

74LVC273

Octal D-type flip-flop with reset; positive-edge trigger

Rev. 6 — 31 December 2012

Product data sheet

1. General description

The 74LVC273 has eight edge-triggered, D-type flip-flops with individual D_n inputs and Q_n outputs. The common clock (CP) and master reset ($\overline{\text{MR}}$) inputs load and reset (clear) all flip-flops simultaneously. The state of each D_n input, one set-up time before the LOW-to-HIGH clock transition, is transferred to the corresponding output (Q_n) of the flip-flop. All outputs will be forced LOW independently of clock or data inputs by a LOW voltage level on the $\overline{\text{MR}}$ input.

The device is useful for applications where the true output only is required and the clock and master reset are common to all storage elements.

2. Features and benefits

- Wide supply voltage range from 1.2 V to 3.6 V
- Inputs accept voltages up to 5.5 V
- CMOS low power consumption
- Direct interface with TTL levels
- Output drive capability 50 Ω transmission lines at +85 °C
- Complies with JEDEC standard:
 - ◆ JESD8-7A (1.65 V to 1.95 V)
 - ◆ JESD8-5A (2.3 V to 2.7 V)
 - ◆ JESD8-C/JESD36 (2.7 V to 3.6 V)
- ESD protection:
 - ◆ HBM JESD22-A114F exceeds 2000 V
 - ◆ MM JESD22-A115-B exceeds 200 V
 - ◆ CDM JESD22-C101E exceeds 1000 V
- Specified from –40 °C to +85 °C and –40 °C to +125 °C



3. Ordering information

Table 1. Ordering information

Type number	Package			Version
	Temperature range	Name	Description	
74LVC273D	-40 °C to +125 °C	SO20	plastic small outline package; 20 leads; body width 7.5 mm	SOT163-1
74LVC273DB	-40 °C to +125 °C	SSOP20	plastic shrink small outline package; 20 leads; body width 5.3 mm	SOT339-1
74LVC273PW	-40 °C to +125 °C	TSSOP20	plastic thin shrink small outline package; 20 leads; body width 4.4 mm	SOT360-1
74LVC273BQ	-40 °C to +125 °C	DHVQFN20	plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 20 terminals; body 2.5 × 4.5 × 0.85 mm	SOT764-1

4. Functional diagram

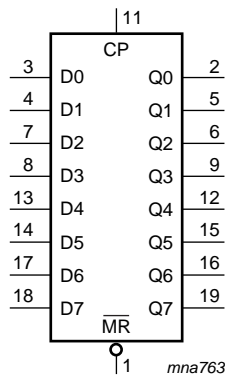


Fig 1. Logic symbol

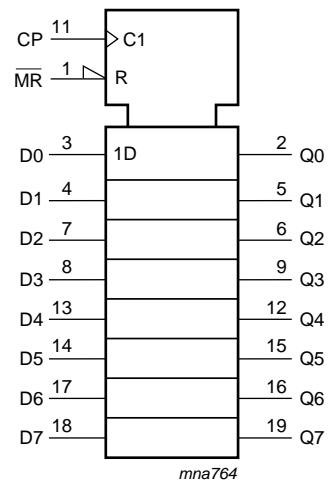
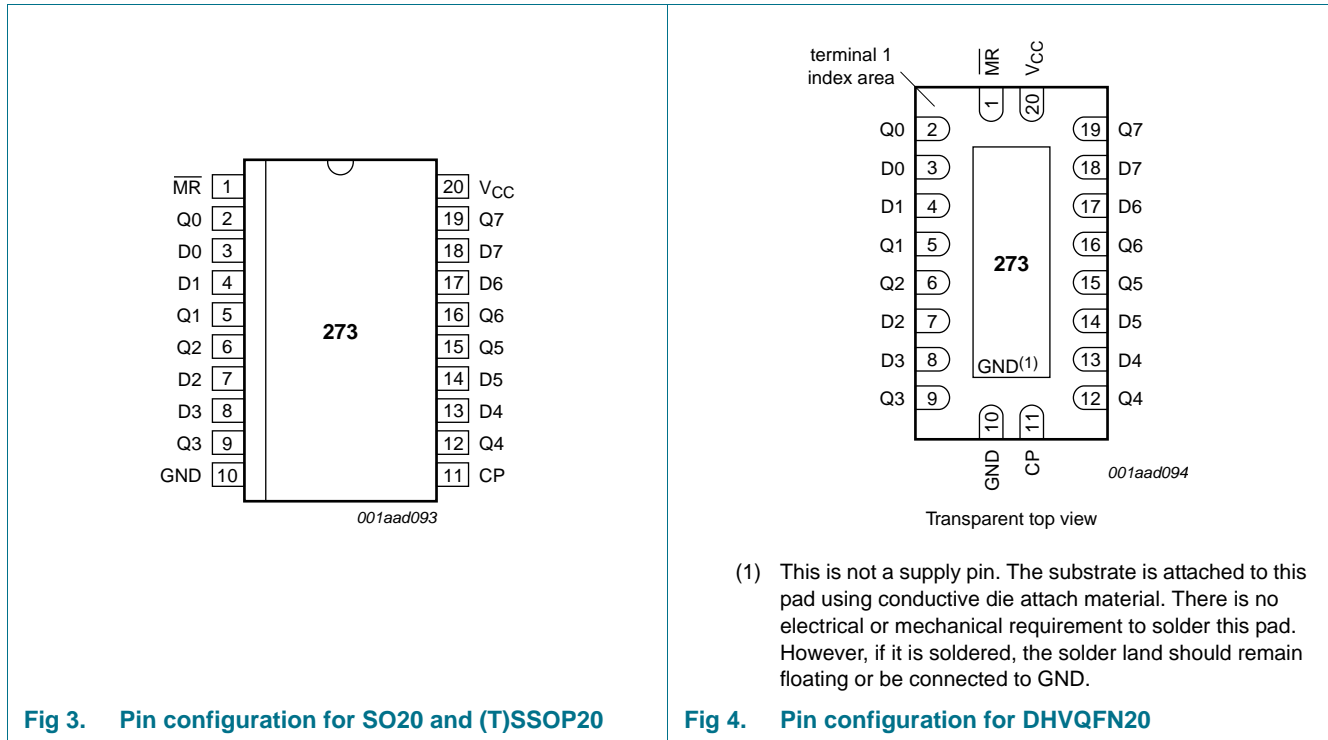


