16-bit transceiver with direction pin; 3-state Rev. 6 — 5 August 2021

Product data sheet

1. General description

The 74ALVC16245; 74ALVCH16245 is a 16-bit transceiver with 3-state outputs. The device can be used as two 8-bit transceivers or one 16-bit transceiver. The device features two output enables (1 \overline{OE} and 2 \overline{OE}) each controlling eight outputs, and two send/receive (1DIR and 2DIR) inputs for direction control. A HIGH on n \overline{OE} causes the outputs to assume a high-impedance OFF-state. This device is fully specified for partial power down applications using I_{OFF}. The I_{OFF} circuitry disables the output, preventing the potentially damaging backflow current through the device when it is powered down.

The 74ALVCH16245 has an active bushold circuitry which is provided to hold unused or floating data inputs at a valid logic level. This feature eliminates the need for external pull-up or pull-down resistors.

2. Features and benefits

- Wide supply voltage range from 1.2 V to 3.6 V
- CMOS low power consumption
- MULTIBYTE flow-through standard pin-out architecture
- Low inductance multiple V_{CC} and GND pins for minimize noise and ground bounce
- Overvoltage tolerant inputs to 5.5 V
- Direct interface with TTL levels
- I_{OFF} circuitry provides partial Power-down mode operation
- All data inputs have bushold (74ALVCH16245 only)
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level B
- Output drive capability 50 Ω transmission lines at 85 °C
- Current drive ±24 mA at V_{CC} = 3.0 V.
- · Complies with JEDEC standards:
 - JESD8-5 (2.3 V to 2.7 V)
 - JESD8B/JESD36 (2.7 V to 3.6 V)
- ESD protection:
 - HBM ANSI/ESDA/JEDEC JS-001 exceeds 2000 V
 - CDM JESD22-C101E exceeds 1000 V

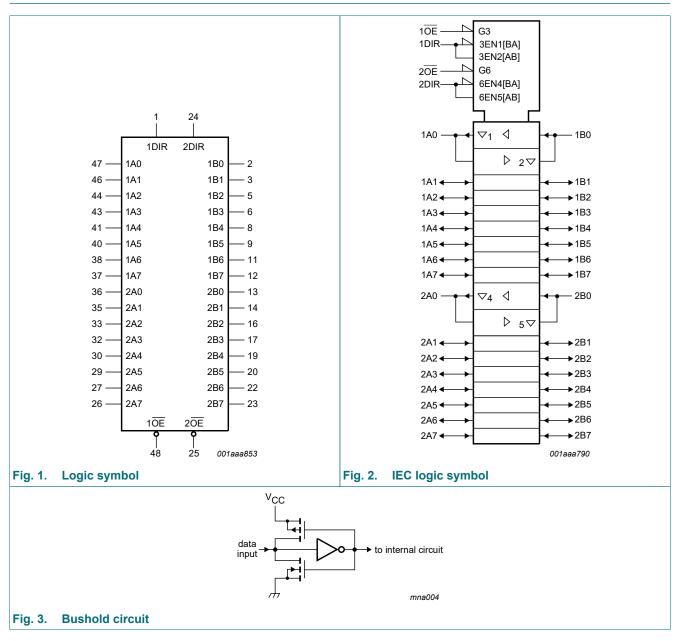
3. Ordering information

| Table 1. Ordering information | | | | | | | | |
|-------------------------------|-------------------|---------|--|----------|--|--|--|--|
| Type number Package | | | | | | | | |
| | Temperature range | Name | Description | Version | | | | |
| 74ALVC16245DGG | -40 °C to +85 °C | TSSOP48 | plastic thin shrink small outline package; | SOT362-1 | | | | |
| 74ALVCH16245DGG | | | 48 leads; body width 6.1 mm | | | | | |

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16-bit transceiver with direction pin; 3-state

