

74HC365; 74HCT365

Hex buffer/line driver; 3-state

Rev. 6 — 28 July 2021

Product data sheet

1. General description

The 74HC365; 74HCT365 is a hex buffer/line driver with 3-state outputs controlled by the output enable inputs ($\overline{OE_n}$). A HIGH on $\overline{OE_n}$ causes the outputs to assume a high impedance OFF-state. 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 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)
- Non-inverting outputs
- Input levels:
 - For 74HC365: CMOS level
 - For 74HCT365: TTL level
- ESD protection:
 - HBM JESD22-A114F exceeds 2000 V
 - MM JESD22-A115-A exceeds 200 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
74HC365D	-40 °C to +125 °C	SO16	plastic small outline package; 16 leads; body width 3.9 mm	SOT109-1
74HCT365D				
74HC365PW	-40 °C to +125 °C	TSSOP16	plastic thin shrink small outline package; 16 leads; body width 4.4 mm	SOT403-1
74HCT365PW				

4. Functional diagram

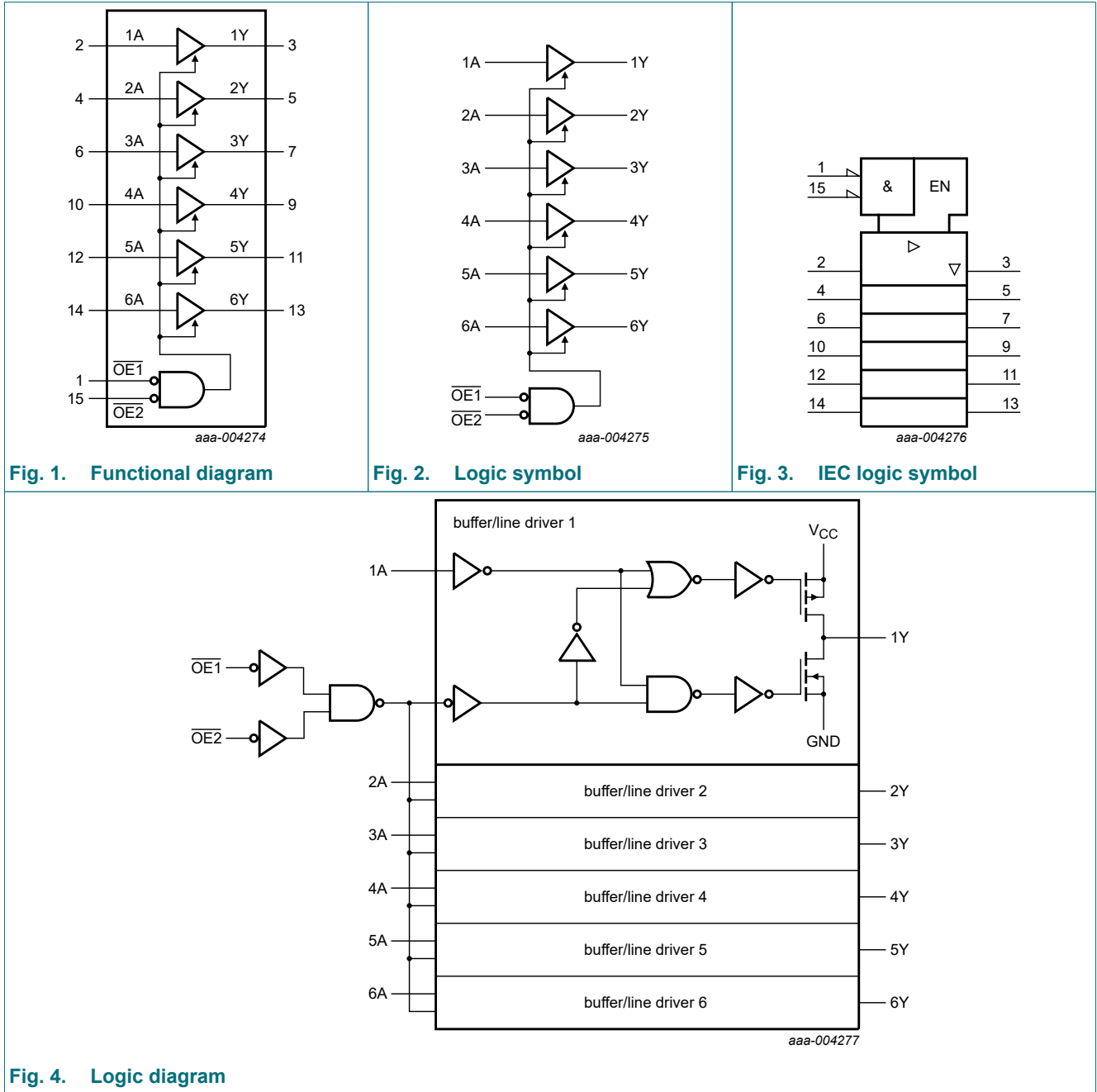


Fig. 1. Functional diagram

Fig. 2. Logic symbol

Fig. 3. IEC logic symbol

Fig. 4. Logic diagram

5. Pinning information

5.1. Pinning

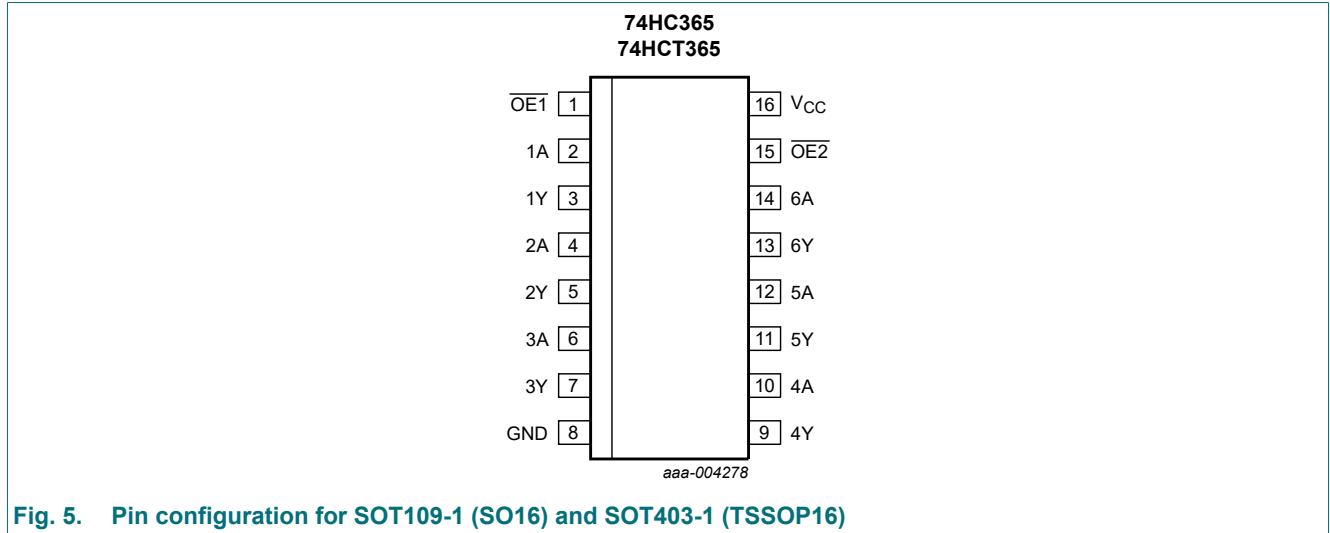