Fig 2. IEC logic symbol

5. Pinning information

5.1 Pinning



5.2 Pin description

Table 2. Pin description

Symbol	Pin	Description
$\overline{\text{MR}}$	1	master reset input (active LOW)
CP	11	clock input (LOW-to-HIGH; edge-triggered)
D[0:7]	3, 4, 7, 8, 13, 14, 17, 18	data input
Q[0:7]	2, 5, 6, 9, 12, 15, 16, 19	flip-flop output
GND	10	ground (0 V)
VCC	20	supply voltage

6. Functional description

Table 3. Function table^[1]

Operating mode	Input			Output
	$\overline{\text{MR}}$	CP	Dn	Qn
Reset (clear)	L	X	X	L
Load '1'	H	↑	h	H
Load '0'	H	↑	l	L

- [1] H = HIGH voltage level
 L = LOW voltage level
 X = don't care
 h = HIGH voltage level one set-up time prior to the LOW-to-HIGH CP transition
 l = LOW voltage level one set-up time prior to the LOW-to-HIGH CP transition
 ↑ = LOW-to-HIGH clock transition

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	+6.5	V
I_{IK}	input clamping current	$V_I < 0$ V	-50	-	mA
V_I	input voltage		[1] -0.5	+6.5	V
I_{OK}	output clamping current	$V_O > V_{CC}$ or $V_O < 0$ V	-	50	mA
V_O	output voltage		[2] -0.5	$V_{CC} + 0.5$	V
I_O	output current	$V_O = 0$ V to V_{CC}	-	±50	mA
I_{CC}	supply current		-	100	mA
I_{GND}	ground current		-100	-	mA
T_{stg}	storage temperature		-65	+150	°C
P_{tot}	total power dissipation	$T_{amb} = -40$ °C to +125 °C	[3] -	500	mW

- [1] The minimum input voltage ratings may be exceeded if the input current ratings are observed.
 [2] The output voltage ratings may be exceeded if the output current ratings are observed.
 [3] For SO20 packages: above 70 °C the value of P_{tot} derates linearly with 8 mW/K.
 For (T)SSOP20 packages: above 60 °C the value of P_{tot} derates linearly with 5.5 mW/K.
 For DHVQFN20 packages: above 60 °C the value of P_{tot} derates linearly with 4.5 mW/K.

8. Recommended operating conditions

Table 5. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V_{CC}	supply voltage		1.65	-	3.6	V
		functional	1.2	-	-	V
V_I	input voltage		0	-	5.5	V
V_O	output voltage		0	-	V_{CC}	V

Table 5. Recommended operating conditions ...continued

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
T _{amb}	ambient temperature	in free air	-40	-	+125	°C
Δt/ΔV	input transition rise and fall rate	V _{CC} = 1.65 V to 2.7 V	0	-	20	ns/V
		V _{CC} = 2.7 V to 3.6 V	0	-	10	ns/V

