1-of-2 non-inverting demultiplexer with 3-state deselected output

Rev. 3 — 20 January 2022

Product data sheet

1. General description

The 74LVC1G18-Q100 is a 1-to-2 demultiplexer with 3-state outputs. The device buffers the data on input A and passes it to output 1Y or 2Y, depending on whether the state of the select input (S) is LOW or HIGH. The unused output assumes the high impedence OFF-state. Inputs can be driven from either 3.3 V or 5 V devices. This feature allows the use of these devices as translators in mixed 3.3 V and 5 V environments.

Schmitt-trigger action at all inputs makes the circuit tolerant of slower input rise and fall times.

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.

This product has been qualified to the Automotive Electronics Council (AEC) standard Q100 (Grade 1) and is suitable for use in automotive applications.

2. Features and benefits

- Automotive product qualification in accordance with AEC-Q100 (Grade 1)
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C
- Wide supply voltage range from 1.65 V to 5.5 V
- Overvoltage tolerant inputs to 5.5 V
- High noise immunity
- ±24 mA output drive (V_{CC} = 3.0 V)
- CMOS low power dissipation
- Latch-up performance exceeds 250 mA
- Direct interface with TTL levels
- I_{OFF} circuitry provides partial Power-down mode operation
 - Complies with JEDEC standard:
 - JESD8-7 (1.65 V to 1.95 V)
 - JESD8-5 (2.3 V to 2.7 V)
 - JESD8C (2.7 V to 3.6 V)
 - JESD36 (4.5 V to 5.5 V)
- ESD protection:
 - MIL-STD-883, method 3015 exceeds 2000 V
 - HBM JESD22-A114F exceeds 2000 V
 - MM JESD22-A115-A exceeds 200 V (C = 200 pF, R = 0 Ω)

3. Ordering information

Table 1. Ordering information					
Type number	Package				
	Temperature range	Name	Description	Version	
74LVC1G18GW-Q100	-40 °C to +125 °C	TSSOP6	plastic thin shrink small outline package; 6 leads; body width 1.25 mm	SOT363-2	
74LVC1G18GV-Q100	-40 °C to +125 °C	SC-74; TSOP6	plastic surface-mounted package; 6 leads	SOT457	

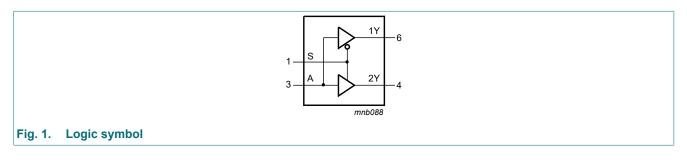
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4. Marking

Table 2. Marking	
Type number	Marking code [1]
74LVC1G18GW-Q100	VW
74LVC1G18GV-Q100	V18

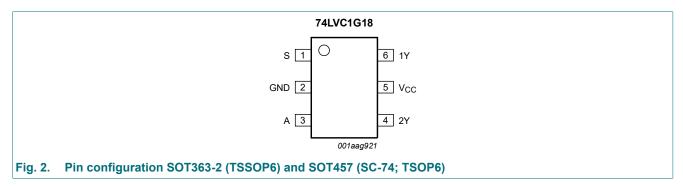
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

5. Functional diagram



6. Pinning information

6.1. Pinning



6.2. Pin description

Table 3. Pin description					
Symbol	Pin	Description			
S	1	data select			
GND	2	ground (0 V)			
A	3	data input			
2Y	4	data output			
V _{CC}	5	supply voltage			
1Y	6	data output			

74LVC1G18_Q100

7. Functional description

Table 4. Function table

H = HIGH voltage level; L = LOW voltage level; Z = high-impedance OFF-state.

