# 74LV1T32

# 2-input single supply translating OR gate

Rev. 2 — 3 December 2019

Product data sheet

### 1. General description

The 74LV1T32 is a single, level translating 2-input OR gate. The low threshold inputs support 1.8 V input logic at  $V_{CC}$  = 3.3 V and can be used in 1.8 V to 3.3 V level up translation. In addition, the 5 V tolerant input pins enable level down translation (3.3 V to 2.5 V output at  $V_{CC}$  = 2.5 V). The output level is referenced to the supply voltage and supports 1.8 V, 2.5 V, 3.3 V and 5.0 V CMOS levels. The wide  $V_{CC}$  range permits the generation of output levels to connect to controllers or processors.

#### 2. Features and benefits

- Single supply voltage translator at 1.8 V, 2.5 V, 3.3 V and 5.0 V
- Up translation
  - 1.2 V to 1.8 V at V<sub>CC</sub> = 1.8 V
  - 1.5 V to 2.5 V at V<sub>CC</sub> = 2.5 V
  - 1.8 V to 3.3 V at V<sub>CC</sub> = 3.3 V
  - 3.3 V to 5.0 V at V<sub>CC</sub> = 5.0 V
- Down translation
  - 3.3 V to 1.8 V at V<sub>CC</sub> = 1.8 V
  - 3.3 V to 2.5 V at V<sub>CC</sub> = 2.5 V
  - 5.0 V to 3.3 V at V<sub>CC</sub> = 3.3 V
- 5 V tolerant inputs
- Latch-up performance exceeds 250 mA per JESD 78 Class II
- ESD protection:
  - HBM ANSI/ESDA/JEDEC JS-001 Class 2 exceeds 2 kV
  - CDM JESD22-C101F exceeds 1 kV
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C

## 3. Applications

- · Portable applications
- PC and notebooks
- · Industrial controller
- Telecom



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# 4. Ordering information

**Table 1. Ordering information** 

Type number	Package									
	Temperature range	Name	Description	Version						
74LV1T32GW	-40 °C to +125 °C	TSSOP5	plastic thin shrink small outline package; 5 leads; body width 1.25 mm	SOT353-1						
74LV1T32GV	-40 °C to +125 °C	SC-74A	plastic surface-mounted package; 5 leads	SOT753						
74LV1T32GX	-40 °C to +125 °C	X2SON5	plastic thermal enhanced extremely thin small outline package; no leads; 5 terminals; body 0.8 x 0.8 x 0.35 mm	SOT1226						

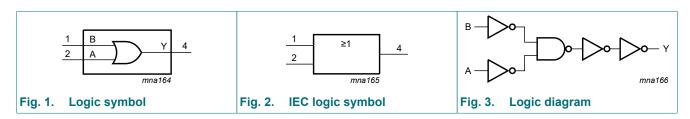
### 5. Marking

Table 2. Marking

Type number	Marking code[1]
74LV1T32GW	SB
74LV1T32GV	SB
74LV1T32GX	SB

<sup>[1]</sup> The pin 1 indicator is located on the lower left corner of the device, below the marking code.

# 6. Functional diagram



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# 7. Pinning information

### 7.1. Pinning



### 7.2. Pin description

Table 3. Pin description

Symbol	Pin	Description
В	1	data input
A	2	data input
GND	3	ground (0 V)
Υ	4	data output
V <sub>CC</sub>	5	supply voltage

# 8. Functional description

#### **Table 4. Function table**

 $H = HIGH \ voltage \ level; \ L = LOW \ voltage \ level.$ 

Input	Output	
Α	В	Υ
L	L	L
L	Н	Н
Н	L	Н
Н	Н	Н

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### 9. Limiting values

#### **Table 5. 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	+7.0	V
VI	input voltage	[1]	-0.5	+7.0	V
Vo	output voltage	output HIGH or LOW state [2][3]	-0.5	V <sub>CC</sub> + 0.5	V
		output in power-off state [2]	-0.5	4.6	V
I <sub>IK</sub>	input clamping current	V <sub>I</sub> < 0 V	-20	-	mA
I <sub>OK</sub>	output clamping current	$V_O < 0 \text{ V or } V_O > V_{CC}$	-	±20	mA
Io	output current	$V_O = 0 V \text{ to } V_{CC}$	-	±25	mA
I <sub>CC</sub>	supply current		-	50	mA
I <sub>GND</sub>	ground current		-50	-	mA
T <sub>stg</sub>	storage temperature		-65	+150	°C
P <sub>tot</sub>	total power dissipation	$T_{amb} = -40  ^{\circ}\text{C} \text{ to } +125  ^{\circ}\text{C}$ [4]	-	250	mW

<sup>[1]</sup> If the input current ratings are observed, the minimum input voltage ratings may be exceeded.