9. Static characteristics

Table 6. Static characteristics

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

Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to +125 °C		Unit
			Min	Typ ^[1]	Max	Min	Max	
V _{IH}	HIGH-level input voltage	V _{CC} = 1.2 V	1.08	-	-	1.08	-	V
		V _{CC} = 1.65 V to 1.95 V	0.65 × V _{CC}	-	-	0.65 × V _{CC}	-	V
		V _{CC} = 2.3 V to 2.7 V	1.7	-	-	1.7	-	V
		V _{CC} = 2.7 V to 3.6 V	2.0	-	-	2.0	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 1.2 V	-	-	0.12	-	0.12	V
		V _{CC} = 1.65 V to 1.95 V	-	-	0.35 × V _{CC}	-	0.35 × V _{CC}	V
		V _{CC} = 2.3 V to 2.7 V	-	-	0.7	-	0.7	V
		V _{CC} = 2.7 V to 3.6 V	-	-	0.8	-	0.8	V
V _{OH}	HIGH-level output voltage	V _I = V _{IH} or V _{IL}						
		I _O = -100 μA; V _{CC} = 1.65 V to 3.6 V	V _{CC} - 0.2	-	-	V _{CC} - 0.3	-	V
		I _O = -4 mA; V _{CC} = 1.65 V	1.2	-	-	1.05	-	V
		I _O = -8 mA; V _{CC} = 2.3 V	1.8	-	-	1.65	-	V
		I _O = -12 mA; V _{CC} = 2.7 V	2.2	-	-	2.05	-	V
		I _O = -18 mA; V _{CC} = 3.0 V	2.4	-	-	2.25	-	V
V _{OL}	LOW-level output voltage	V _I = V _{IH} or V _{IL}						
		I _O = 100 μA; V _{CC} = 1.65 V to 3.6 V	-	-	0.2	-	0.3	V
		I _O = 4 mA; V _{CC} = 1.65 V	-	-	0.45	-	0.65	V
		I _O = 8 mA; V _{CC} = 2.3 V	-	-	0.6	-	0.8	V
		I _O = 12 mA; V _{CC} = 2.7 V	-	-	0.4	-	0.6	V
		I _O = 24 mA; V _{CC} = 3.0 V	-	-	0.55	-	0.8	V
I _I	input leakage current	V _{CC} = 3.6 V; V _I = 5.5 V or GND	-	±0.1	±5	-	±20	μA
I _{CC}	supply current	V _{CC} = 3.6 V; V _I = V _{CC} or GND; I _O = 0 A	-	0.1	10	-	40	μA
ΔI _{CC}	additional supply current	per input pin; V _{CC} = 2.7 V to 3.6 V; V _I = V _{CC} - 0.6 V; I _O = 0 A	-	5	500	-	5000	μA
C _I	input capacitance	V _{CC} = 0 V to 3.6 V; V _I = GND to V _{CC}	-	5.0	-	-	-	pF

[1] All typical values are measured at V_{CC} = 3.3 V (unless stated otherwise) and T_{amb} = 25 °C.

10. Dynamic characteristics

Table 7. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V). For test circuit see [Figure 8](#).

Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to +125 °C		Unit
			Min	Typ ^[1]	Max	Min	Max	
t _{pd}	propagation delay	CP to Qn; see Figure 5 ^[2]						
		V _{CC} = 1.2 V	-	18	-	-	-	ns
		V _{CC} = 1.65 V to 1.95 V	2.5	9.7	19.2	2.5	22.2	ns
		V _{CC} = 2.3 V to 2.7 V	1.8	4.9	9.9	1.8	11.4	ns
		V _{CC} = 2.7 V	1.5	4.5	8.4	1.5	10.5	ns
		V _{CC} = 3.0 V to 3.6 V	1.5	4.1	8.2	1.5	10.5	ns
t _{PHL}	HIGH to LOW propagation delay	MR to Qn; see Figure 6						
		V _{CC} = 1.2 V	-	18	-	-	-	ns
		V _{CC} = 1.65 V to 1.95 V	2.4	10.2	20.4	2.4	23.5	ns
		V _{CC} = 2.3 V to 2.7 V	1.7	5.2	10.5	1.7	12.1	ns
		V _{CC} = 2.7 V	1.5	4.7	8.9	1.5	11.5	ns
		V _{CC} = 3.0 V to 3.6 V	1.5	4.3	8.7	1.5	11.0	ns
t _w	pulse width	clock HIGH or LOW; see Figure 5						
		V _{CC} = 1.65 V to 1.95 V	6.0	-	-	6.0	-	ns
		V _{CC} = 2.3 V to 2.7 V	5.0	-	-	5.0	-	ns
		V _{CC} = 2.7 V	5.0	1.8	-	5.0	-	ns
		V _{CC} = 3.0 V to 3.6 V	4.0	1.2	-	4.0	-	ns
		master reset LOW; see Figure 6						
		V _{CC} = 1.65 V to 1.95 V	6.0	-	-	6.0	-	ns
		V _{CC} = 2.3 V to 2.7 V	5.0	-	-	5.0	-	ns
		V _{CC} = 2.7 V	5.0	1.7	-	5.0	-	ns
		V _{CC} = 3.0 V to 3.6 V	4.0	1.2	-	4.0	-	ns
t _{rec}	recovery time	MR to CP; see Figure 6						
		V _{CC} = 1.65 V to 1.95 V	2.0	-	-	2.0	-	ns
		V _{CC} = 2.3 V to 2.7 V	2.0	-	-	2.0	-	ns
		V _{CC} = 2.7 V	2.0	-1.0	-	2.0	-	ns
		V _{CC} = 3.0 V to 3.6 V	2.0	-1.0	-	2.0	-	ns
t _{su}	set-up time	Dn to CP; see Figure 7						
		V _{CC} = 1.65 V to 1.95 V	5.0	-	-	5.0	-	ns
		V _{CC} = 2.3 V to 2.7 V	3.5	-	-	3.5	-	ns
		V _{CC} = 2.7 V	3.0	1.0	-	3.0	-	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	0.0	-	1.0	-	ns
t _h	hold time	Dn to CP; see Figure 7						
		V _{CC} = 1.65 V to 1.95 V	3.0	-	-	3.0	-	ns
		V _{CC} = 2.3 V to 2.7 V	2.5	-	-	2.5	-	ns
		V _{CC} = 2.7 V	2.0	-0.2	-	2.0	-	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	0.0	-	1.0	-	ns

