C_L = Load capacitance including jig and probe capacitance.

Fig. 10. **Test circuit for measuring switching times**

Table 8. Test data

Supply	Input		Load
V_{CC}	V_I	t_r, t_f	C_L
2.0 V	V_{CC}	6 ns	50 pF
4.5 V	V_{CC}	6 ns	50 pF
6.0 V	V_{CC}	6 ns	50 pF
5.0 V	V_{CC}	6 ns	15 pF

11. Application information
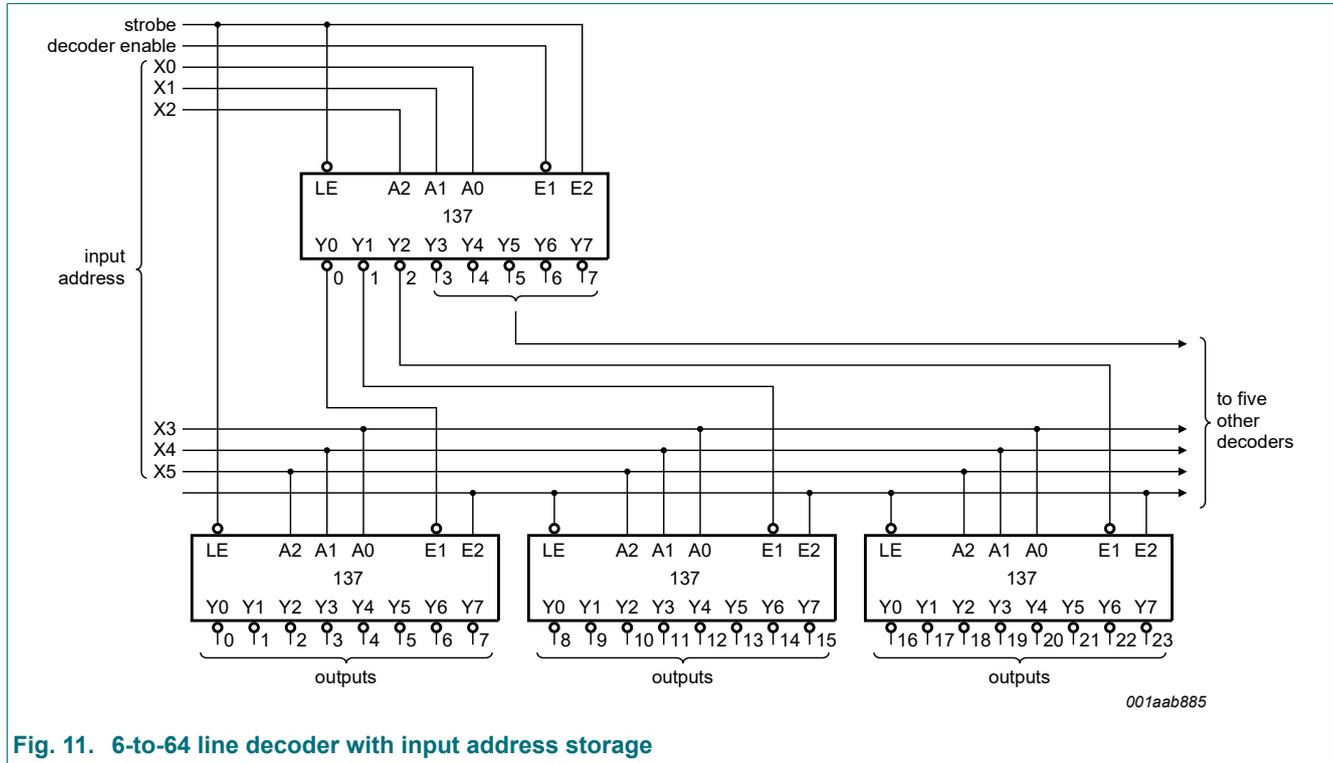
Fig. 11. 6-to-64 line decoder with input address storage

74HC137

Product data sheet

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Rev. 5 — 4 August 2021

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10 / 16

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	Hₑ	L	Lₚ	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

Fig. 12. Package outline SOT109-1 (SO16)