## 10. Recommended operating conditions

#### Table 6. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V <sub>CC</sub>	supply voltage		1.6	5.0	5.5	V
VI	input voltage		0	-	5.5	V
Vo	output voltage	output HIGH or LOW state	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> = 1.8 V to 5.0 V	-	-	20	ns/V

<sup>[2]</sup> If the output current ratings are observed, the output voltage ratings may be exceeded.

<sup>3]</sup> This value is limited to 7 V maximum.

<sup>[4]</sup> For SOT353-1 package: above 74 °C the value of P<sub>tot</sub> derates linearly with 3.3 mW/K. For SOT753 package: above 85 °C the value of P<sub>tot</sub> derates linearly with 3.8 mW/K. For SOT1226 package: above 67 °C the value of P<sub>tot</sub> derates linearly with 3.0 mW/K.

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### 11. Static characteristics

**Table 7. Static characteristics** 

Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	25 °C		-40 °C to +85 °C		-40 °C to	+125 °C	Unit
			Min	Max	Min	Max	Min	Max	1
V <sub>IH</sub>	HIGH-level	V <sub>CC</sub> = 1.65 V to 1.8 V	0.94	-	1.0	-	1.0	-	V
	input voltage	V <sub>CC</sub> = 2.0 V	0.99	-	1.03	-	1.03	-	V
		V <sub>CC</sub> = 2.25 V to 2.5 V	1.135	-	1.18	-	1.18	-	V
		V <sub>CC</sub> = 2.75 V	1.21	-	1.23	-	1.23	-	V
		V <sub>CC</sub> = 3.0 V to 3.3 V	1.35	-	1.37	-	1.37	-	V
		V <sub>CC</sub> = 3.6 V	1.47	-	1.48	-	1.48	-	V
		V <sub>CC</sub> = 4.5 V to 5.0 V	2.02	-	2.03	-	2.03	-	V
		V <sub>CC</sub> = 5.5 V	2.10	-	2.11	-	2.11	-	V
V <sub>IL</sub>	LOW-level	V <sub>CC</sub> = 1.65 V to 2.0 V	-	0.58	-	0.55	-	0.55	V
	input voltage	V <sub>CC</sub> = 2.25 V to 2.75 V	-	0.75	-	0.71	-	0.71	V
		V <sub>CC</sub> = 3.0 V to 3.6 V	-	0.80	-	0.65	-	0.65	V
		V <sub>CC</sub> = 4.5 V to 5.5 V	-	0.80	-	0.80	-	0.80	V
V <sub>OH</sub>	HIGH-level	$V_I = V_{IH}$ or $V_{IL}$ ;							
	output voltage	V <sub>CC</sub> = 1.65 V to 5.5 V; I <sub>O</sub> = -20 μA	V <sub>CC</sub> -0.1	-	V <sub>CC</sub> -0.1	-	V <sub>CC</sub> -0.1	-	V
		V <sub>CC</sub> = 1.65 V; I <sub>O</sub> = -2 mA	1.28	-	1.21	-	1.21	-	V
		V <sub>CC</sub> = 1.8 V; I <sub>O</sub> = -2 mA	1.5	-	1.45	-	1.45	-	V
		V <sub>CC</sub> = 2.3 V; I <sub>O</sub> = -2.3 mA	2.0	-	2.0	-	2.0	-	V
		$V_{CC} = 2.3 \text{ V; } I_{O} = -3 \text{ mA}$	2.0	-	1.93	-	1.93	-	V
		V <sub>CC</sub> = 2.5 V; I <sub>O</sub> = -3 mA	2.25	-	2.15	-	2.15	-	V
		$V_{CC} = 3.0 \text{ V}; I_{O} = -3 \text{ mA}$	2.78	-	2.7	-	2.7	-	V
		V <sub>CC</sub> = 3.0 V; I <sub>O</sub> = -5.5 mA	2.6	-	2.49	-	2.49	-	V
		V <sub>CC</sub> = 3.3 V; I <sub>O</sub> = -5.5 mA	2.9	-	2.8	-	2.8	-	V
		V <sub>CC</sub> = 4.5 V; I <sub>O</sub> = -4 mA	4.2	-	4.1	-	4.1	-	V
		V <sub>CC</sub> = 4.5 V; I <sub>O</sub> = -8 mA	4.1	-	3.95	-	3.95	-	V
		V <sub>CC</sub> = 5.0 V; I <sub>O</sub> = -8 mA	4.6	-	4.5	-	4.5	-	V
V <sub>OL</sub>	LOW-level	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>							
	output voltage	V <sub>CC</sub> = 1.65 V to 5.5 V; I <sub>O</sub> = 20 μA	-	0.1	-	0.1	-	0.1	V
		V <sub>CC</sub> = 1.65 V; I <sub>O</sub> = 2 mA	-	0.2	-	0.25	-	0.25	V
		V <sub>CC</sub> = 2.3 V; I <sub>O</sub> = 2.3 mA	-	0.1	-	0.15	-	0.15	V
		V <sub>CC</sub> = 2.3 V; I <sub>O</sub> = 3 mA	-	0.15	-	0.2	-	0.2	V
		V <sub>CC</sub> = 3.0 V; I <sub>O</sub> = 3 mA	-	0.1	-	0.15	-	0.15	V
		V <sub>CC</sub> = 3.0 V; I <sub>O</sub> = 5.5 mA	-	0.2	-	0.252	-	0.252	V
		V <sub>CC</sub> = 4.5 V; I <sub>O</sub> = 4 mA	-	0.15	-	0.2	-	0.2	V
		V <sub>CC</sub> = 4.5 V; I <sub>O</sub> = 8 mA	-	0.3	-	0.35	-	0.35	V
l <sub>l</sub>	input leakage current	V <sub>I</sub> = V <sub>CC</sub> or GND; V <sub>CC</sub> = 0 V to 5.5 V	-	±0.1	-	±1	-	±1	μA
I <sub>CC</sub>	supply current	V <sub>I</sub> = V <sub>CC</sub> or GND; I <sub>O</sub> = 0 A; V <sub>CC</sub> = 1.8 V, 2.5 V, 3.3 V, 5.0 V	-	1	-	10	-	10	μΑ