Fig. 5. Pin configuration for SOT109-1 (SO16) and SOT403-1 (TSSOP16)

5.2. Pin description

Table 2. Pin description

Symbol	Pin	Description
OE1	1	output enable input 1 (active LOW)
1A	2	data input 1
1Y	3	data output 1
2A	4	data input 2
2Y	5	data output 2
3A	6	data input 3
3Y	7	data output 3
GND	8	ground (0 V)
4Y	9	data output 4
4A	10	data input 4
5Y	11	data output 5
5A	12	data input 5
6Y	13	data output 6
6A	14	data input 6
OE2	15	output enable input 2 (active LOW)
V _{CC}	16	supply voltage

6. Functional description

Table 3. Function table

H = HIGH voltage level; L = LOW voltage level; X = don't care; Z = high-impedance OFF-state.

Control		Input	Output
OE1	OE2	nA	nY
L	L	L	L
L	L	H	H
X	H	X	Z
H	X	X	Z

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	$V_I < -0.5\text{ V}$ 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	$V_O = -0.5\text{ V}$ to $(V_{CC} + 0.5\text{ V})$	-	± 35	mA
I_{CC}	supply current		-	70	mA
I_{GND}	ground current		-70	-	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.

8. Recommended operating conditions

Table 5. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V)

Symbol	Parameter	Conditions	74HC365			74HCT365			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 74HC365