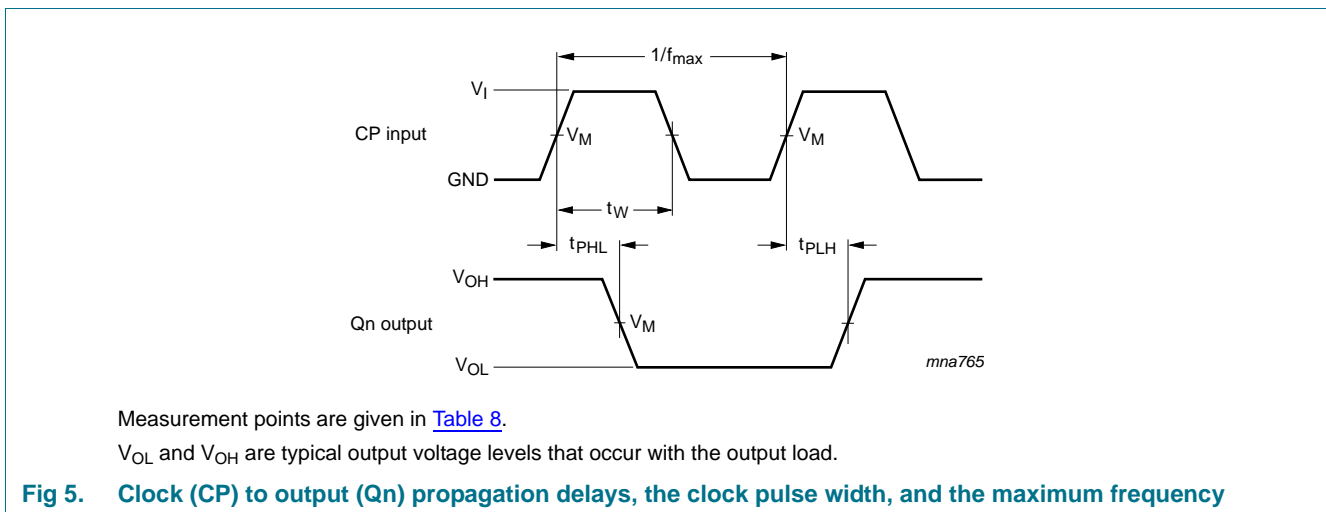
Table 7. Dynamic characteristics ...continued

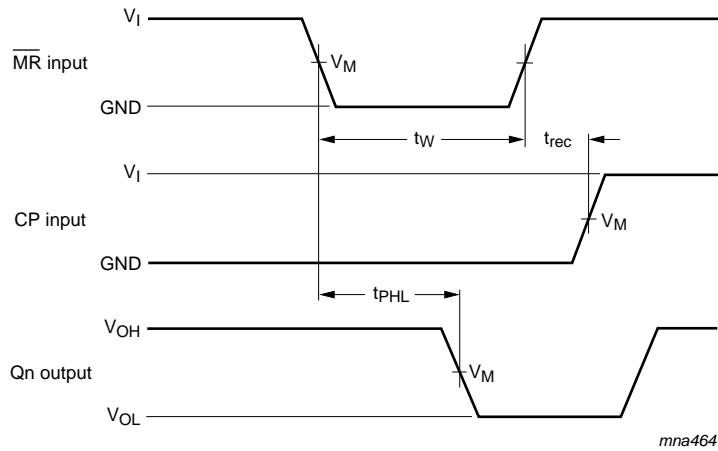
Voltages are referenced to GND (ground = 0 V). For test circuit see [Figure 8](#).

Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to +125 °C		Unit	
			Min	Typ ^[1]	Max	Min	Max		
f _{max}	maximum frequency	see Figure 5							
		V _{CC} = 1.65 V to 1.95 V	80	-	-	64	-	MHz	
		V _{CC} = 2.3 V to 2.7 V	100	-	-	80	-	MHz	
		V _{CC} = 2.7 V	150	-	-	150	-	MHz	
		V _{CC} = 3.0 V to 3.6 V	150	230	-	150	-	MHz	
t _{sk(o)}	output skew time	V _{CC} = 3.0 V to 3.6 V	[3]	-	-	1.0	-	1.5	ns
C _{PD}	power dissipation capacitance	per flip-flop; V _I = GND to V _{CC}	[4]						
		V _{CC} = 1.65 V to 1.95 V	-	14.0	-	-	-	pF	
		V _{CC} = 2.3 V to 2.7 V	-	17.7	-	-	-	pF	
		V _{CC} = 3.0 V to 3.6 V	-	21.0	-	-	-	pF	

- [1] Typical values are measured at T_{amb} = 25 °C and V_{CC} = 1.2 V, 1.8 V, 2.5 V, 2.7 V and 3.3 V respectively.
- [2] t_{pd} is the same as t_{PLH} and t_{PHL}.
- [3] Skew between any two outputs of the same package switching in the same direction. This parameter is guaranteed by design.
- [4] 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 Volt
 N = number of inputs switching
 Σ(C_L × V_{CC}² × f_o) = sum of the outputs

11. Waveforms

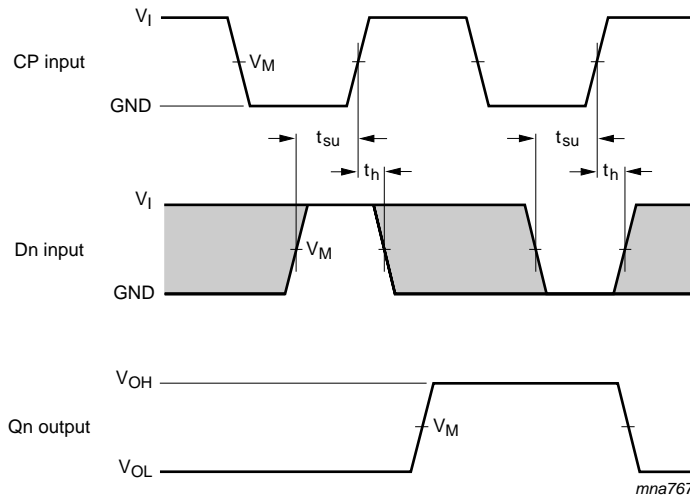




Measurement points are given in [Table 8](#).

