74HC245; 74HCT245

Octal bus transceiver; 3-state
Rev. 6 — 6 September 2021

Product data sheet

1. General description

The 74HC245; 74HCT245 is an 8-bit transceiver with 3-state outputs. The device features an output enable (\overline{OE}) and send/receive (DIR) for direction control. A HIGH on \overline{OE} 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 to 6.0 V
- CMOS low power dissipation
- · High noise immunity
- · Octal bidirectional bus interface
- · Non-inverting 3-state outputs
- Input levels:
 - For 74HC245: CMOS level
 - For 74HCT245: TTL level
- Complies with JEDEC standards
 - JESD8C (2.7 V to 3.6 V)
 - JESD7A (2.0 V to 6.0 V)
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level B
- 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

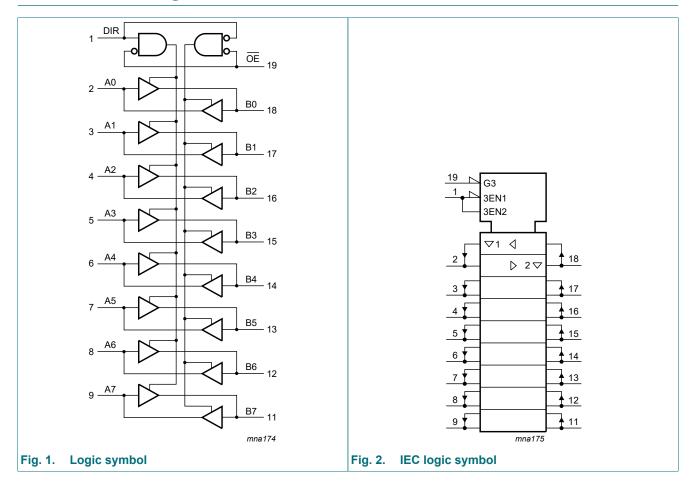
3. Ordering information

Table 1. Ordering information

Type number	Package			
	Temperature range	Name	Description	Version
74HC245D	-40 °C to +125 °C	SO20	plastic small outline package; 20 leads;	SOT163-1
74HCT245D			body width 7.5 mm	
74HC245PW	-40 °C to +125 °C	TSSOP20	plastic thin shrink small outline package;	SOT360-1
74HCT245PW			20 leads; body width 4.4 mm	
74HC245BQ	-40 °C to +125 °C	DHVQFN20	plastic dual in-line compatible thermal	SOT764-1
74HCT245BQ			enhanced very thin quad flat package; no leads; 20 terminals; body 2.5 × 4.5 × 0.85 mm	

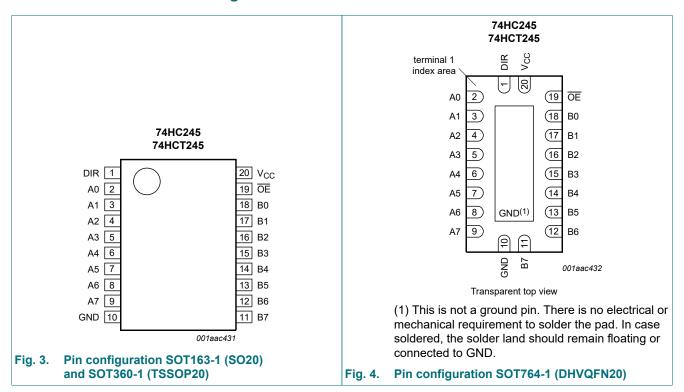


4. Functional diagram



5. Pinning information

5.1. Pinning



5.2. Pin description

Table 2. Pin description

Tubic 2. I ili ucacription		
Symbol	Pin	Description
DIR	1	direction control
A0, A1, A2, A3, A4, A5, A6, A7	2, 3, 4, 5, 6, 7, 8, 9	data input/output
GND	10	ground (0 V)
B7, B6, B5, B4, B3, B2, B1, B0	11, 12, 13, 14, 15, 16, 17, 18	data input/output
ŌE	19	output enable input (active LOW)
V _{CC}	20	supply voltage

6. Functional description

Table 3. Function table

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

Input		Input/output					
OE DIR		An	Bn				
L	L	A = B	input				
L	Н	input	B = A				
Н	X	Z	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 V or V_{I} > V_{CC} + 0.5 V	-	±20	mA
I _{OK}	output clamping current	V_{O} < -0.5 V or V_{O} > V_{CC} + 0.5 V	-	±20	mA
Io	output current	$-0.5 \text{ V} < \text{V}_{\text{O}} < \text{V}_{\text{CC}} + 0.5 \text{ V}$	-	±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]	1] -	500	mW

^[1] For SOT163-1 (SO20) package: P_{tot} derates linearly with 12.3 mW/K above 109 °C. For SOT360-1 (TSSOP20) package: P_{tot} derates linearly with 10.0 mW/K above 100 °C. For SOT764-1 (DHVQFN20) package: P_{tot} derates linearly with 12.9 mW/K above 111 °C.