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}	-	-	-	
		I _O = -20 µA; V _{CC} = 2.0 V	1.9	2.0	-	V
		I _O = -20 µA; V _{CC} = 4.5 V	4.4	4.5	-	V
		I _O = -20 µA; V _{CC} = 6.0 V	5.9	6.0	-	V
		I _O = -6.0 mA; V _{CC} = 4.5 V	3.98	4.32	-	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	V
		I _O = 20 µA; V _{CC} = 4.5 V	-	0	0.1	V
		I _O = 20 µA; V _{CC} = 6.0 V	-	0	0.1	V
		I _O = 6.0 mA; V _{CC} = 4.5 V	-	0.15	0.26	V
		I _O = 7.8 mA; V _{CC} = 6.0 V	-	0.16	0.26	V
I _I	input leakage current	V _I = V _{CC} or GND; V _{CC} = 6.0 V	-	-	±0.1	µA
I _{OZ}	OFF-state output current	V _I = V _{IH} or V _{IL} ; V _O = V _{CC} or GND; V _{CC} = 6.0 V	-	-	±0.5	µA
I _{CC}	supply current	V _I = V _{CC} or GND; I _O = 0 A; V _{CC} = 6.0 V	-	-	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}				
		I _O = -20 µA; V _{CC} = 2.0 V	1.9	-	-	V
		I _O = -20 µA; V _{CC} = 4.5 V	4.4	-	-	V
		I _O = -20 µA; V _{CC} = 6.0 V	5.9	-	-	V
		I _O = -6.0 mA; V _{CC} = 4.5 V	3.84	-	-	V
		I _O = -7.8 mA; V _{CC} = 6.0 V	5.34	-	-	V

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V _{OL}	LOW-level output voltage	V _I = V _{IH} or V _{IL}				
		I _O = 20 μA; V _{CC} = 2.0 V	-	-	0.1	V
		I _O = 20 μA; V _{CC} = 4.5 V	-	-	0.1	V
		I _O = 20 μA; V _{CC} = 6.0 V	-	-	0.1	V
		I _O = 6.0 mA; V _{CC} = 4.5 V	-	-	0.33	V
		I _O = 7.8 mA; V _{CC} = 6.0 V	-	-	0.33	V
I _I	input leakage current	V _I = V _{CC} or GND; V _{CC} = 6.0 V	-	-	±1.0	μA
I _{OZ}	OFF-state output current	V _I = V _{IH} or V _{IL} ; V _O = V _{CC} or GND; V _{CC} = 6.0 V	-	-	±5.0	μA
I _{CC}	supply current	V _I = V _{CC} or GND; I _O = 0 A; V _{CC} = 6.0 V	-	-	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}				
		I _O = -20 μA; V _{CC} = 2.0 V	1.9	-	-	V
		I _O = -20 μA; V _{CC} = 4.5 V	4.4	-	-	V
		I _O = -20 μA; V _{CC} = 6.0 V	5.9	-	-	V
		I _O = -6.0 mA; V _{CC} = 4.5 V	3.7	-	-	V
		I _O = -7.8 mA; V _{CC} = 6.0 V	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	-	-	0.1	V
		I _O = 20 μA; V _{CC} = 4.5 V	-	-	0.1	V
		I _O = 20 μA; V _{CC} = 6.0 V	-	-	0.1	V
		I _O = 6.0 mA; V _{CC} = 4.5 V	-	-	0.4	V
		I _O = 7.8 mA; V _{CC} = 6.0 V	-	-	0.4	V
I _I	input leakage current	V _I = V _{CC} or GND; V _{CC} = 6.0 V	-	-	±1.0	μA
I _{OZ}	OFF-state output current	V _I = V _{IH} or V _{IL} ; V _O = V _{CC} or GND; V _{CC} = 6.0 V	-	-	±10.0	μA
I _{CC}	supply current	V _I = V _{CC} or GND; I _O = 0 A; V _{CC} = 6.0 V	-	-	160	μA

Table 7. Static characteristics 74HCT365

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
		I _O = -6.0 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
		I _O = 6.0 mA	-	0.16	0.26	V
I _I	input leakage current	V _I = V _{CC} or GND; V _{CC} = 5.5 V	-	-	±0.1	μA
I _{OZ}	OFF-state output current	V _I = V _{IH} or V _{IL} ; V _O = V _{CC} or GND; V _{CC} = 5.5 V	-	-	±0.5	μA
I _{CC}	supply current	V _I = V _{CC} or GND; I _O = 0 A; V _{CC} = 5.5 V	-	-	8.0	μA
ΔI _{CC}	additional supply current	V _I = V _{CC} - 2.1 V; other inputs at V _{CC} or GND; I _O = 0 A				
		pins nA	-	100	360	μA
		pin OE1	-	100	360	μA
		pin OE2	-	90	324	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
		I _O = -6.0 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
		I _O = 6.0 mA	-	-	0.33	V
I _I	input leakage current	V _I = V _{CC} or GND; V _{CC} = 5.5 V	-	-	±1.0	μA
I _{OZ}	OFF-state output current	V _I = V _{IH} or V _{IL} ; V _O = V _{CC} or GND; V _{CC} = 5.5 V			±5.0	μA
I _{CC}	supply current	V _I = V _{CC} or GND; I _O = 0 A; V _{CC} = 5.5 V	-	-	80	μA
ΔI _{CC}	additional supply current	V _I = V _{CC} - 2.1 V; other inputs at V _{CC} or GND; I _O = 0 A				
		pins nA	-	-	450	μA
		pin OE1	-	-	450	μA
		pin OE2	-	-	405	μA

