## 1. General description

The 74HC237 is a 3-to-8 line decoder, demultiplexer with latches at the three address inputs (An). The 74HC237 essentially combines the 3-to-8 decoder function with a 3-bit storage latch. When the latch is enabled ( $\overline{\text{LE}}$  = LOW), the 74HC237 acts as a 3-to-8 active LOW decoder. When the latch enable ( $\overline{\text{LE}}$ ) goes from LOW-to-HIGH, the last data present at the inputs before this transition, is stored in the latches. Further address changes are ignored as long as  $\overline{\text{LE}}$  remains HIGH. The output enable input ( $\overline{\text{E}}$ 1 and  $\overline{\text{E}}$ 2) controls the state of the outputs independent of the address inputs or latch operation. All outputs are HIGH unless  $\overline{\text{E}}$ 1 is LOW and  $\overline{\text{E}}$ 2 is HIGH. The 74HC237 is ideally suited for implementing non-overlapping decoders in 3-state systems and strobes (stored address) applications in bus-oriented systems.

## 2. Features and benefits

- · Combines 3-to-8 decoder with 3-bit latch
- · Multiple input enable for easy expansion or independent controls
- · Active HIGH mutually exclusive outputs
- Wide supply voltage range from 2.0 V 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: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
  - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C

# 3. Ordering information

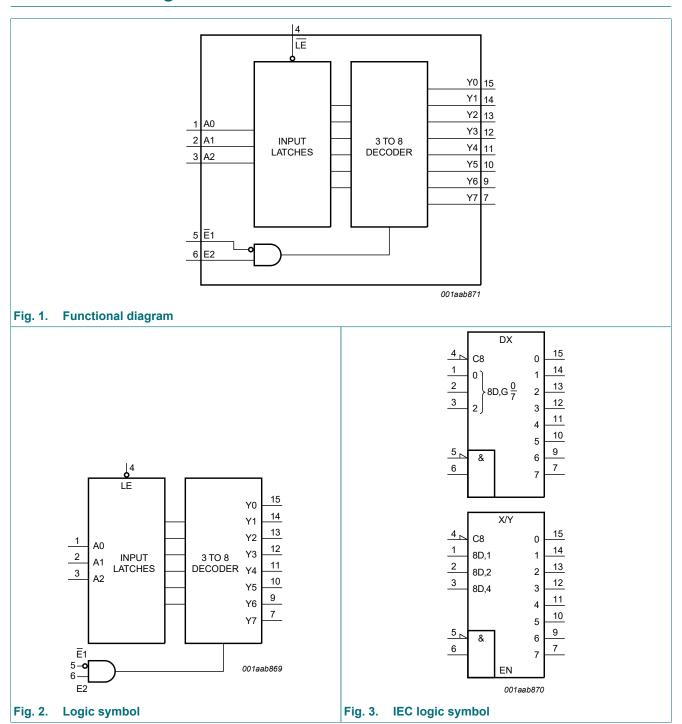
#### **Table 1. Ordering information**

| Type number | Package           | ackage  |  |          |  |  |  |  |  |
|-------------|-------------------|---------|--|----------|--|--|--|--|--|
|             | Temperature range | Name    | Description  | Version  |  |  |  |  |  |
| 74HC237D    | -40 °C to +125 °C | SO16    | plastic small outline package; 16 leads; body width 3.9 mm             | SOT109-1 |  |  |  |  |  |
| 74HC237PW   | -40 °C to +125 °C | TSSOP16 | plastic thin shrink small outline package; 16 leads; body width 4.4 mm | SOT403-1 |  |  |  |  |  |