4. Functional diagram

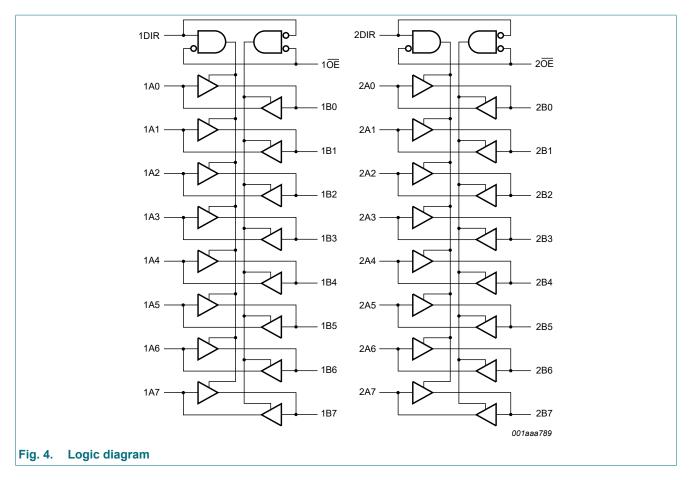


Product data sheet

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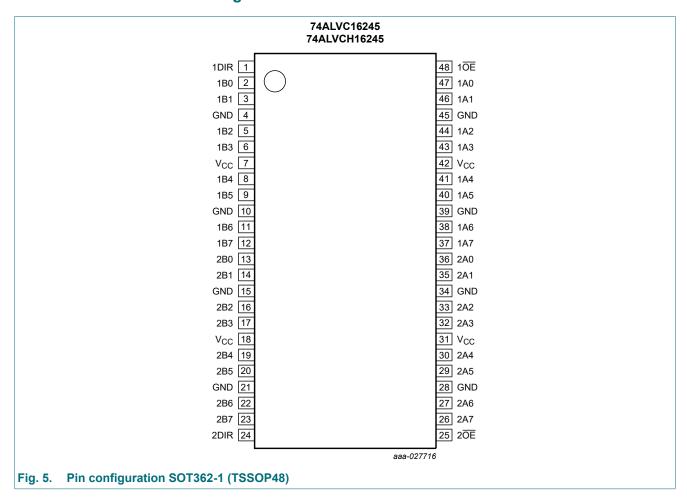
74ALVC16245; 74ALVCH16245

16-bit transceiver with direction pin; 3-state



5. Pinning information

5.1. Pinning



5.2. Pin description

Table 2. Pin description

| Symbol | Pin | Description |
|--|--------------------------------|----------------------------------|
| 1DIR, 2DIR | 1, 24 | direction control inputs |
| 1B0, 1B1, 1B2, 1B3, 1B4, 1B5, 1B6, 1B7 | 2, 3, 5, 6, 8, 9, 11, 12 | data output or input |
| GND | 4, 10, 15, 21, 28, 34, 39, 45 | ground (0 V) |
| V _{CC} | 7, 18, 31, 42 | positive supply voltage |
| 2B0, 2B1, 2B2, 2B3, 2B4, 2B5, 2B6, 2B7 | 13, 14, 16, 17, 19, 20, 22, 23 | data output or input |
| 10E, 20E | 48, 25 | output enable input (active LOW) |
| 2A0, 2A1, 2A2, 2A3, 2A4, 2A5, 2A6, 2A7 | 36, 35, 33, 32, 30, 29, 27, 26 | data input or output |
| 1A0, 1A1, 1A2, 1A3, 1A4, 1A5, 1A6, 1A7 | 47, 46, 44, 43, 41, 40, 38, 37 | data input or output |

6. Functional description

Table 3. Function table

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

| Input | | Input or output | | | |
|----------|---|------------------|------------------|--|--|
| nŌE nDIR | | nAn | nBn | | |
| L | L | output nAn = nBn | input | | |
| L | Н | input | output nBn = nAn | | |
| Н | Х | 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 | +4.6 | V |
| VI | input voltage | 74ALVCH16245; data inputs [1] | -0.5 | V _{CC} + 0.5 | V |
| | | 74ALVC16245; data inputs [1] | -0.5 | +4.6 | V |
| | | control pins [1] | -0.5 | +4.6 | V |
| Vo | output voltage | [1] | -0.5 | V _{CC} + 0.5 | V |
| I _{IK} | input clamping current | V _I < 0 V | -50 | - | mA |
| I _{OK} | output clamping current | $V_{\rm O}$ > $V_{\rm CC}$ or $V_{\rm O}$ < 0 V | - | ±50 | mA |
| I _O | output current | $V_{O} = 0 V \text{ to } V_{CC}$ | - | ±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 +85 °C | - | 500 | mW |