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
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
		I _O = -6.0 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
		I _O = 6.0 mA	-	-	0.4	V
I _I	input leakage current	V _I = V _{CC} or GND; V _{CC} = 5.5 V	-	-	±1.0	µA
I _{OZ}	OFF-state output current	V _I = V _{IH} or V _{IL} ; V _O = V _{CC} or GND; V _{CC} = 5.5 V	-	-	±10.0	µA
I _{CC}	supply current	V _I = V _{CC} or GND; I _O = 0 A; V _{CC} = 5.5 V	-	-	160	µA
ΔI _{CC}	additional supply current	V _I = V _{CC} - 2.1 V; other inputs at V _{CC} or GND; I _O = 0 A				
		pins nA	-	-	490	µA
		pin $\overline{\text{OE}}1$	-	-	490	µA
		pin $\overline{\text{OE}}2$	-	-	441	µA

10. Dynamic characteristics

Table 8. Dynamic characteristics 74HC365

Voltages are referenced to GND (ground = 0 V); C_L = 50 pF unless otherwise specified; see test circuit Fig. 8.

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
T_{amb} = 25 °C						
t _{pd}	propagation delay	nA to nY; see Fig. 6 [1]				
		V _{CC} = 2.0 V	-	30	95	ns
		V _{CC} = 4.5 V	-	11	19	ns
		V _{CC} = 5 V; C _L = 15 pF	-	9	-	ns
		V _{CC} = 6.0 V	-	9	16	ns
t _{en}	enable time	$\overline{\text{OEn}}$ to nY; see Fig. 7 [2]				
		V _{CC} = 2.0 V	-	47	150	ns
		V _{CC} = 4.5 V	-	17	30	ns
		V _{CC} = 6.0 V	-	14	26	ns
t _{dis}	disable time	$\overline{\text{OEn}}$ to nY; see Fig. 7 [3]				
		V _{CC} = 2.0 V	-	61	150	ns
		V _{CC} = 4.5 V	-	22	30	ns
		V _{CC} = 6.0 V	-	18	26	ns
t _t	transition time	see Fig. 6 [4]				
		V _{CC} = 2.0 V	-	14	60	ns
		V _{CC} = 4.5 V	-	5	12	ns
		V _{CC} = 6.0 V	-	4	10	ns
C _{PD}	power dissipation capacitance	per buffer; V _I = GND to V _{CC} [5]	-	40	-	pF

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
T_{amb} = -40 °C to +85 °C						
t _{pd}	propagation delay	nA to nY; see Fig. 6 [1]				
		V _{CC} = 2.0 V	-	-	120	ns
		V _{CC} = 4.5 V	-	-	24	ns
		V _{CC} = 6.0 V	-	-	20	ns
t _{en}	enable time	OE _n to nY; see Fig. 7 [2]				
		V _{CC} = 2.0 V	-	-	190	ns
		V _{CC} = 4.5 V	-	-	38	ns
		V _{CC} = 6.0 V	-	-	33	ns
t _{dis}	disable time	OE _n to nY; see Fig. 7 [3]				
		V _{CC} = 2.0 V	-	-	190	ns
		V _{CC} = 4.5 V	-	-	38	ns
		V _{CC} = 6.0 V	-	-	33	ns
t _t	transition time	see Fig. 6 [4]				
		V _{CC} = 2.0 V	-	-	75	ns
		V _{CC} = 4.5 V	-	-	15	ns
		V _{CC} = 6.0 V	-	-	13	ns
T_{amb} = -40 °C to +125 °C						
t _{pd}	propagation delay	nA to nY; see Fig. 6 [1]				
		V _{CC} = 2.0 V	-	-	145	ns
		V _{CC} = 4.5 V	-	-	29	ns
		V _{CC} = 6.0 V	-	-	25	ns
t _{en}	enable time	OE _n to nY; see Fig. 7 [2]				
		V _{CC} = 2.0 V	-	-	225	ns
		V _{CC} = 4.5 V	-	-	45	ns
		V _{CC} = 6.0 V	-	-	38	ns
t _{dis}	disable time	OE _n to nY; see Fig. 7 [3]				
		V _{CC} = 2.0 V	-	-	225	ns
		V _{CC} = 4.5 V	-	-	45	ns
		V _{CC} = 6.0 V	-	-	38	ns
t _t	transition time	see Fig. 6 [4]				
		V _{CC} = 2.0 V	-	-	90	ns
		V _{CC} = 4.5 V	-	-	18	ns
		V _{CC} = 6.0 V	-	-	15	ns

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

[2] t_{en} is the same as t_{PZH} and t_{PZL}.