8. Recommended operating conditions

Table 5. Recommended operating conditions

Symbol	Parameter	Conditions		74HC245	5	7	'4HCT24	5	Unit
			Min	Тур	Max	Min	Тур	Max	1
V _{CC}	supply voltage		2.0	5.0	6.0	4.5	5.0	5.5	V
VI	input voltage		0	-	V _{CC}	0	-	V _{CC}	V
Vo	output voltage		0	-	V _{CC}	0	-	V _{CC}	V
Δt/ΔV	input transition rise and	V _{CC} = 2.0 V	-	-	625	-	-	-	ns/V
	fall rate	V _{CC} = 4.5 V	-	1.67	139	-	1.67	139	ns/V
		V _{CC} = 6.0 V	-	-	83	-	-	-	ns/V
T _{amb}	ambient temperature		-40	+25	+125	-40	+25	+125	°C

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	
74HC24	5								'	1
V _{IH}	HIGH-level	V _{CC} = 2.0 V	1.5	1.2	-	1.5	-	1.5	-	V
	input voltage	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	V _{CC} = 2.0 V	-	0.8	0.5	-	0.5	-	0.5	V
	input voltage	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	V _I = V _{IH} or V _{IL}								
	output voltage	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 = -6.0 mA; V _{CC} = 4.5 V	3.98	4.32	-	3.84	-	3.7	-	V
		I _O = -7.8 mA; V _{CC} = 6.0 V	5.48	5.81	-	5.34	-	5.2	-	V
V _{OL}	LOW-level	$V_I = V_{IH}$ or V_{IL}								
	output voltage	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 = 6.0 mA; V _{CC} = 4.5 V	-	0.15	0.26	-	0.33	-	0.4	V
		I _O = 7.8 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; $V_{CC} = 6.0 \text{ V}$	-	-	±0.1	-	±1.0	-	±1.0	μΑ
l _{OZ}	OFF-state output current	$V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 6.0$ V; $V_O = V_{CC}$ or GND	-	-	±0.5	-	±5.0	-	±10	μΑ
I _{CC}	supply current	V _I = V _{CC} or GND; I _O = 0 A; V _{CC} = 6.0 V	-	-	8.0	-	80	-	160	μΑ
C _I	input capacitance		-	3.5	-	-	-	-	-	pF
C _{I/O}	input/output capacitance		-	10	-	-	-	-	-	pF

Symbol	Parameter	Conditions		25 °C		-40 °C to	o +85 °C	-40 °C to	+125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
74HCT2	45						I			1
V _{IH}	HIGH-level input voltage	V _{CC} = 4.5 V to 5.5 V	2.0	1.6	-	2.0	-	2.0	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 4.5 V to 5.5 V	-	1.2	0.8	-	0.8	-	0.8	V
V _{OH}	HIGH-level	$V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 4.5 V$								
	output voltage	Ι _Ο = -20 μΑ	4.4	4.5	-	4.4	-	4.4	-	V
		I _O = -6 mA	3.98	4.32	-	3.84	-	3.7	-	V
V _{OL}	LOW-level	$V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 4.5 V$								
	output voltage	Ι _Ο = 20 μΑ	-	0	0.1	-	0.1	-	0.1	V
		I _O = 6.0 mA	-	0.15	0.26	-	0.33	-	0.4	V
I _I	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$	-	-	±0.1	-	±1.0	-	±1.0	μΑ
l _{OZ}	OFF-state output current	$V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 5.5$ V; $V_O = V_{CC}$ or GND	-	-	±0.5	-	±5.0	-	±10	μΑ
I _{CC}	supply current	V _I = V _{CC} or GND; V _{CC} = 5.5 V; I _O = 0 A	-	-	8.0	-	80	-	160	μΑ
ΔI _{CC}	additional supply current	$V_1 = V_{CC} - 2.1 \text{ V}$; other inputs at V_{CC} or GND; $V_{CC} = 4.5 \text{ V}$ to 5.5 V ; $I_O = 0 \text{ A}$								
		An or Bn inputs	-	40	144	-	180	-	196	μΑ
		OE input	-	150	540	-	675	-	735	μΑ
		DIR input	-	90	324	-	405	-	441	μΑ
C _I	input capacitance		-	3.5	-	-	-	-	-	pF
C _{I/O}	input/output capacitance		-	10	-	-	-	-	-	pF

10. Dynamic characteristics

Table 7. Dynamic characteristics

GND = 0 V; for test circuit see Fig. 7.