[1] The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

8. Recommended operating conditions

Table 5. Recommended operating conditions

| Symbol | Parameter | Conditions | Min | Тур | Мах | Unit |
|------------------|-------------------------------------|----------------------------------|-----|-----|-----------------|------|
| V _{CC} | supply voltage | maximum speed performance | | | | |
| | | C _L = 30 pF | 2.3 | - | 2.7 | V |
| | | C _L = 50 pF | 3.0 | - | 3.6 | V |
| | | low-voltage applications | 1.2 | - | 3.6 | V |
| VI | input voltage | | 0 | - | V _{CC} | V |
| Vo | output voltage | | 0 | - | V _{CC} | V |
| T _{amb} | ambient temperature | | -40 | - | +85 | °C |
| Δt/ΔV | input transition rise and fall rate | V _{CC} = 2.3 V to 3.0 V | - | - | 20 | ns/V |
| | | V _{CC} = 3.0 V to 3.6 V | - | - | 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 | | Min | Typ <mark>[1]</mark> | Мах | Unit |
|-----------------------|------------------------------------|--|-----|-----------------------|------------------------|------|------|
| T _{amb} = -4 | 0 °C to +85 °C | | | | | | |
| V _{IH} | HIGH-level | V _{CC} = 2.3 V to 2.7 V | | 1.7 | 1.2 | - | V |
| | input voltage | V _{CC} = 2.7 V to 3.6 V | | 2.0 | 1.5 | - | V |
| VIL | LOW-level | V _{CC} = 2.3 V to 2.7 V | | - | 1.2 | 0.7 | V |
| | input voltage | V _{CC} = 2.7 V to 3.6 V | | - | 1.5 | 0.8 | V |
| V _{OH} | HIGH-level | $V_{I} = V_{IH} \text{ or } V_{IL}$ | | | | | |
| | output voltage | I_{O} = -100 µA; V_{CC} = 2.3 V to 3.6 V | | V _{CC} - 0.2 | V _{CC} | - | V |
| | | $I_{\rm O}$ = -6 mA; $V_{\rm CC}$ = 2.3 V | | V _{CC} - 0.3 | V _{CC} - 0.08 | - | V |
| | | I _O = -12 mA; V _{CC} = 2.3 V | | V _{CC} - 0.6 | V _{CC} - 0.26 | - | V |
| | | I _O = -12 mA; V _{CC} = 2.7 V | | V _{CC} - 0.5 | V _{CC} - 0.14 | - | V |
| | | I _O = -12 mA; V _{CC} = 3.0 V | | V _{CC} - 0.6 | V _{CC} - 0.09 | - | V |
| | | I _O = -24 mA; V _{CC} = 3.0 V | | V _{CC} - 1.0 | V _{CC} - 0.28 | - | V |
| V _{OL} | LOW-level | V _I = V _{IH} or V _{IL} | | | | | |
| | output voltage | I_{O} = 100 µA; V_{CC} = 2.3 V to 3.6 V | | - | GND | 0.20 | V |
| | | I _O = 6 mA; V _{CC} = 2.3 V | | - | 0.07 | 0.40 | V |
| | | I _O = 12 mA; V _{CC} = 2.3 V | | - | 0.15 | 0.70 | V |
| | | I _O = 12 mA; V _{CC} = 2.7 V | | - | 0.14 | 0.40 | V |
| | | I _O = 24 mA; V _{CC} = 3.0 V | | - | 0.27 | 0.55 | V |
| I | input leakage current | V_{CC} = 2.3 V to 3.6 V; V_{I} = V_{CC} or GND | | - | 0.1 | 5 | μA |
| I _{OZ} | OFF-state output current | V_{CC} = 2.3 V to 3.6 V; V _I = V _{IH} or V _{IL} ; V _O = V _{CC} or GND | | - | 0.1 | 10 | μA |
| I _{CC} | supply current | V_{CC} = 2.3 V to 3.6 V; V _I = V _{CC} or GND; I _O = 0 A | | - | 0.2 | 40 | μA |
| ΔI _{CC} | additional supply current | 74ALVCH16245; per data I/O pin; V _{CC} = 2.3 V to 3.6 V; V _I = V _{CC} - 0.6 V; I _O = 0 A | | - | 150 | 750 | μA |
| I _{BHL} | bus hold LOW | V _{CC} = 2.3 V; V _I = 0.7 V | [2] | 45 | - | - | μA |
| | current | V _{CC} = 3.0 V; V _I = 0.8 V | [2] | 75 | 150 | - | μA |
| I _{BHH} | bus hold HIGH | V _{CC} = 2.3 V; V _I = 1.7 V | [2] | -45 | - | - | μA |
| current | | V _{CC} = 3.0 V; V _I = 2.0 V | [2] | -75 | -175 | - | μA |
| I _{BHLO} | bus hold LOW overdrive current | V _{CC} = 3.6 V | [2] | 500 | - | - | μA |
| I _{BHHO} | bus hold HIGH overdrive current | V _{CC} = 3.6 V | [2] | -500 | - | - | μA |
| CI | input capacitance | | | - | 4.0 | - | pF |
| C _{I/O} | input/output capacitance | | | - | 8.0 | - | pF |