[3] t_{dis} is the same as t_{PHZ} and t_{PLZ}.

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

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

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

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;

Σ(C_L × V_{CC}² × f_o) = sum of outputs.

Table 9. Dynamic characteristics 74HCT365

Voltages are referenced to GND (ground = 0 V); $C_L = 50$ pF unless otherwise specified; see test circuit Fig. 8.

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
T_{amb} = 25 °C						
t _{pd}	propagation delay	nA to nY; see Fig. 6 [1]				
		V _{CC} = 4.5 V	-	14	25	ns
		V _{CC} = 5 V; C _L = 15 pF	-	11	-	ns
t _{en}	enable time	\overline{OEn} to nY; V _{CC} = 4.5 V; see Fig. 7 [2]	-	18	35	ns
t _{dis}	disable time	\overline{OEn} to nY; V _{CC} = 4.5 V; see Fig. 7 [3]	-	23	35	ns
t _t	transition time	V _{CC} = 4.5 V; see Fig. 6 [4]	-	5	12	ns
C _{PD}	power dissipation capacitance	per buffer; V _I = GND to (V _{CC} - 1.5 V) [5]	-	40	-	pF
T_{amb} = -40 °C to +85 °C						
t _{pd}	propagation delay	nA to nY; V _{CC} = 4.5 V; see Fig. 6 [1]	-	-	31	ns
t _{en}	enable time	\overline{OEn} to nY; V _{CC} = 4.5 V; see Fig. 7 [2]	-	-	44	ns
t _{dis}	disable time	\overline{OEn} to nY; V _{CC} = 4.5 V; see Fig. 7 [3]	-	-	44	ns
t _t	transition time	V _{CC} = 4.5 V; see Fig. 6 [4]	-	-	15	ns
T_{amb} = -40 °C to +125 °C						
t _{pd}	propagation delay	nA to nY; V _{CC} = 4.5 V; see Fig. 6 [1]	-	-	38	ns
t _{en}	enable time	\overline{OEn} to nY; V _{CC} = 4.5 V; see Fig. 7 [2]	-	-	53	ns
t _{dis}	disable time	\overline{OEn} to nY; V _{CC} = 4.5 V; see Fig. 7 [3]	-	-	53	ns
t _t	transition time	V _{CC} = 4.5 V; see Fig. 6 [4]	-	-	18	ns

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

[2] t_{en} is the same as t_{PZH} and t_{PZL}.

[3] t_{dis} is the same as t_{PHZ} and t_{PLZ}.

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

[5] 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;

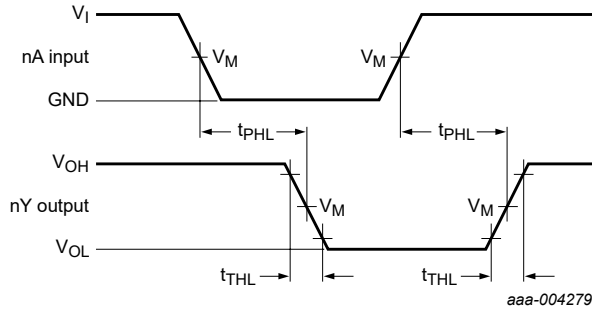
C_L = output load capacitance in pF;

V_{CC} = supply voltage in V;

N = number of inputs switching;

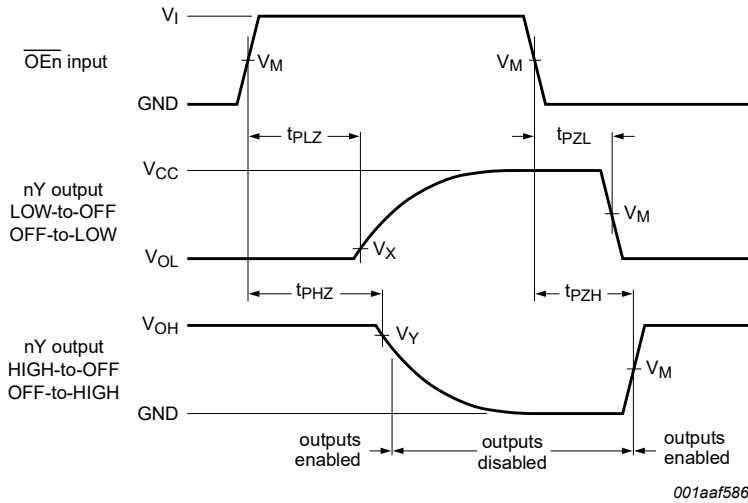
$\Sigma(C_L \times V_{CC}^2 \times f_o)$ = sum of outputs.