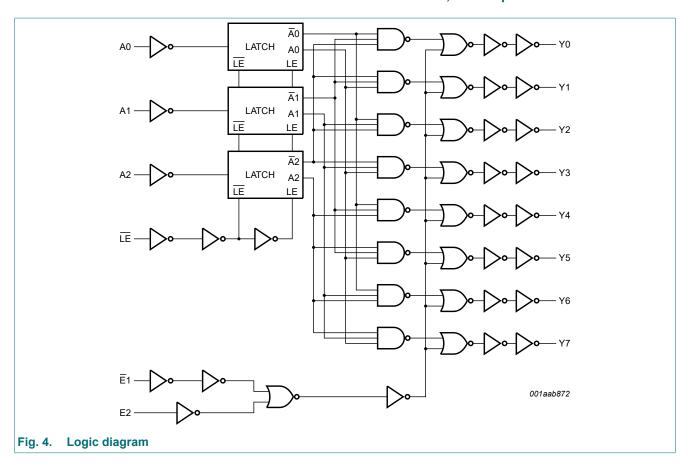


### 3-to-8 line decoder, demultiplexer with address latches

# 4. Functional diagram

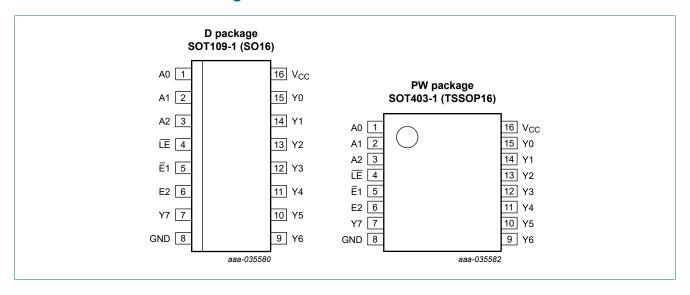


### 3-to-8 line decoder, demultiplexer with address latches



# 5. Pinning information

## 5.1. Pinning



#### 3-to-8 line decoder, demultiplexer with address latches

## 5.2. Pin description

Table 2. Pin description

| Symbol                         | Pin                          | Description                       |
|--------------------------------|------------------------------|-----------------------------------|
| A0, A1, A2                     | 1, 2, 3                      | data input                        |
| LE                             | 4                            | latch enable input (active LOW)   |
| Ē1                             | 5                            | data enable input 1 (active LOW)  |
| E2                             | 6                            | data enable input 2 (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 <sub>CC</sub>                | 16                           | supply voltage                    |

# 6. Functional description

#### Table 3. Function table

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

| Enable Input |    |    | Input |            |    | Output |    |    |    |    |    |    |    |
|--------------|----|----|-------|------------|----|--------|----|----|----|----|----|----|----|
| LE           | Ē1 | E2 | A0    | <b>A</b> 1 | A2 | Y0     | Y1 | Y2 | Y3 | Y4 | Y5 | Y6 | Y7 |
| Н            | L  | Н  | Х     | Х          | Х  | stable |    |    |    |    |    |    |    |
| Χ            | Н  | Х  | Х     | Х          | Х  | L      | L  | L  | L  | L  | L  | L  | L  |
| Χ            | X  | 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 <sub>IK</sub>  | input clamping current  | $V_{I} < -0.5 \text{ V or } V_{I} > V_{CC} + 0.5 \text{ V}$ | -    | ±20  | mA   |
| I <sub>OK</sub>  | output clamping current | $V_{O} < -0.5 \text{ V or } V_{O} > V_{CC} + 0.5 \text{ V}$ | -    | ±20  | mA   |
| Io               | output current          | $V_O = -0.5 \text{ V to } (V_{CC} + 0.5 \text{ V})$         | -    | ±25  | mA   |
| I <sub>CC</sub>  | supply current          |   | -    | +50  | mA   |
| $I_{GND}$        | ground current          |   | -    | -50  | mA   |
| T <sub>stg</sub> | storage temperature     |   | -65  | +150 | °C   |
| P <sub>tot</sub> | total power dissipation | [1  | ] -  | 500  | mW   |

<sup>[1]</sup> 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.