[1] All typical values are measured at T_{amb} = 25 °C.

[2] Valid for data inputs of bushold parts.

10. Dynamic characteristics

Table 7. Dynamic characteristics

At recommended operating conditions; voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 8.

| Symbol | Parameter | Conditions | Min | Typ <mark>[1]</mark> | Мах | Unit |
|-----------------------|-------------------|---|-----|----------------------|-----|------|
| T _{amb} = -4 | 0 °C to +85 °C | | | | | _ |
| t _{pd} | propagation delay | nAn to nBn; nBn to nAn; see Fig. 6 [2] | | | | |
| | | V _{CC} = 2.3 V to 2.7 V | 1.0 | 2.0 | 3.7 | ns |
| | | V _{CC} = 2.7 V | 1.0 | 2.1 | 3.6 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 1.0 | 1.9 | 3.0 | ns |
| t _{en} | enable time | nOE to nAn; nOE to nBn; see Fig. 7 [3] | | | | |
| | | V _{CC} = 2.3 V to 2.7 V | 1.0 | 2.7 | 5.7 | ns |
| | | V _{CC} = 2.7 V | 1.0 | 3.0 | 5.4 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 1.0 | 2.3 | 4.4 | ns |
| t _{dis} | disable time | nOE to nAn; nOE to nBn; see Fig. 7 [4] | | | | |
| | | V _{CC} = 2.3 V to 2.7 V | 1.0 | 2.2 | 5.2 | ns |
| | | V _{CC} = 2.7 V | 1.0 | 3.1 | 4.6 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 1.0 | 2.8 | 4.1 | ns |
| C _{PD} | power dissipation | per buffer; $V_I = GND$ to V_{CC} [5] | | | | |
| | capacitance | outputs enabled | - | 29 | - | pF |
| | | outputs disabled | - | 5 | - | pF |

[1] Typical values are measured at T_{amb} = 25 °C Typical values for V_{CC} = 2.3 V to 2.7 V are measured at V_{CC} = 2.5 V. Typical values for V_{CC} = 3.0 V to 3.6 V are measured at V_{CC} = 3.3 V.

 t_{pd} is the same as t_{PLH} and t_{PHL} . [2]

 \dot{t}_{en} is the same as t_{PZL} and t_{PZH} . [3]

[4]

 t_{dis} is the same as t_{PLZ} and t_{PHZ} . C_{PD} is used to determine the dynamic power dissipation (P_D in μ W). [5] $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \sum (C_L \times V_{CC}^2 \times f_o)$ where:

 f_i = input frequency in MHz;

f_o = output frequency in MHz;

C_L = output load capacitance in pF;