10.1. Waveforms and test circuit



Measurement points are given in Table 10.
 V_{OL} and V_{OH} are typical output voltage levels that occur with the output load.

Fig. 6. Propagation delay data input (nA) to output (nY) and output transition time



Measurement points are given in Table 10.
 V_{OL} and V_{OH} are typical output voltage levels that occur with the output load.

Fig. 7. 3-state enable and disable times

Table 10. Measurement points

Type	Input	Output		
	V_M	V_M	V_X	V_Y
74HC365	$0.5V_{CC}$	$0.5V_{CC}$	$0.1 \times V_{CC}$	$0.9 \times V_{CC}$
74HCT365	1.3 V	1.3 V	$0.1 \times V_{CC}$	$0.9 \times V_{CC}$

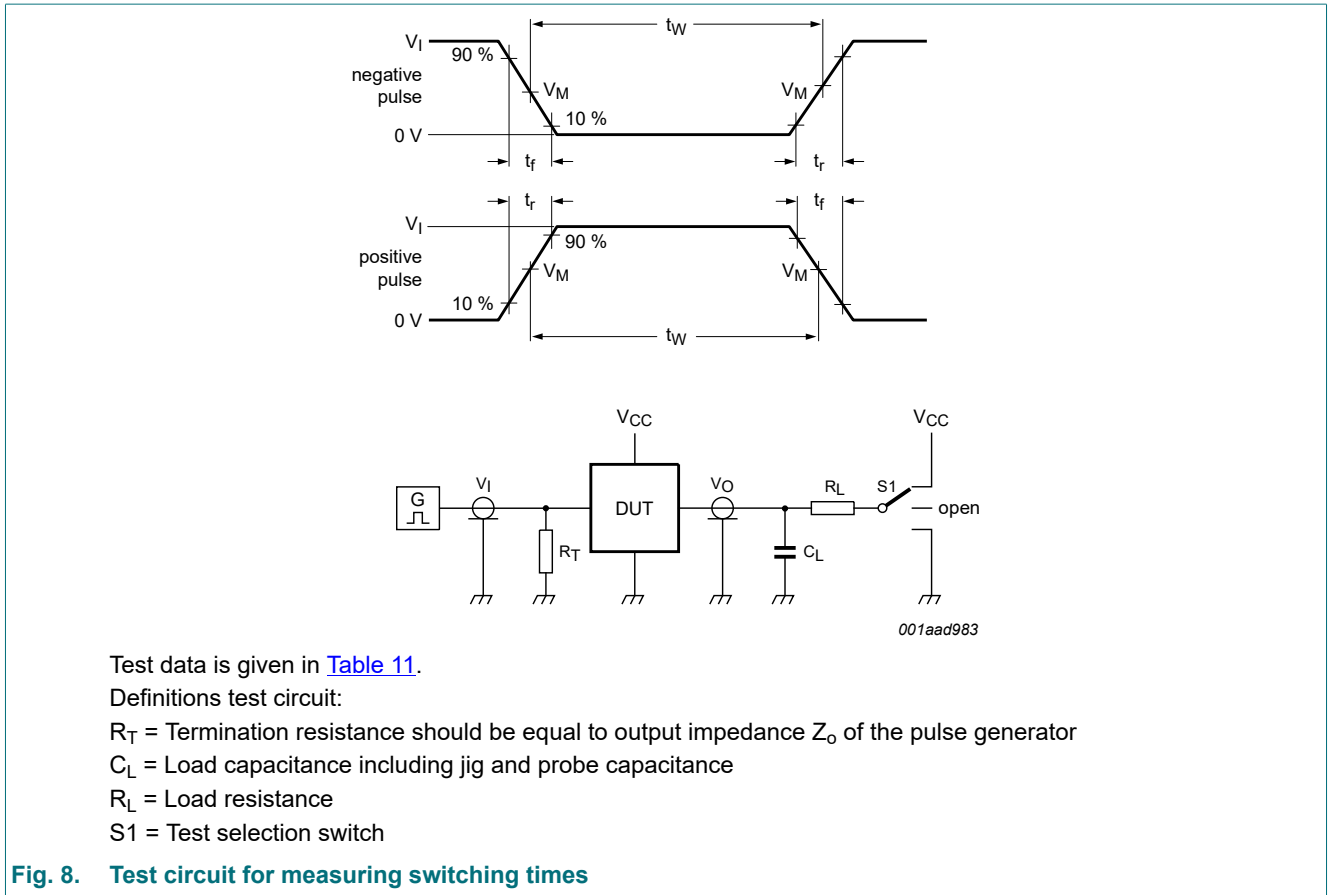


Table 11. Test data

Type	Input		Load		S1 position		
	V_I	t_r, t_f	C_L	R_L	t_{PHL}, t_{PLH}	t_{PZH}, t_{PHZ}	t_{PZL}, t_{PLZ}
74HC365	V_{CC}	6 ns	15 pF, 50 pF	1 k Ω	open	GND	V_{CC}
74HCT365	3 V	6 ns	15 pF, 50 pF	1 k Ω	open	GND	V_{CC}