Symbol	Parameter	Conditions			25 °C		-40 °C t	o +85 °C	-40 °C to	+125 °C	Unit
				Min	Тур	Max	Min	Max	Min	Max	1
74HC24	5									-	
t _{pd}	propagation delay	An to Bn or Bn to An; see Fig. 5	[1]								
		V _{CC} = 2.0 V		-	25	90	-	115	-	135	ns
		V _{CC} = 4.5 V		-	9	18	-	23	-	27	ns
		$V_{CC} = 5.0 \text{ V}; C_L = 15 \text{ pF}$		-	7	-	-	-	-	-	ns
		V _{CC} = 6.0 V		-	7	15	-	20	-	23	ns
t _{en}	enable time	OE to An or Bn; see Fig. 6	[2]								
		V _{CC} = 2.0 V		-	30	150	-	190	-	225	ns
		V _{CC} = 4.5 V		-	11	30	-	38	-	45	ns
		V _{CC} = 6.0 V		-	9	26	-	33	-	38	ns
t _{dis}	disable time	OE to An or Bn; see Fig. 6	[3]								
		V _{CC} = 2.0 V		-	41	150	-	190	-	225	ns
		V _{CC} = 4.5 V		-	15	30	-	38	-	45	ns
		V _{CC} = 6.0 V		-	12	26	-	33	-	38	ns
t _t	transition time	see Fig. 5	[4]								
		V _{CC} = 2.0 V		-	14	60	-	75	-	90	ns
		V _{CC} = 4.5 V		-	5	12	-	15	-	18	ns
		V _{CC} = 6.0 V		-	4	10	-	13	-	15	ns
C _{PD}	power dissipation capacitance	per transceiver; V _I = GND to V _{CC}	[5]	-	30	-	-	-	-	-	pF
74HCT2	45						I		I		
t _{pd}	propagation delay	An to Bn or Bn to An; see Fig. 5	[1]								
		V _{CC} = 4.5 V		-	12	22	-	28	-	33	ns
		$V_{CC} = 5.0 \text{ V}; C_L = 15 \text{ pF}$		-	10	-	-	-	-	-	ns
t _{en}	enable time	OE to An or Bn; see Fig. 6	[2]	-	16	30	-	38	-	45	ns
t _{dis}	disable time	OE to An or Bn; see Fig. 6	[3]	-	16	30	-	38	-	45	ns
t _t	transition time	V _{CC} = 4.5 V; see <u>Fig. 5</u>	[4]	-	5	12	-	15	-	18	ns
C _{PD}	power dissipation capacitance	per transceiver; V _I = GND to V _{CC} - 1.5 V	[5]	-	30	-	-	-	-	-	pF

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

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

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

 t_t is the same as t_{THL} and t_{TLH} . C_{PD} is used to determine the dynamic power dissipation (P_D in μW):

 $P_D = C_{PD} x V_{CC}^2 x f_i x N + \sum (C_L x V_{CC}^2 x f_o)$ 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; $\sum (C_L \times V_{CC})^2 \times f_0$ = sum of outputs.

10.1. Waveforms and test circuit

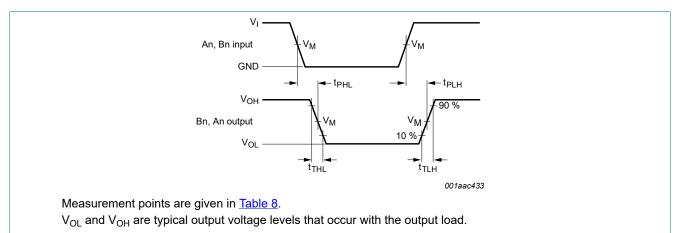


Fig. 5. Input (An, Bn) to output (Bn, An) propagation delays and output transition times