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

# 8. Recommended operating conditions

#### Table 5. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V)

| Symbol           | Parameter                           | Conditions              | Min | Тур  | Max             | Unit |
|------------------|-------------------------------------|-------------------------|-----|------|-----------------|------|
| V <sub>CC</sub>  | supply voltage                      |                         | 2.0 | 5.0  | 6.0             | V    |
| VI               | input voltage                       |                         | 0   | -    | V <sub>CC</sub> | V    |
| Vo               | output voltage                      |                         | 0   | -    | V <sub>CC</sub> | V    |
| T <sub>amb</sub> | ambient temperature                 |                         | -40 | +25  | +125            | °C   |
| Δt/ΔV            | input transition rise and fall rate | V <sub>CC</sub> = 2.0 V | -   | -    | 625             | ns/V |
|                  |                                     | V <sub>CC</sub> = 4.5 V | -   | 1.67 | 139             | ns/V |
|                  |                                     | V <sub>CC</sub> = 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 |      | -40 °C to | o +85 °C | -40 °C to +125 °C |      | Unit |
|-----------------|--------------------------|---|------|-------|------|-----------|----------|-------------------|------|------|
|                 |                          |   | Min  | Тур   | Max  | Min       | Max      | Min               | Max  |      |
| V <sub>IH</sub> | HIGH-level               | V <sub>CC</sub> = 2.0 V   | 1.5  | 1.2   | -    | 1.5       | -        | 1.5               | -    | V    |
|                 | input voltage            | V <sub>CC</sub> = 4.5 V   | 3.15 | 2.4   | -    | 3.15      | -        | 3.15              | -    | V    |
|                 |                          | V <sub>CC</sub> = 6.0 V   | 4.2  | 3.2   | -    | 4.2       | -        | 4.2               | -    | V    |
| V <sub>IL</sub> | LOW-level input          | V <sub>CC</sub> = 2.0 V   | -    | 0.8   | 0.5  | -         | 0.5      | -                 | 0.5  | V    |
|                 | voltage                  | V <sub>CC</sub> = 4.5 V   | -    | 2.1   | 1.35 | -         | 1.35     | -                 | 1.35 | V    |
|                 |                          | V <sub>CC</sub> = 6.0 V   | -    | 2.8   | 1.8  | -         | 1.8      | -                 | 1.8  | V    |
| V <sub>OH</sub> | HIGH-level               | V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>             |      |       |      |           |          |                   |      |      |
|                 | output voltage           | I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 2.0 V                | 1.9  | 2.0   | -    | 1.9       | -        | 1.9               | -    | V    |
|                 |                          | I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 4.5 V                | 4.4  | 4.5   | -    | 4.4       | -        | 4.4               | -    | V    |
|                 |                          | I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 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 <sub>OL</sub> | LOW-level                | V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>             |      |       |      |           |          |                   |      |      |
|                 | output voltage           | $I_O = 20 \mu A; V_{CC} = 2.0 V$                                | -    | 0     | 0.1  | -         | 0.1      | -                 | 0.1  | V    |
|                 |                          | I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 4.5 V                 | -    | 0     | 0.1  | -         | 0.1      | -                 | 0.1  | V    |
|                 |                          | I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 6.0 V                 | -    | 0     | 0.1  | -         | 0.1      | -                 | 0.1  | V    |
|                 |                          | $I_O = 4.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$                  | -    | 0.15  | 0.26 | -         | 0.33     | -                 | 0.4  | V    |
|                 |                          | $I_O = 5.2 \text{ mA}; V_{CC} = 6.0 \text{ V}$                  | -    | 0.16  | 0.26 | -         | 0.33     | -                 | 0.4  | V    |
| I <sub>I</sub>  | input leakage<br>current | $V_I = V_{CC}$ or GND;<br>$V_{CC} = 6.0 \text{ V}$              | -    | -     | ±0.1 | -         | ±1.0     | -                 | ±1.0 | μΑ   |
| I <sub>CC</sub> | supply current           | $V_I = V_{CC}$ or GND; $I_O = 0$ A;<br>$V_{CC} = 6.0 \text{ V}$ | -    | -     | 8.0  | -         | 80       | -                 | 160  | μΑ   |
| C <sub>I</sub>  | input<br>capacitance     |   | -    | 3.5   | -    | -         | -        | -                 | -    | pF   |