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Symbol	ol Parameter Conditions		25 °C		-40 °C to	o +85 °C	-40 °C to +125 °C		Unit
			Min	Max	Min	Max	Min	Max	
ΔI <sub>CC</sub>	additional supply current	per input pin; $V_{CC}$ = 1.8 V; $V_I$ = 0.3 V or 1.1 V; $I_O$ = 0 A; other pins at $V_{CC}$ or GND	-	10	-	10	-	10	μΑ
		per input pin; $V_{CC}$ = 5.5 V; $V_I$ = 0.3 V or 3.4 V; $I_O$ = 0 A; other pins at $V_{CC}$ or GND	-	1.35	-	1.5	-	1.5	mA

# 12. Dynamic characteristics

**Table 8. Dynamic characteristics** 

GND = 0 V. For test circuit, see Fig. 7.

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	A, B to Y; see <u>Fig. 6</u> [1]								
	delay	V <sub>CC</sub> = 1.8 V; C <sub>L</sub> = 15 pF	-	6.6	9.6	-	10.9	-	11.7	ns
		$V_{CC} = 1.8 \text{ V}; C_L = 30 \text{ pF}$	-	7.7	10.8	-	12.3	-	13.3	ns
		V <sub>CC</sub> = 2.5 V; C <sub>L</sub> = 15 pF	-	4.7	6.6	-	7.5	-	8.0	ns
		V <sub>CC</sub> = 2.5 V; C <sub>L</sub> = 30 pF	-	5.4	7.4	-	8.4	-	9.1	ns
		V <sub>CC</sub> = 3.3 V; C <sub>L</sub> = 15 pF	-	3.9	5.3	-	6.0	-	6.4	ns
		V <sub>CC</sub> = 3.3 V; C <sub>L</sub> = 30 pF	-	4.4	6.0	-	6.8	-	7.3	ns
		V <sub>CC</sub> = 5.0 V; C <sub>L</sub> = 15 pF	-	3.2	4.0	-	4.5	-	4.7	ns
		V <sub>CC</sub> = 5.0 V; C <sub>L</sub> = 30 pF	-	3.7	4.5	-	5.1	-	5.4	ns
Cı	input capacitance	$V_I = V_{CC}$ or GND; $V_{CC} = 3.3 \text{ V}$	-	1.5	10	-	10	-	10	pF
Co	output capacitance	$V_O = V_{CC}$ or GND; $V_{CC} = 3.3 \text{ V}$	-	2.5	-	-	-	-	-	pF
C <sub>PD</sub>	power dissipation	per buffer; $V_I$ = GND to $V_{CC}$ ; [2] $C_L$ = 30 pF; f = 10 MHz								
	capacitance	V <sub>CC</sub> = 1.8 V	-	4.3	-	-	-	-	-	pF
		V <sub>CC</sub> = 2.5 V	-	5.7	-	-	-	-	-	pF
		V <sub>CC</sub> = 3.3 V	-	7.6	-	-	-	-	-	pF
		V <sub>CC</sub> = 5.0 V	-	11.9	-	-	-	-	-	pF