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

Fig 6. Master reset (\overline{MR}) pulse width, the master reset to output (Q_n) propagation delays, and the master reset to clock (CP) recovery time



Measurement points are given in [Table 8](#).

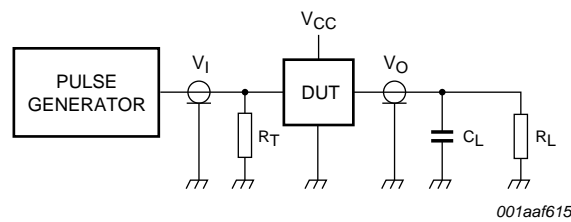
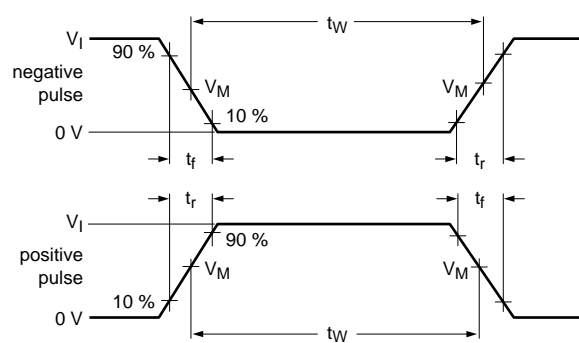
V_{OL} and V_{OH} are typical output voltage levels that occur with the output load.

The shaded areas indicate when the input is permitted to change for predictable output performance.

Fig 7. Data set-up and hold times for the data input (D_n)

Table 8. Measurement points

Supply voltage	Input		Output		
V _{CC}	V _I	V _M	V _M	V _X	V _Y
1.2 V	V _{CC}	0.5 × V _{CC}	0.5 × V _{CC}	V _{OL} + 0.15 V	V _{OH} - 0.15 V
1.65 V to 1.95 V	V _{CC}	0.5 × V _{CC}	0.5 × V _{CC}	V _{OL} + 0.15 V	V _{OH} - 0.15 V
2.3 V to 2.7 V	V _{CC}	0.5 × V _{CC}	0.5 × V _{CC}	V _{OL} + 0.15 V	V _{OH} - 0.15 V
2.7 V	2.7 V	1.5 V	1.5 V	V _{OL} + 0.3 V	V _{OH} - 0.3 V
3.0 V to 3.6 V	2.7 V	1.5 V	1.5 V	V _{OL} + 0.3 V	V _{OH} - 0.3 V



001aaf615

Test data is given in [Table 9](#).

Definitions for test circuit:

R_L = Load resistance.

C_L = Load capacitance including jig and probe capacitance.

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

Fig 8. Load circuitry for switching times

Table 9. Test data

Supply voltage	Input		Load		V _{EXT}		
	V _I	t _r , t _f	C _L	R _L	t _{PLH} , t _{PHL}	t _{PZL} , t _{PZL}	t _{PHZ} , t _{PZH}
1.2 V	V _{CC}	≤ 2 ns	30 pF	1 kΩ	open	2 × V _{CC}	GND
1.65 V to 1.95 V	V _{CC}	≤ 2 ns	30 pF	1 kΩ	open	2 × V _{CC}	GND
2.3 V to 2.7 V	V _{CC}	≤ 2 ns	30 pF	500 Ω	open	2 × V _{CC}	GND
2.7 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open	2 × V _{CC}	GND
3.0 V to 3.6 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open	2 × V _{CC}	GND