### 3-to-8 line decoder, demultiplexer with address latches

# 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 Fig. 8.

| Symbol          | Parameter          | Conditions                                    |     |     | 25 °C |     | -40 °C | to +85 °C | -40 °C to +125 °C |     | Unit |
|-----------------|--------------------|---|-----|-----|-------|-----|--------|-----------|-------------------|-----|------|
|                 |                    |   |     | Min | Тур   | Max | Min    | Max       | Min               | Max |      |
| t <sub>pd</sub> | propagation        | An to Yn; see Fig. 5                          | [1] |     |       |     |        |           |                   |     |      |
|                 | delay              | V <sub>CC</sub> = 2.0 V                       |     | -   | 52    | 160 | -      | 200       | -                 | 240 | ns   |
|                 |                    | V <sub>CC</sub> = 4.5 V                       |     | -   | 19    | 32  | -      | 40        | -                 | 48  | ns   |
|                 |                    | V <sub>CC</sub> = 5 V; C <sub>L</sub> = 15 pF |     | -   | 16    | -   | -      | -         | -                 | -   | ns   |
|                 |                    | V <sub>CC</sub> = 6.0 V                       |     | -   | 15    | 27  | -      | 34        | -                 | 41  | ns   |
|                 |                    | LE to Yn; see Fig. 5                          | [1] |     |       |     |        |           |                   |     |      |
|                 |                    | V <sub>CC</sub> = 2.0 V                       |     | -   | 61    | 190 | -      | 240       | -                 | 285 | ns   |
|                 |                    | V <sub>CC</sub> = 4.5 V                       |     | -   | 22    | 38  | -      | 48        | -                 | 57  | ns   |
|                 |                    | $V_{CC} = 5 \text{ V}; C_L = 15 \text{ pF}$   |     | -   | 19    | -   | -      | -         | -                 | -   | ns   |
|                 |                    | V <sub>CC</sub> = 6.0 V                       |     | -   | 18    | 32  | -      | 41        | -                 | 48  | ns   |
|                 |                    | E1to Yn; see Fig. 6                           | [1] |     |       |     |        |           |                   |     |      |
|                 |                    | V <sub>CC</sub> = 2.0 V                       |     | -   | 47    | 145 | -      | 180       | -                 | 220 | ns   |
|                 |                    | V <sub>CC</sub> = 4.5 V                       |     | -   | 17    | 29  | -      | 36        | -                 | 44  | ns   |
|                 |                    | $V_{CC} = 5 \text{ V}; C_L = 15 \text{ pF}$   |     | -   | 14    | -   | -      | -         | -                 | -   | ns   |
|                 |                    | V <sub>CC</sub> = 6.0 V                       |     | -   | 14    | 25  | -      | 31        | -                 | 38  | ns   |
|                 |                    | E2 to Yn; see Fig. 5                          | [1] |     |       |     |        |           |                   |     |      |
|                 |                    | V <sub>CC</sub> = 2.0 V                       |     | -   | 47    | 145 | -      | 180       | -                 | 220 | ns   |
|                 |                    | V <sub>CC</sub> = 4.5 V                       |     | -   | 17    | 29  | -      | 36        | -                 | 44  | ns   |
|                 |                    | $V_{CC} = 5 \text{ V}; C_L = 15 \text{ pF}$   |     | -   | 14    | -   | -      | -         | -                 | -   | ns   |
|                 |                    | V <sub>CC</sub> = 6.0 V                       |     | -   | 14    | 25  | -      | 31        | -                 | 38  | ns   |
| t <sub>t</sub>  | transition<br>time | Yn; see <u>Fig. 5</u> and <u>Fig. 6</u>       | [2] |     |       |     |        |           |                   |     |      |
|                 |                    | V <sub>CC</sub> = 2.0 V                       |     | -   | 19    | 75  | -      | 95        | -                 | 110 | ns   |
|                 |                    | V <sub>CC</sub> = 4.5 V                       |     | -   | 7     | 15  | -      | 19        | -                 | 22  | ns   |
|                 |                    | V <sub>CC</sub> = 6.0 V                       |     | -   | 6     | 13  | -      | 16        | -                 | 19  | ns   |
| t <sub>W</sub>  | pulse width        | LE HIGH; see Fig. 7                           |     |     |       |     |        |           |                   |     |      |
|                 |                    | V <sub>CC</sub> = 2.0 V                       |     | 50  | 11    | -   | 65     | -         | 75                | -   | ns   |
|                 |                    | V <sub>CC</sub> = 4.5 V                       |     | 10  | 4     | -   | 13     | -         | 15                | -   | ns   |
|                 |                    | V <sub>CC</sub> = 6.0 V                       |     | 9   | 3     | -   | 11     | -         | 13                | -   | ns   |
| t <sub>su</sub> | set-up time        | An to LE; see Fig. 7                          |     |     |       |     |        |           |                   |     |      |
|                 |                    | V <sub>CC</sub> = 2.0 V                       |     | 50  | 6     | -   | 65     | -         | 75                | -   | ns   |
|                 |                    | V <sub>CC</sub> = 4.5 V                       |     | 10  | 2     | -   | 13     | -         | 15                | -   | ns   |
|                 |                    | V <sub>CC</sub> = 6.0 V                       |     | 9   | 2     | -   | 11     | -         | 13                | -   | ns   |