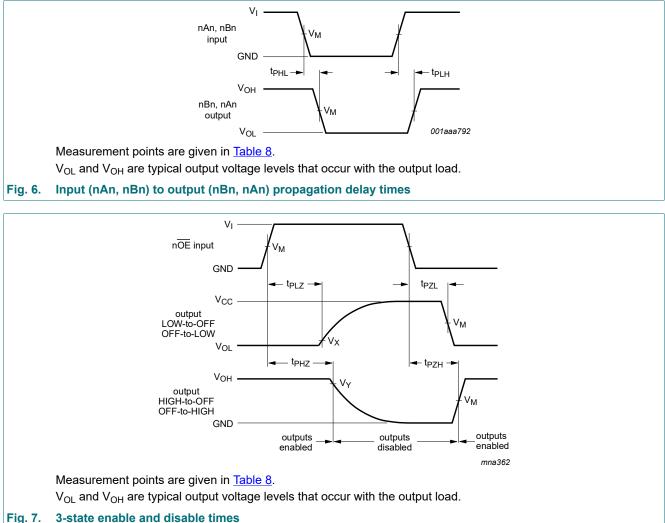
V_{CC} = supply voltage in Volts;

N = total load switching outputs;

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

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10.1. Waveforms and test circuit



| 5 | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | |

| Table 8. Measurement points | | | | | | | | | |
|-----------------------------|-----------------------|-----------------------|--------------------------|--------------------------|--|--|--|--|--|
| Supply voltage Input Output | | | | | | | | | |
| V _{cc} | V _M | V _M | V _X | V _Y | | | | | |
| < 2.7 V | 0.5 × V _{CC} | 0.5 × V _{CC} | V _{OL} + 0.15 V | V _{OH} - 0.15 V | | | | | |
| ≥ 2.7 V | 1.5 V | 1.5 V | V _{OL} + 0.3 V | V _{OH} - 0.3 V | | | | | |

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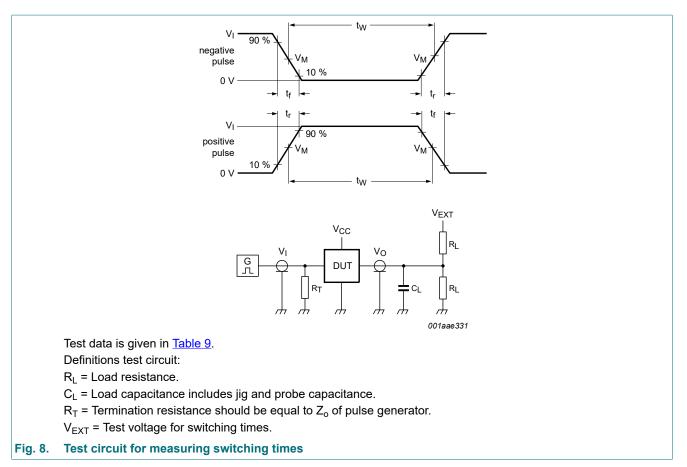


Table 9. Test data

| Supply voltage | Input | | Load | | V _{EXT} | | |
|-----------------|-----------------|---------------------------------|-------|-------|-------------------------------------|-------------------------------------|-------------------------------------|
| V _{cc} | VI | t _r , t _f | CL | RL | t _{PLH} , t _{PHL} | t _{PHZ} , t _{PZH} | t _{PLZ} , t _{PZL} |
| < 2.7 V | V _{CC} | ≤2.0 ns | 30 pF | 500 Ω | open | GND | 2 × V _{CC} |
| 2.7 V to 3.6 V | 2.7 V | ≤2.5 ns | 50 pF | 500 Ω | open | GND | 2 × V _{CC} |