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

 $f_i$  = input frequency in MHz;

f<sub>o</sub> = output frequency in MHz;

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

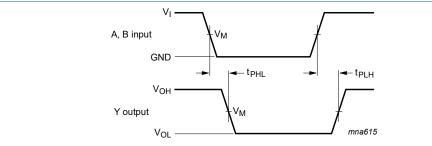
V<sub>CC</sub> = supply voltage in V;

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

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

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#### 12.1. Waveforms and test circuit



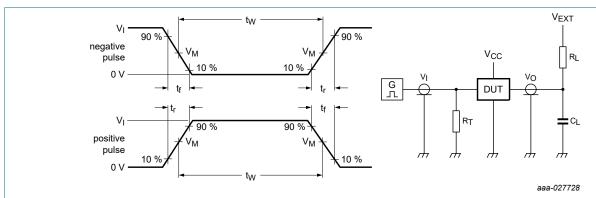
Measurement points are given in Table 9.

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

Fig. 6. The input A, B to output Y propagation delays

Table 9. Measurement points

Input	Output
$V_{M}$	$V_{M}$
0.5V <sub>I</sub>	0.5V <sub>CC</sub>



Test data is given in Table 10.

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

R<sub>L</sub> = Load resistance

V<sub>EXT</sub> = External voltage for measuring switching times

Fig. 7. Test circuit for measuring switching times

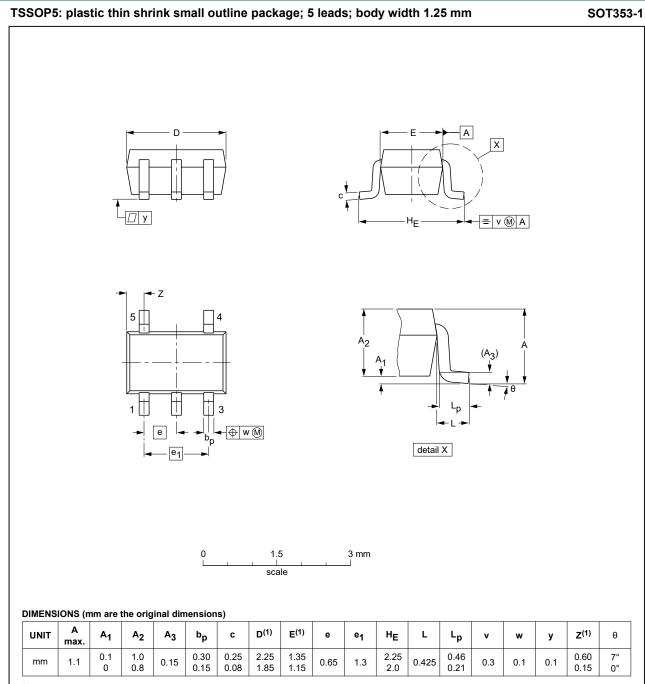
Table 10. Test data

Supply voltage	oly voltage Input			Load		V <sub>EXT</sub>		
V <sub>CC</sub>	VI	Δt/ΔV [1]	f <sub>max</sub>	CL	R <sub>L</sub>	t <sub>PLH</sub> , t <sub>PHL</sub>	t <sub>PZH</sub> , t <sub>PHZ</sub>	t <sub>PZL</sub> , t <sub>PLZ</sub>
1.8 V	V <sub>CC</sub>	≤ 1.0 ns/V	15 MHz	15 pF, 30 pF	1ΜΩ	GND	GND	V <sub>CC</sub>
2.5 V	V <sub>CC</sub>	≤ 1.0 ns/V	25 MHz	15 pF, 30 pF	1ΜΩ	GND	GND	V <sub>CC</sub>
3.3 V	3 V	≤ 1.0 ns/V	50 MHz	15 pF, 30 pF	1ΜΩ	GND	GND	V <sub>CC</sub>
5.0 V	3 V	≤ 1.0 ns/V	50 MHz	15 pF, 30 pF	1ΜΩ	GND	GND	V <sub>CC</sub>

[1]  $dV/dt \ge 1.0 V/ns$ 

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# 13. Package outline



#### Note

1. Plastic or metal protrusions of 0.15 mm maximum per side are not included.

OUTLINE		REFERENCES			EUROPEAN	ISSUE DATE
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE
SOT353-1		MO-203	SC-88A			<del>00-09-01</del> 03-02-19