**Product data sheet** 

#### 3-to-8 line decoder, demultiplexer with address latches

| Symbol          | Parameter                           | Conditions   |     | 25 °C |     |     | -40 °C to +85 °C |     | -40 °C to +125 °C |    |
|-----------------|-------------------------------------|--|-----|-------|-----|-----|------------------|-----|-------------------|----|
|                 |                                     |  | Min | Тур   | Max | Min | Max              | Min | Max               |    |
| t <sub>h</sub>  | hold time                           | An to LE; see Fig. 7                                     |     |       |     |     | -                |     |                   |    |
|                 |                                     | V <sub>CC</sub> = 2.0 V                                  | 30  | 3     | -   | 40  | -                | 45  | -                 | ns |
|                 |                                     | V <sub>CC</sub> = 4.5 V                                  | 6   | 1     | -   | 8   | -                | 9   | -                 | ns |
|                 |                                     | V <sub>CC</sub> = 6.0 V                                  | 5   | 1     | -   | 7   | -                | 8   | -                 | ns |
| C <sub>PD</sub> | power<br>dissipation<br>capacitance | $C_L$ = 50 pF; f = 1 MHz; [3]<br>$V_I$ = GND to $V_{CC}$ | -   | 60    | -   | -   | -                | -   | -                 | pF |

- $t_{\text{pd}}$  is the same as  $t_{\text{PLH}}$  and  $t_{\text{PHL}}$ .
- $t_t$  is the same as  $t_{THL}$  and  $t_{TLH}$ .  $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu W$ ).

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

 $f_i$  = input frequency in MHz;

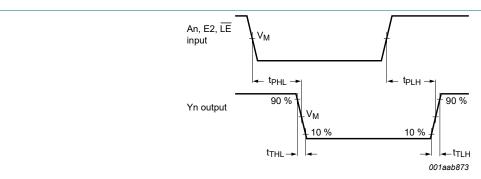
fo = output frequency in MHz;

C<sub>L</sub> = output load capacitance in pF;

V<sub>CC</sub> = supply voltage in V;

N = number of inputs switching;  $\sum (C_L \times V_{CC}^2 \times f_0) = \text{sum of outputs.}$ 

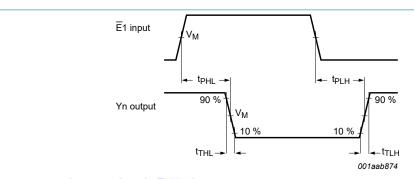
### 10.1. Waveforms and test circuit



Measurement points are given in Table 8.

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

Propagation delay input (An) and enable inputs (E2, LE) to output (Yn) and output transition time Fig. 5.

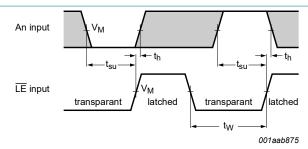


Measurement points are given in <u>Table 8</u>.

V<sub>OL</sub> and V<sub>OH</sub> are typical voltage output levels that occur with the output load.

Propagation enable inputs (E1) to output (Yn) and output transition time

#### 3-to-8 line decoder, demultiplexer with address latches



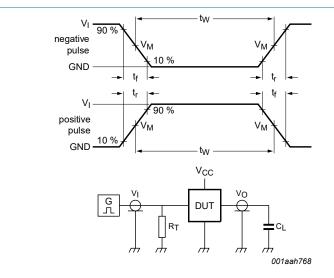
Measurement points are given in Table 8.

V<sub>OL</sub> and V<sub>OH</sub> are typical voltage output levels that occur with the output load.

Fig. 7. The data input (An) to latch enable input (LE) set-up times, latch enable input (LE) to data input (An) hold times and latch enable input (LE) pulse width

Table 8. Measurement points

| Input                 | Output                |
|-----------------------|-----------------------|
| $V_{M}$               | $V_{M}$               |
| 0.5 × V <sub>CC</sub> | 0.5 × V <sub>CC</sub> |



Test data is given in Table 9.

Definitions test circuit:

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

C<sub>L</sub> = Load capacitance including jig and probe capacitance.