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11. Package outline

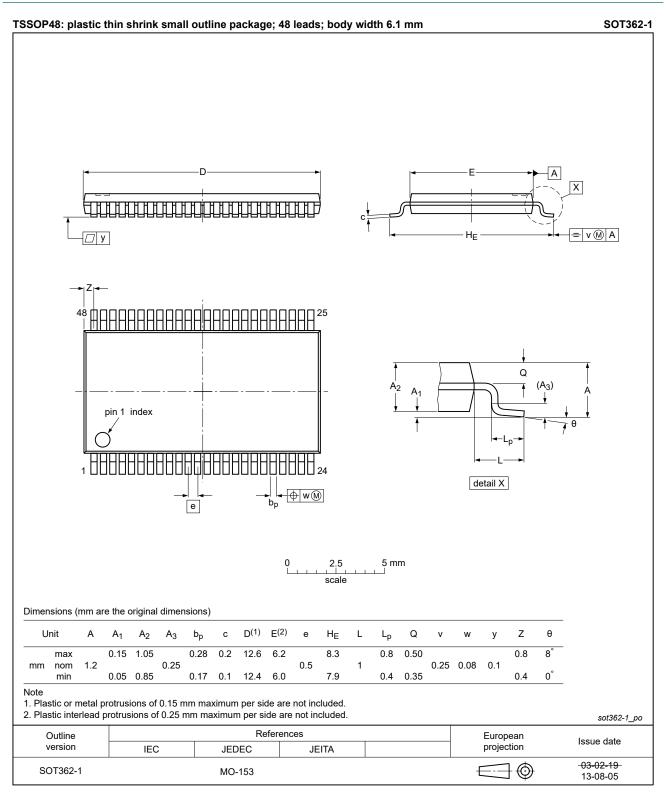


Fig. 9. Package outline SOT362-1 (TSSOP48)

74ALVC_ALVCH16245

12. 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 | |

13. Revision history

| Table 11. Revision history | | | | | | | | | | | |
|----------------------------------|----------------------|--|-------------------|----------------------------------|--|--|--|--|--|--|--|
| Document ID | Release date | Data sheet status | Change notice | Supersedes | | | | | | | |
| 74ALVC_ALVCH16245 v.6 | 20210805 | Product data sheet | - | 74ALVC_ALVCH16245 v.5 | | | | | | | |
| Modifications: | Type numb | Type number 74ALVC16245DL (SOT370-1/SSOP48) removed. | | | | | | | | | |
| 74ALVC_ALVCH16245 v.5 | 20201016 | 16 Product data sheet - 74ALVC_ALVCH162 | | | | | | | | | |
| Modifications: | • <u>Section 1</u> a | er 74ALVCH16245DL (SO ⁻ nd <u>Section 2</u> updated. rating values for P _{tot} total p | | | | | | | | | |
| 74ALVC_ALVCH16245 v.4 | 20171121 | Product data sheet | - | 74ALVC_ALVCH16245 v.3 | | | | | | | |
| Modifications: | guidelines o | of this data sheet has beer of Nexperia. have been adapted to the | - | | | | | | | | |
| 74ALVC_ALVCH16245 v.3 | 20040512 | Product data sheet | - | 74ALVCH16245 v.2 | | | | | | | |
| | | | | 74ALVC16245_ 74ALVCH16245 v.1 | | | | | | | |
| Modifications: | presentatio | of this data sheet has beer n and information standard General description update | of Philips Semico | | | | | | | | |
| 74ALVCH16245 v.2 | 19980629 | Product specification | - | 74ALVCH16245 v.1 | | | | | | | |
| 74ALVC16245_ 74ALVCH16245 v.1 | 19980325 | Product specification | - | - | | | | | | | |
| 74ALVCH16245 v.1 | 19950102 | Preliminary specification | - | - | | | | | | | |

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 74LV245DB.118

 74LV245D.112
 74LVC245APW.112
 74LVCH245AD.112
 SN75138NSR
 AP54RHC506ELT-R
 AP54RHC506BLT-R

 74LVCR162245ZQLR
 SN74LVCR16245AZQLR
 MC100EP16MNR4G
 MC100LVEP16MNR4G
 714100R
 74HCT643N

 MC100EP16DTR2G
 5962-9221403MRA
 74ALVC164245PAG
 74FCT16245ATPVG
 74FCT16245ETPAG
 74FCT245CTSOG

 MAX22088GTG+
 74HC646N
 MAX9320EUA
 74AVC8T245PW,118
 TC7QPB9306FT(EL)
 SY88808LMH