12. Package outline

SO20: plastic small outline package; 20 leads; body width 7.5 mm

SOT163-1

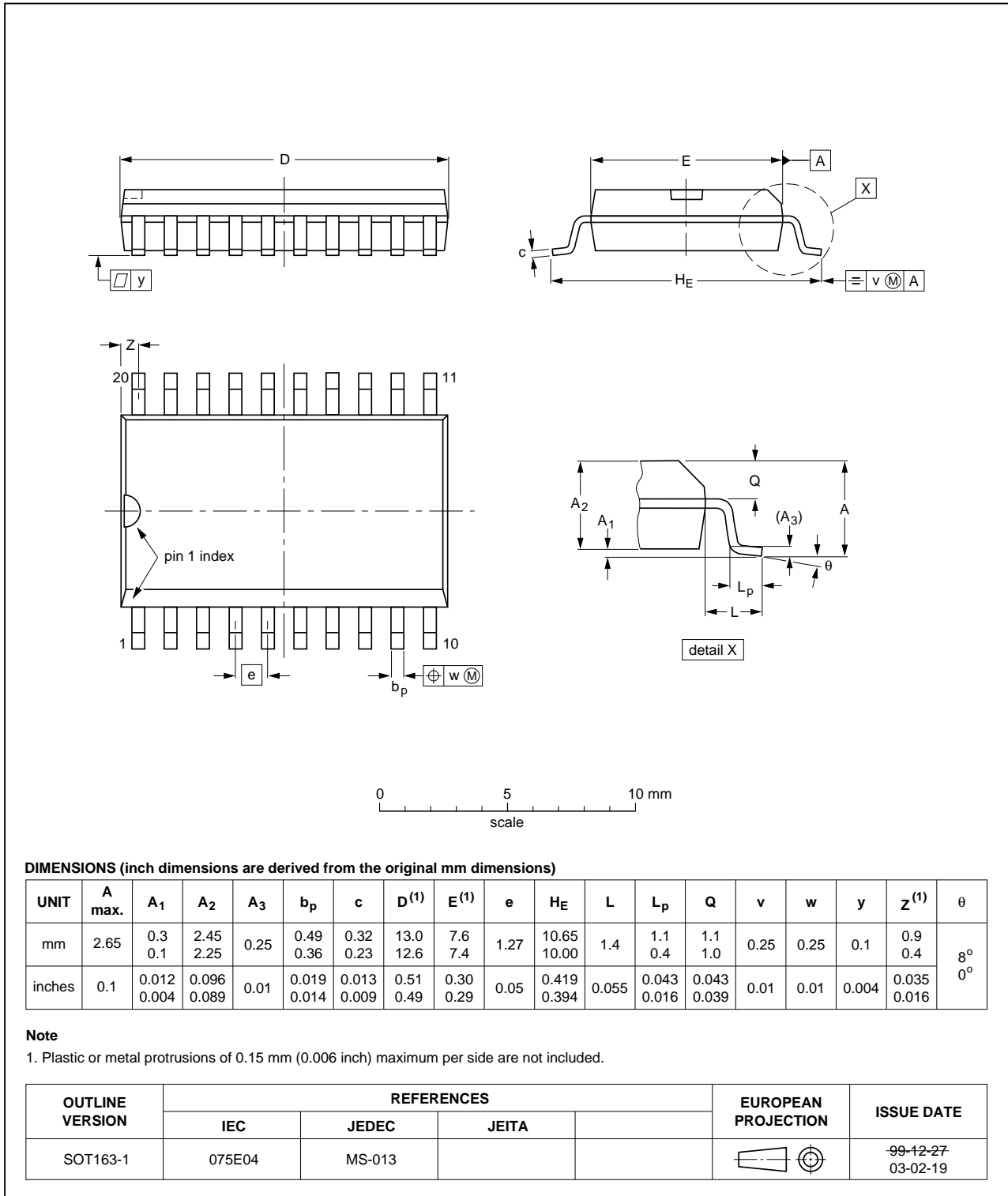


Fig 9. Package outline SOT163-1 (SO20)