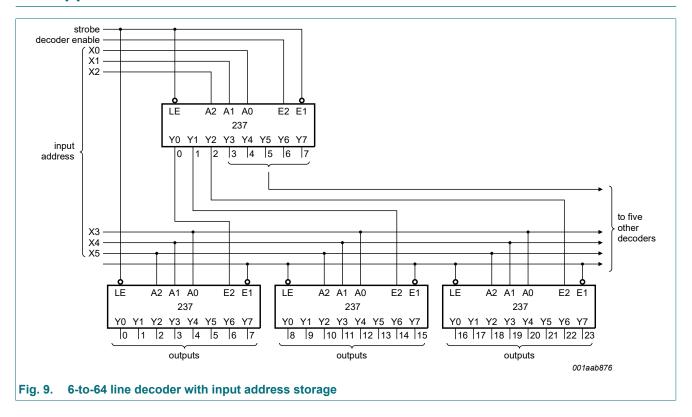
Fig. 8. Test circuit for measuring switching times

Table 9. Test data

| Input           |                                 | Load         | Test                                |
|-----------------|---------------------------------|--------------|-------------------------------------|
| V <sub>I</sub>  | t <sub>r</sub> , t <sub>f</sub> | CL           |                                     |
| V <sub>CC</sub> | 6.0 ns                          | 15 pF, 50 pF | t <sub>PLH</sub> , t <sub>PHL</sub> |

### 3-to-8 line decoder, demultiplexer with address latches

# 11. Application information



#### 3-to-8 line decoder, demultiplexer with address latches

# 12. Package outline

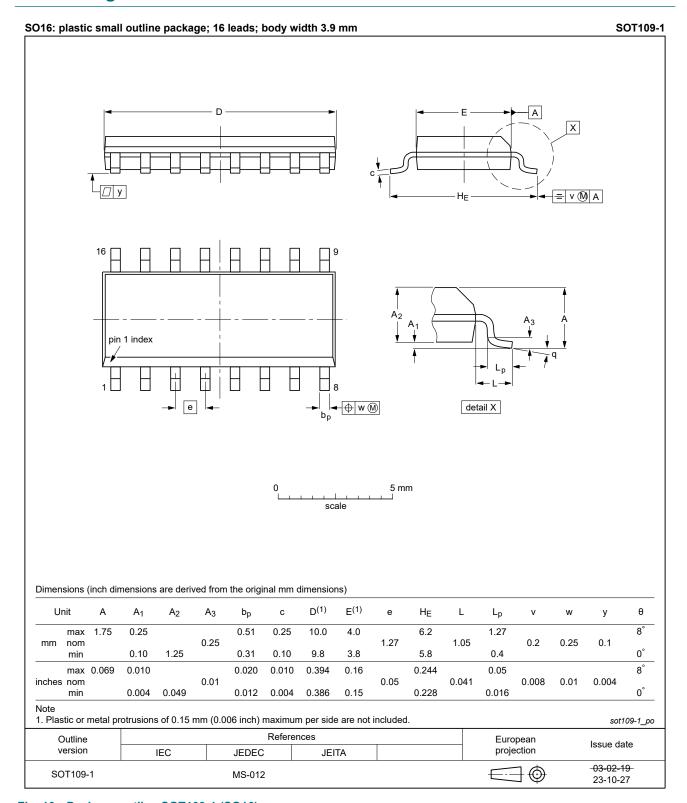


Fig. 10. Package outline SOT109-1 (SO16)

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#### 3-to-8 line decoder, demultiplexer with address latches