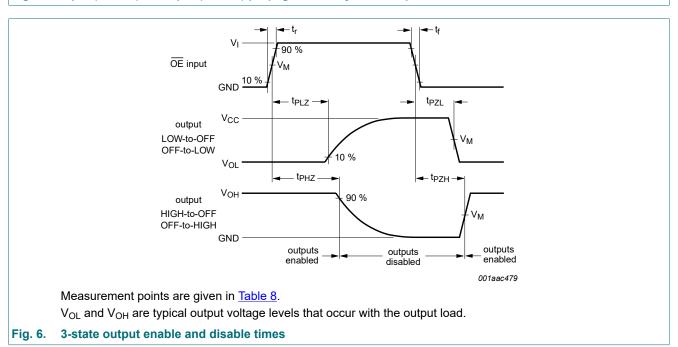
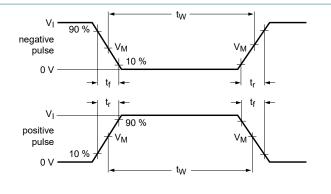
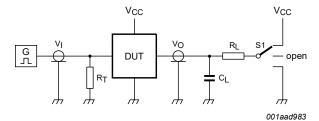


Table 8. Measurement points

Туре	Input	Output
	V _M	V _M
74HC245	0.5V _{CC}	0.5V _{CC}
74HCT245	1.3 V	1.3 V





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_L = Load capacitance including jig and probe capacitance.

R_L = Load resistance.

S1 = Test selection switch.

Fig. 7. Test circuit for measuring switching times

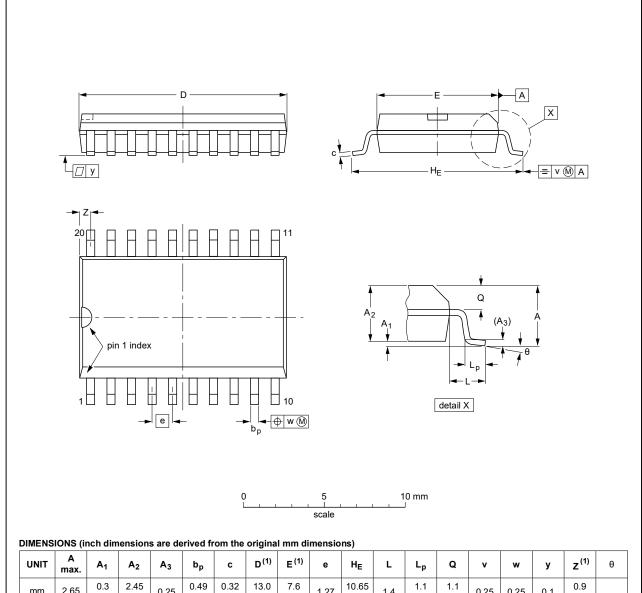
Table 9. Test data

Туре	Input		Load		S1 position			
	V_{l}	t _r , t _f	CL	R_L	t _{PHL} , t _{PLH}	t _{PZH} , t _{PHZ}	t_{PZL}, t_{PLZ}	
74HC245	V _{CC}	6 ns	15 pF, 50 pF	1 kΩ	open	GND	V _{CC}	
74HCT245	3 V	6 ns	15 pF, 50 pF	1 kΩ	open	GND	V _{CC}	

11. Package outline

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

SOT163-1



UNIT	A max.	A ₁	A ₂	A ₃	bp	С	D ⁽¹⁾	E ⁽¹⁾	е	HE	L	Lp	Q	v	w	у	z ⁽¹⁾	θ
mm	2.65	0.3 0.1	2.45 2.25	0.25	0.49 0.36	0.32 0.23	13.0 12.6	7.6 7.4	1.27	10.65 10.00	1.4	1.1 0.4	1.1 1.0	0.25	0.25	0.1	0.9 0.4	8°
inches	0.1	0.012 0.004	0.096 0.089	0.01	0.019 0.014	0.013 0.009	0.51 0.49	0.30 0.29	0.05	0.419 0.394	0.055	0.043 0.016	0.043 0.039	0.01	0.01	0.004	0.035 0.016	0°