11. Package outline

SO16: plastic small outline package; 16 leads; body width 3.9 mm

SOT109-1

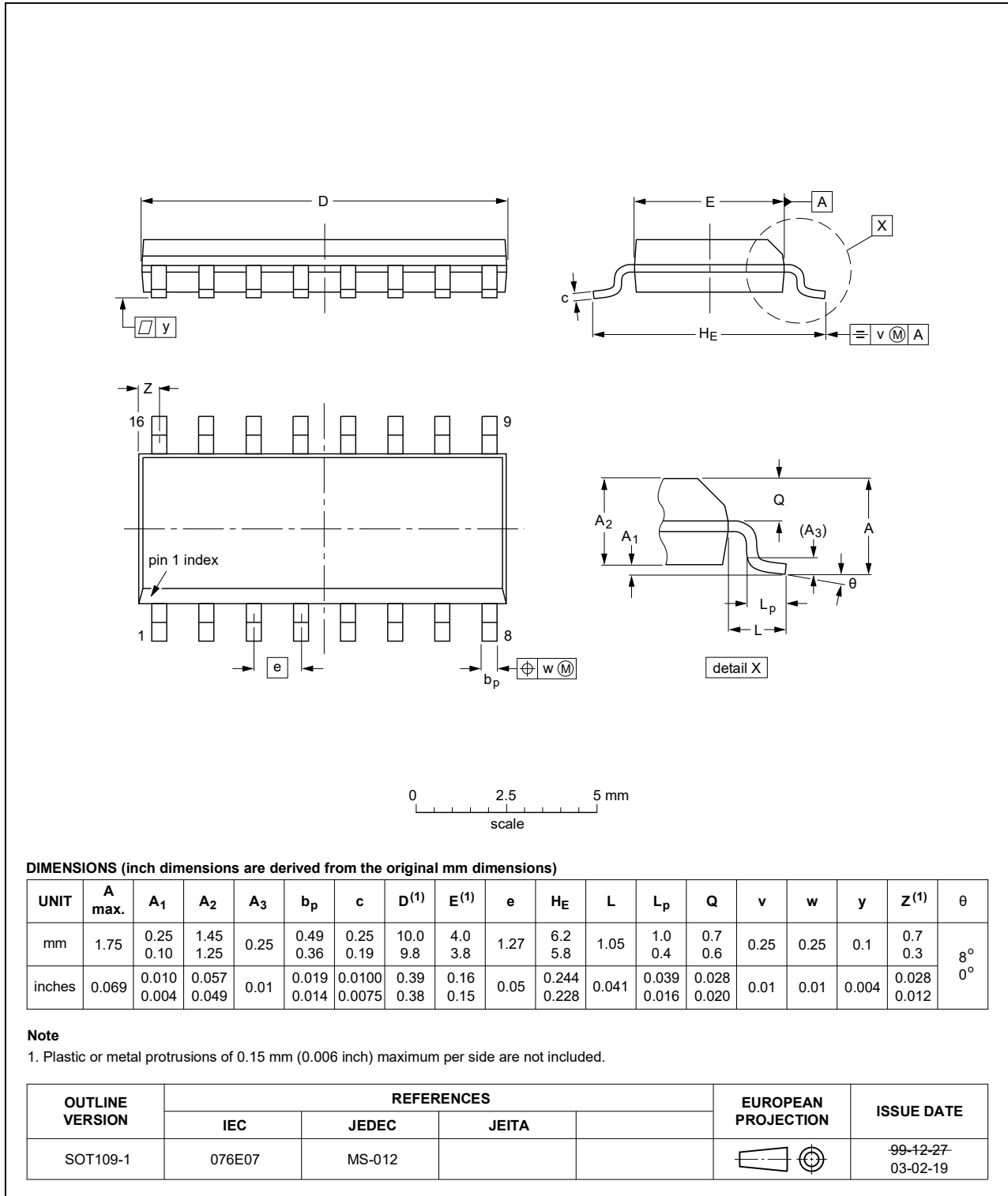


Fig. 9. Package outline SOT109-1 (SO16)