SSOP20: plastic shrink small outline package; 20 leads; body width 5.3 mm

SOT339-1

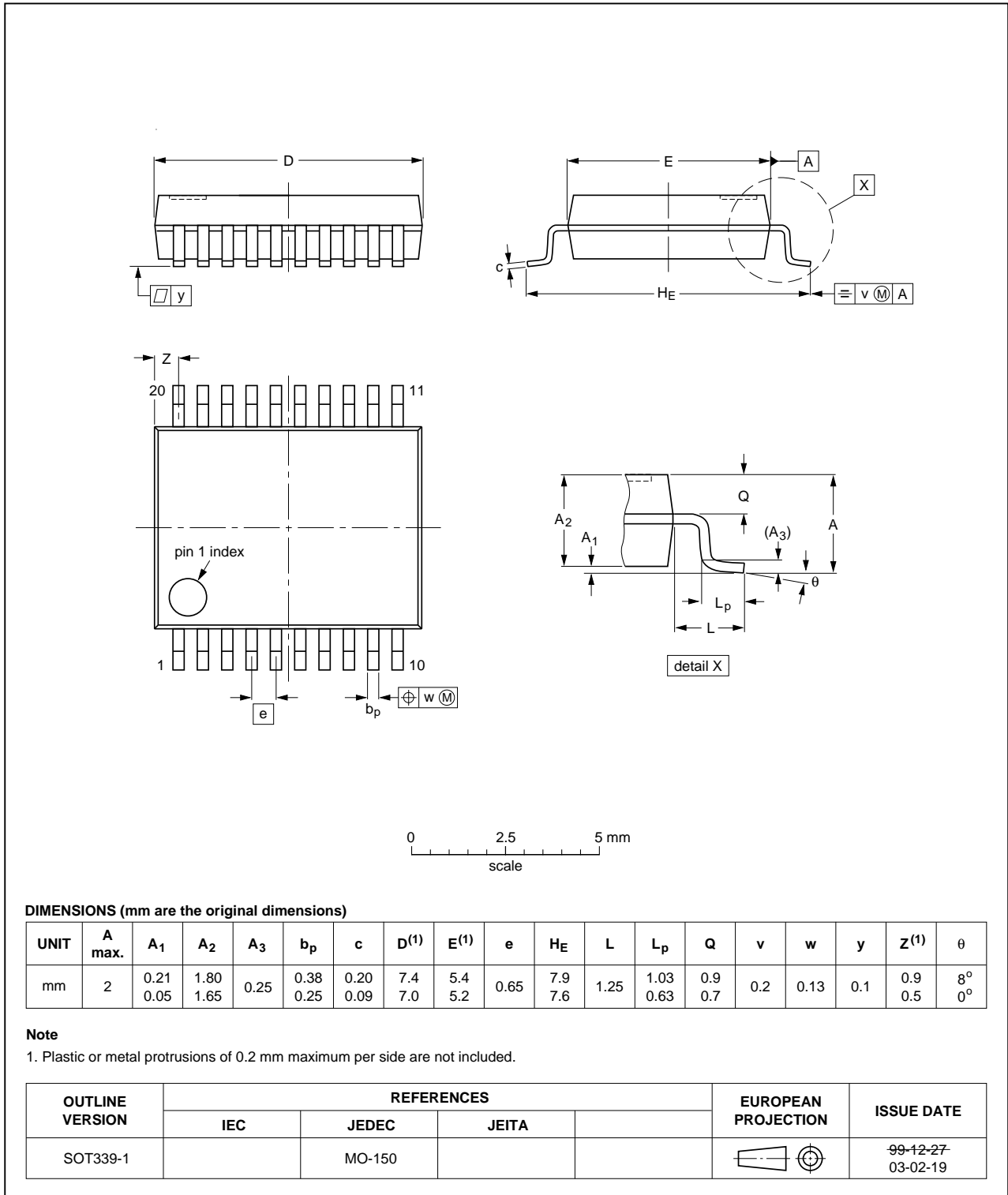


Fig 10. Package outline SOT339-1 (SSOP20)

TSSOP20: plastic thin shrink small outline package; 20 leads; body width 4.4 mm

SOT360-1

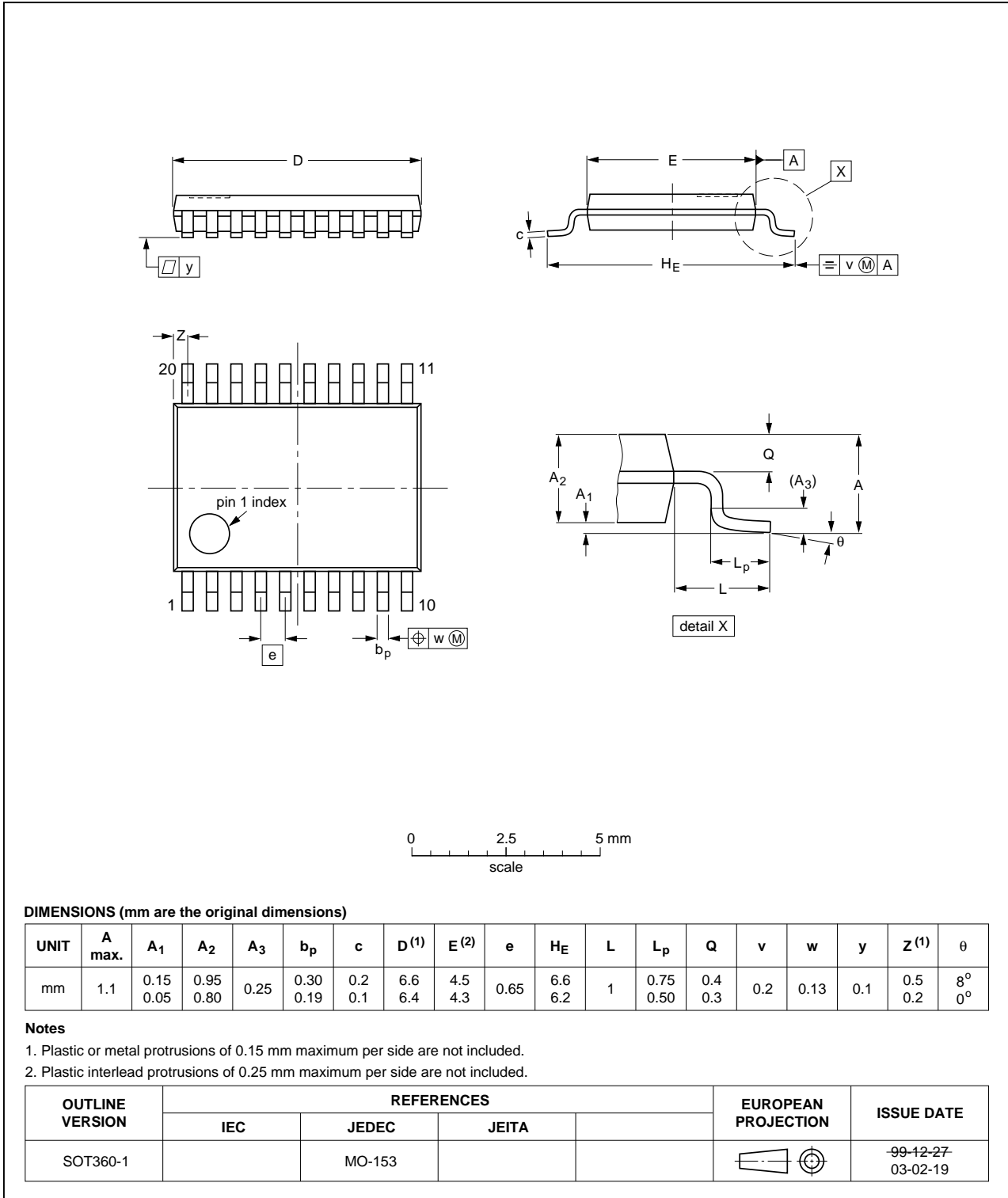


Fig 11. Package outline SOT360-1 (TSSOP20)