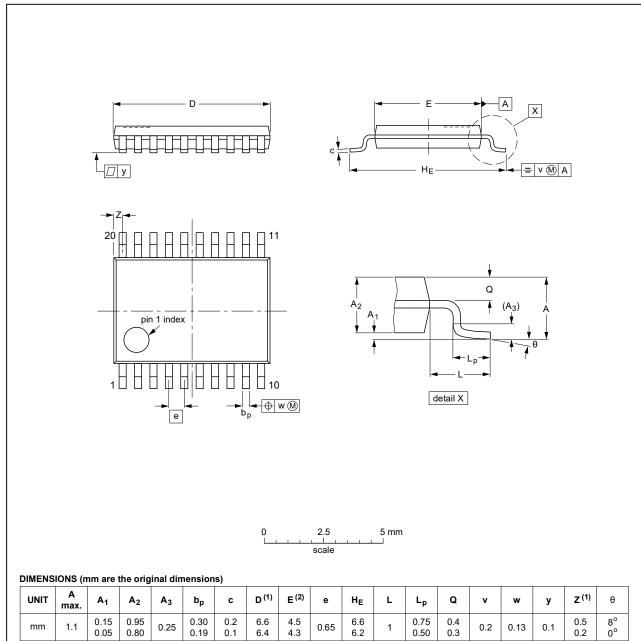
1. Plastic or metal protrusions of 0.15 mm (0.006 inch) maximum per side are not included.

OUTLINE		EUROPEAN	ISSUE DATE		
VERSION	IEC	JEDEC	JEITA	PROJECTION	ISSUE DATE
SOT163-1	075E04	MS-013			99-12-27 03-02-19

Fig. 8. Package outline SOT163-1 (SO20)

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

SOT360-1



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		REFER	ENCES	EUROPEAN	ISSUE DATE
VERSION	IEC	JEDEC	JEITA	PROJECTION	ISSUE DATE
SOT360-1		MO-153			99-12-27 03-02-19

Fig. 9. Package outline SOT360-1 (TSSOP20)

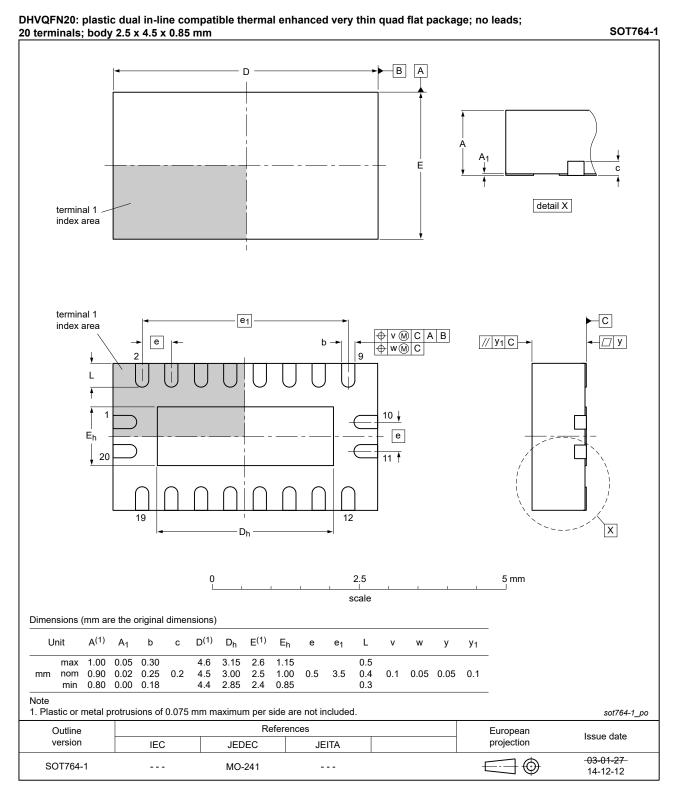


Fig. 10. Package outline SOT764-1 (DHVQFN20)

Product data sheet

12. Abbreviations

Table 10. Abbreviations

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

13. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74HC_HCT245 v.6	20210906	Product data sheet	-	74HC_HCT245 v.5
Modifications:	Types 74HC Section 2 up	C245DB and 74HCT245DB odated.	(SOT339-1) were	e removed.
74HC_HCT245 v.5	20200714	Product data sheet	-	74HC_HCT245 v.4
Modifications:	guidelines o Legal texts	of this data sheet has been of Nexperia. have been adapted to the r rating values for P _{tot} total p	new company nar	ne where appropriate.
74HC_HCT245 v.4	20160226	Product data sheet	-	74HC_HCT245 v.3
Modifications:	Type number	ers 74HC245N and 74HCT	245N (SOT146-1) removed.
74HC_HCT245 v.3	20050131	Product data sheet	-	74HC_HCT245_CNV v.2
Modifications:	information • <u>Section 3</u> "C	of this data sheet is redesion standard of Philips Semico Ordering information", <u>Secti</u> utline" are modified to inclu	onductors i <u>on 5</u> "Pinning info	
74HC_HCT245_CNV v.2	19930930	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.
Product [short] data sheet	Production	This document contains the product specification.

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- [2] The term 'short data sheet' is explained in section "Definitions".
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