74HC137

Product data sheet **Rev. 5 — 4 August 2021** 11 / 16

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	HₑE	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
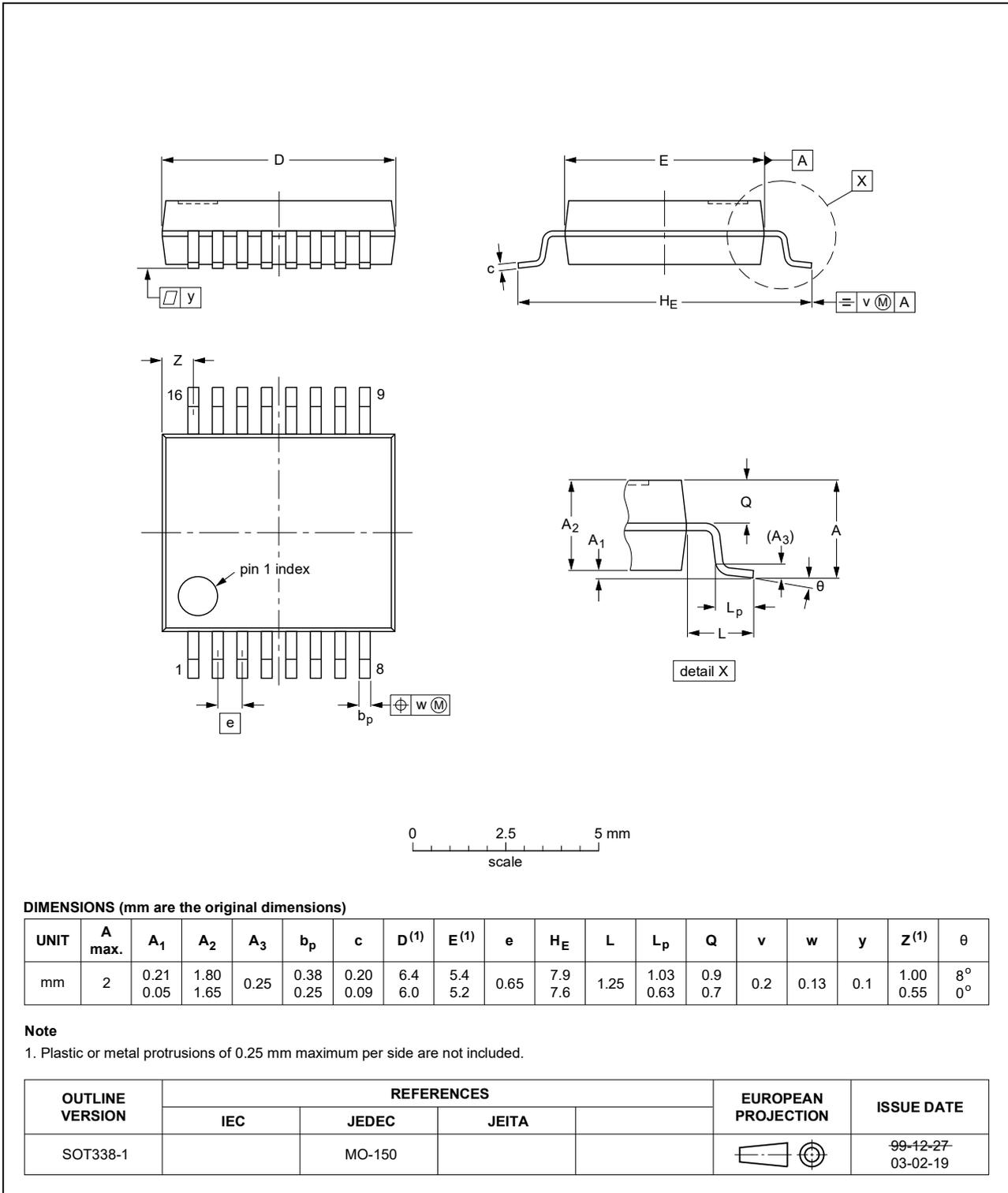
Fig. 13. Package outline SOT338-1 (SSOP16)

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

Fig. 14. Package outline SOT403-1 (TSSOP16)

74HC137

Product data sheet **Rev. 5 — 4 August 2021** 13 / 16

13. Abbreviations

Table 9. Abbreviations

Acronym	Abbreviation
CMOS	Complementary Metal Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
HBM	Human Body Model
MM	Machine Model

14. Revision history

Table 10. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74HC137 v.5	20210804	Product data sheet	-	74HC137 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. • Type number 74HC137PW (SOT403-1/TSSOP16) added. • Section 1 and Section 2 updated. • Section 7: Derating values for P_{tot} total power dissipation updated.			
74HC137 v.4	20151223	Product data sheet	-	74HC137 v.3
Modifications:	• Type number 74HC137N (SOT38-4) removed.			
74HC137 v.3	20041111	Product data sheet	-	74HC_HCT137_CNV v.2
Modifications:	• The format of this data sheet has been redesigned to comply with the current presentation and information standard of Philips Semiconductors. • Removed type number 74HCT137. • Inserted family specification.			
74HC_HCT137_CNV v.2	19970827	Product specification	-	74HC_HCT137 v.1
74HC_HCT137 v.1	19901201	Product specification	-	-

15. 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.

[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 https://www.nexperia.com.

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Product data sheet

Rev. 5 — 4 August 2021

15 / 16

Contents