DHVQFN20: plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 20 terminals; body 2.5 x 4.5 x 0.85 mm

SOT764-1

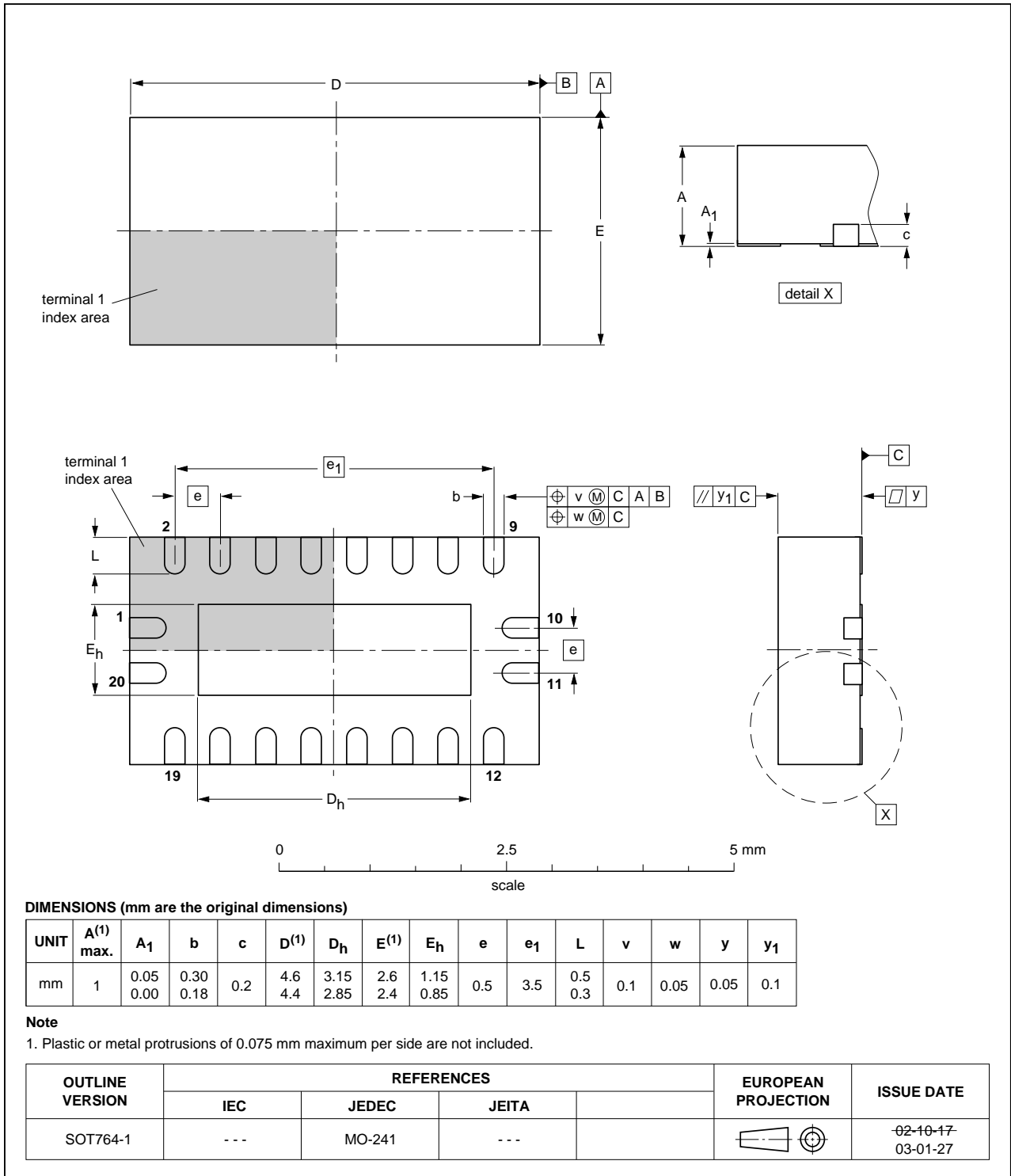


Fig 12. Package outline SOT764-1 (DHVQFN20)

13. Abbreviations

Table 10. Abbreviations

Acronym	Description
CDM	Charged Device Model
DUT	Device Under Test
ESD	ElectroStatic Discharge
HBM	Human Body Model
MM	Machine Model
TTL	Transistor-Transistor Logic

14. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74LVC273 v.6	20121231	Product data sheet	-	74LVC273 v.5
Modifications:	<ul style="list-style-type: none"> General description changed (errata). 			
74LVC273 v.5	20121206	Product data sheet	-	74LVC273 v.4
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. Table 4, Table 5, Table 6, Table 7, Table 8 and Table 9: values added for lower voltage ranges. 			
74LVC273 v.4	20040312	Product specification	-	74LVC273 v.3
74LVC273 v.3	20031030	Product specification	-	74LVC273 v.2
74LVC273 v.2	19980520	Product specification	-	74LVC273 v.1
74LVC273 v.1	19960606	Product specification	-	-

15. Legal information

15.1 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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