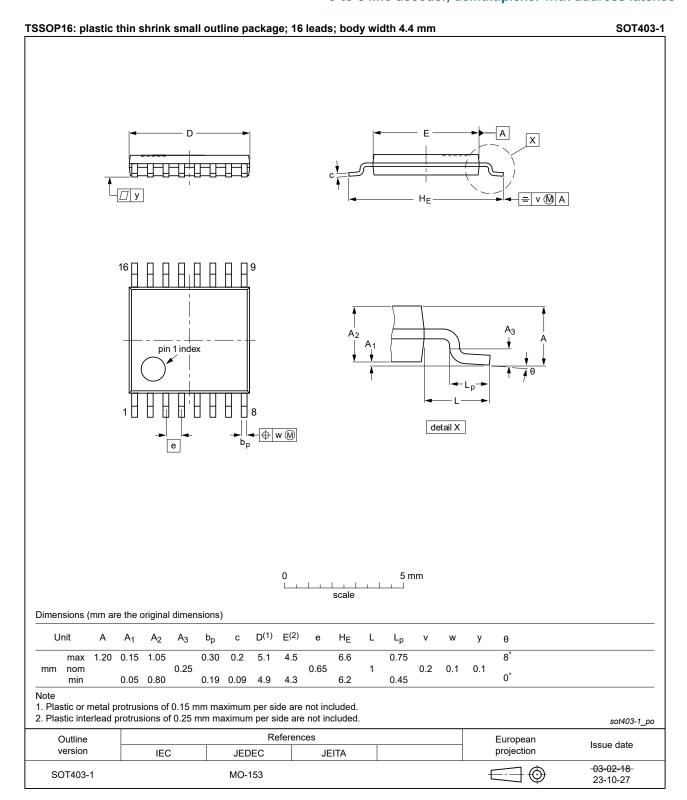


Fig. 11. Package outline SOT403-1 (TSSOP16)

## 3-to-8 line decoder, demultiplexer with address latches

## 13. Abbreviations

#### **Table 10. Abbreviations**

| Acronym | Description                             |
|---------|---|
| CDM     | Charged Device Model                    |
| CMOS    | Complementary Metal Oxide Semiconductor |
| DUT     | Device Under Test                       |
| ESD     | ElectroStatic Discharge                 |
| НВМ     | Human Body Model                        |
| TTL     | Transistor-Transistor Logic             |

# 14. Revision history

## Table 11. Revision history

| Document ID         | Release date  | Data sheet status                                    | Change notice              | Supersedes          |  |  |  |  |  |
|---------------------|---|--|----------------------------|---------------------|--|--|--|--|--|
| 74HC237 v.9         | 20240111  | Product data sheet                                   | -                          | 74HC237 v.8         |  |  |  |  |  |
| Modifications:      | <ul> <li>Type number 74HC237DB (SOT338-1/SSOP16) removed.</li> <li>Section 2: ESD specification updated according to the latest JEDEC standard.</li> <li>Fig. 10, Fig. 11: Aligned SO and TSSOP package outline drawings to JEDEC MS-01 and MO-153</li> </ul> |  |                            |                     |  |  |  |  |  |
| 74HC237 v.8         | 20211026  | Product data sheet                                   | -                          | 74HC237 v.7         |  |  |  |  |  |
| Modifications:      | guidelines of Legal texts Type number Section 1 ar  | Type Hallisel 741102011 W (GC1400-1/10001-10) added. |                            |                     |  |  |  |  |  |
| 74HC237 v.7         | 20160129  | Product data sheet                                   | -                          | 74HC237 v.6         |  |  |  |  |  |
| Modifications:      | Type number   | er 74HC237N removed.                                 |                            |                     |  |  |  |  |  |
| 74HC237 v.6         | 20120823  | Product data sheet                                   | -                          | 74HC237 v.5         |  |  |  |  |  |
| Modifications:      | Measureme   | ent points added to Fig. 5 a                         | nd <u>Fig. 6</u> (errata). |                     |  |  |  |  |  |
| 74HC237 v.5         | 20111209  | Product data sheet                                   | -                          | 74HC237 v.4         |  |  |  |  |  |
| Modifications:      | Legal pages   | s updated.   |                            |                     |  |  |  |  |  |
| 74HC237 v.4         | 20110110  | Product data sheet                                   | -                          | 74HC237 v.3         |  |  |  |  |  |
| 74HC237 v.3         | 20041112  | Product data sheet                                   | -                          | 74HC_HCT237_CNV v.2 |  |  |  |  |  |
| 74HC_HCT237_CNV v.2 | 19970828  | Product specification                                | -                          | 74HC_HCT237 v.1     |  |  |  |  |  |
| 74HC_HCT237 v.1     | 19901201  | Product specification                                | -                          | -                   |  |  |  |  |  |

## 3-to-8 line decoder, demultiplexer with address latches

## 15. Legal information

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| Document status [1][2]         | Product<br>status [3] | Definition  |
|--------------------------------|-----------------------|---|
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