Fig. 8. Package outline SOT353-1 (TSSOP5)

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#### 2-input single supply translating OR gate

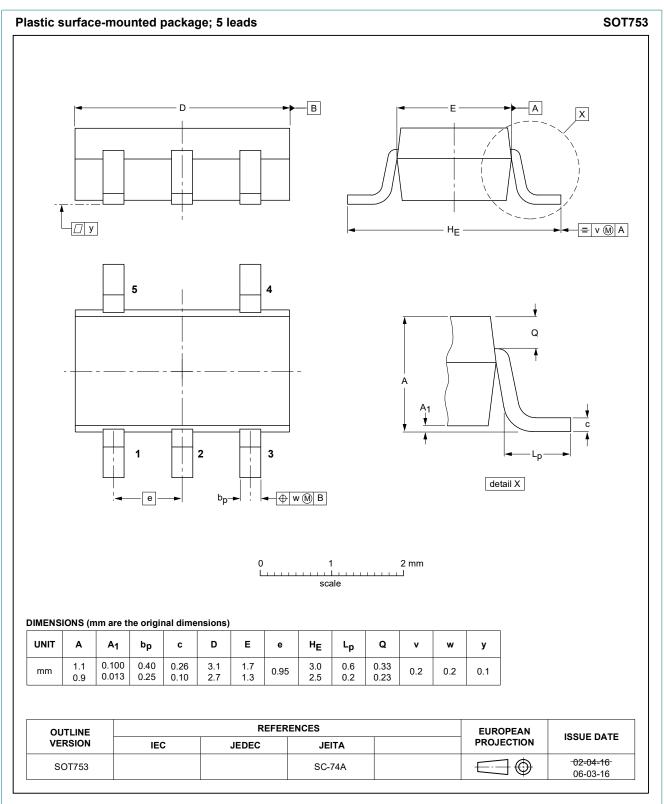


Fig. 9. Package outline SOT753 (SC-74A)

#### 2-input single supply translating OR gate

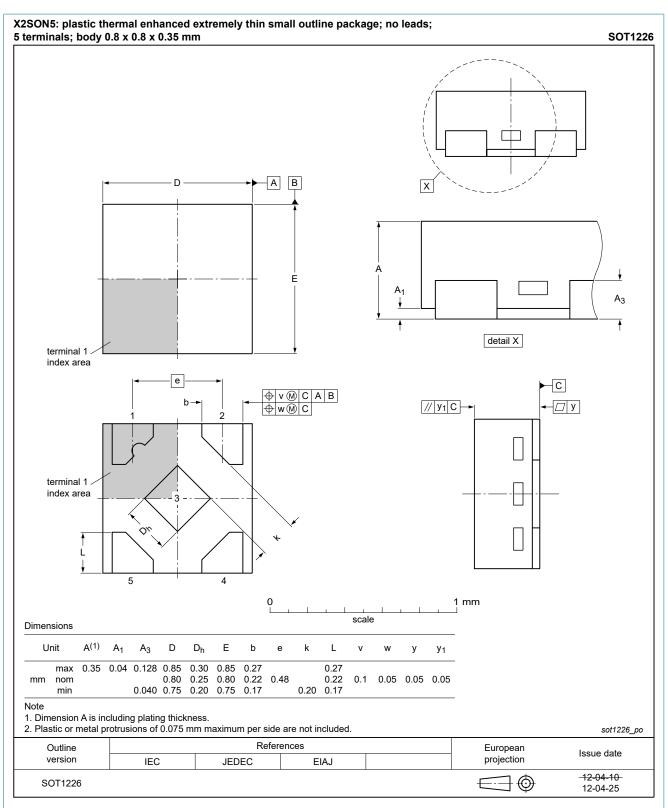


Fig. 10. Package outline SOT1226 (X2SON5)

### 2-input single supply translating OR gate

### 14. Abbreviations

#### **Table 11. Abbreviations**

Acronym	Description
CDM	Charge Device Model
CMOS	Complementary Metal Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
НВМ	Human Body Model

# 15. Revision history

#### **Table 12. Revision history**

Document ID	Release date	Data sheet status	Change notice	Supersedes
74LV1T32 v.2	20191203	Product data sheet	-	74LV1T32 v.1
Modifications:	<ul><li>Type number 7</li><li>Table 5: Deratir</li></ul>			
74LV1T32 v.1	20171128	Product data sheet	-	-

## 2-input single supply translating OR gate

### 16. 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.

- Please consult the most recently issued document before initiating or completing a design.
- [2] The term 'short data sheet' is explained in section "Definitions".
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### 2-input single supply translating OR gate

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