TSSOP16: plastic thin shrink small outline package; 16 leads; body width 4.4 mm

SOT403-1

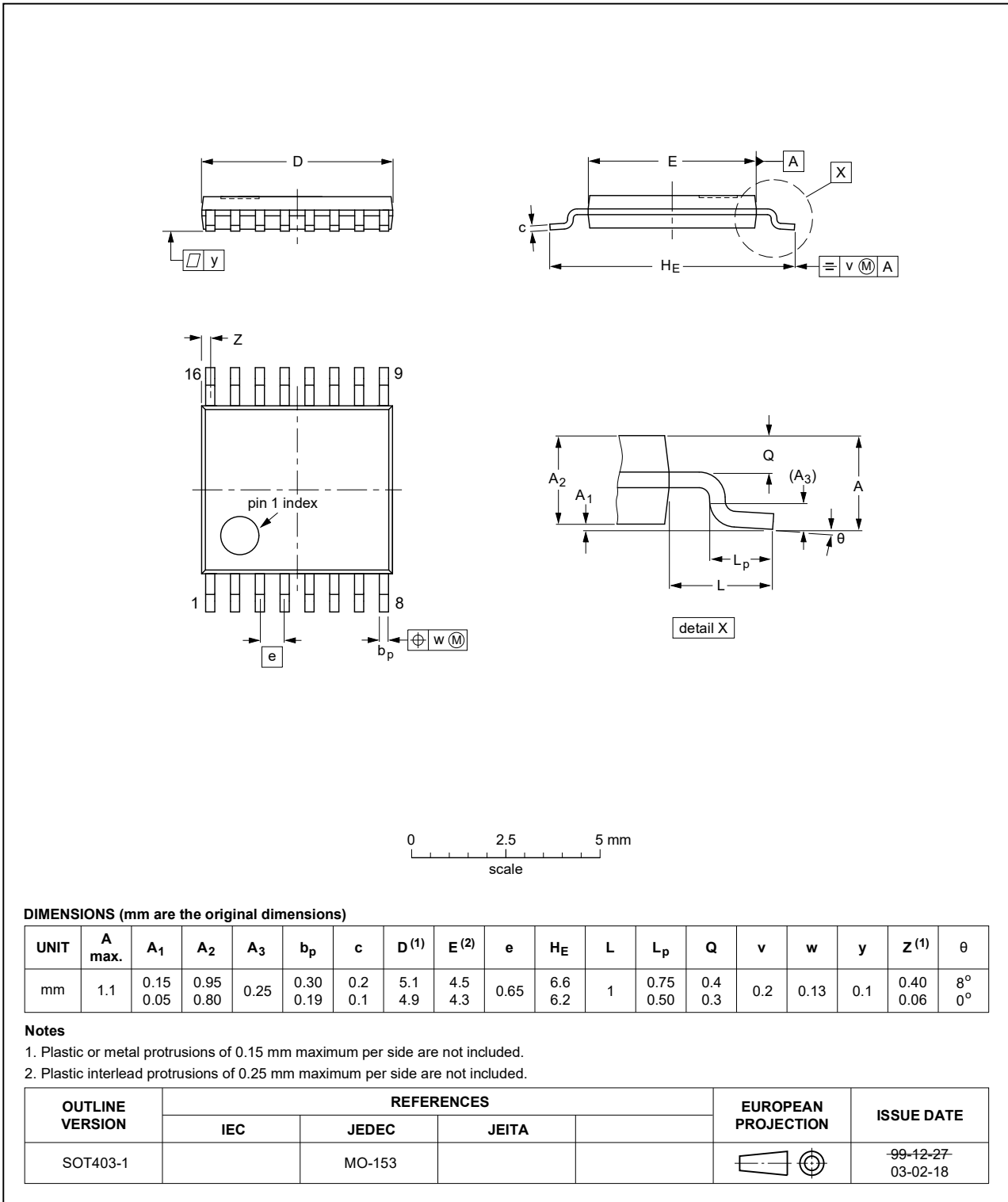


Fig. 10. Package outline SOT403-1 (TSSOP16)

12. Abbreviations

Table 12. Abbreviations

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

13. Revision history

Table 13. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74HC_HCT365 v.6	20210728	Product data sheet	-	74HC_HCT365 v.5
Modifications:	<ul style="list-style-type: none"> Type number 74HCT365DB (SOT338-1/SSOP16) removed. 			
74HC_HCT365 v.5	20210212	Product data sheet	-	74HC_HCT365 v.4
Modifications:	<ul style="list-style-type: none"> 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. Section 1 and Section 2 updated. Type number 74HC365DB (SOT338-1/SSOP16) removed. Section 7: Derating values for P_{tot} total power dissipation updated. 			
74HC_HCT365 v.4	20160127	Product data sheet	-	74HC_HCT365 v.3
Modifications:	<ul style="list-style-type: none"> Type numbers 74HC365N and 74HCT365N (SOT38-4) removed. 			
74HC_HCT365 v.3	20120905	Product data sheet	-	74HC_HCT365_CNV v.2
Modifications:	<ul style="list-style-type: none"> 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. 			
74HC_HCT365_CNV v.2	19970829	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.
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