Input		Output		
S	A	1Y	2Y	
L	L	L	Z	
L	Н	Н	Z	
Н	L	Z	L	
Н	Н	Z	Н	

8. 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	+6.5	V
I _{IK}	input clamping current	V ₁ < 0 V		-50	-	mA
VI	input voltage		[1]	-0.5	+6.5	V
I _{OK}	output clamping current	$V_{\rm O}$ > $V_{\rm CC}$ or $V_{\rm O}$ < 0 V		-	±50	mA
Vo	output voltage	Active mode	[1]	-0.5	V _{CC} + 0.5	V
		Power-down mode; $V_{CC} = 0 V$	[1]	-0.5	+6.5	V
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 +125 °C	[2]	-	250	mW

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

[2] For SOT363-2 (TSSOP6) package: P_{tot} derates linearly with 3.7 mW/K above 83 °C.

For SOT457 (SC-74; TSOP6) package: Ptot derates linearly with 4.1 mW/K above 89 °C.

9. Recommended operating conditions

Table 6. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V _{CC}	supply voltage		1.65	-	5.5	V
VI	input voltage		0	-	5.5	V
Vo	output voltage	Active mode	0	-	V _{CC}	Vo
		Power-down mode; V_{CC} = 0 V	0	-	5.5	Vo
T _{amb}	ambient temperature		-40	-	+125	°C
Δt/ΔV	input transition rise and fall rate	V _{CC} = 1.65 V to 2.7 V	-	-	20	ns/V
		V_{CC} = 2.7 V to 5.5 V	-	-	10	ns/V

10. Static characteristics

Table 7. Static characteristics

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

Symbol	Parameter	Conditions	Min	Typ [1]	Max	Unit
T _{amb} = -4	40 °C to +85 °C					
V _{IH}	HIGH-level input voltage	V _{CC} = 1.65 V to 1.95 V	0.65V _{CC}	-	-	V
		V _{CC} = 2.3 V to 2.7 V	1.7	-	-	V
		V _{CC} = 2.7 V to 3.6 V	2.0	-	-	V
		V _{CC} = 4.5 V to 5.5 V	0.7V _{CC}	-	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 1.65 V to 1.95 V	-	-	0.35V _{CC}	V
		V _{CC} = 2.3 V to 2.7 V	-	-	0.7	V
		V _{CC} = 2.7 V to 3.6 V	-	-	0.8	V
		V _{CC} = 4.5 V to 5.5 V	-	-	0.3V _{CC}	V
V _{OH}	HIGH-level output voltage	V _I = V _{IH} or V _{IL}				
		I_{O} = -100 µA; V_{CC} = 1.65 V to 5.5 V	V _{CC} - 0.1	-	-	V
		I _O = -4 mA; V _{CC} = 1.65 V	1.2	-	-	V
		I _O = -8 mA; V _{CC} = 2.3 V	1.9	-	-	V
		I _O = -12 mA; V _{CC} = 2.7 V	2.2	-	-	V
		I _O = -24 mA; V _{CC} = 3.0 V	2.3	-	-	V
		I _O = -32 mA; V _{CC} = 4.5 V	3.8	-	-	V
V _{OL}	LOW-level output voltage	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		I_{O} = 100 µA; V_{CC} = 1.65 V to 5.5 V	-	-	0.1	V
		I _O = 4 mA; V _{CC} = 1.65 V	-	-	0.45	V
		I _O = 8 mA; V _{CC} = 2.3 V	-	-	0.3	V
		I _O = 12 mA; V _{CC} = 2.7 V	-	-	0.4	V
		I _O = 24 mA; V _{CC} = 3.0 V	-	-	0.55	V
		I _O = 32 mA; V _{CC} = 4.5 V	-	-	0.55	V
lı	input leakage current	V_{CC} = 0 V to 5.5 V; V _I = 5.5 V or GND	-	±0.1	±1	μA
I _{OZ}	OFF-state output current	$V_{CC} = 3.6 \text{ V}; \text{ V}_{I} = \text{V}_{IH} \text{ or } \text{V}_{IL};$ $V_{O} = 5.5 \text{ V} \text{ or GND}$	-	±0.1	±2	μA
IOFF	power-off leakage current	$V_{CC} = 0 V; V_{I} \text{ or } V_{O} = 5.5 V$	-	±0.1	±2	μA
l _{cc}	supply current	V _I = 5.5 V or GND; V _{CC} = 1.65 V to 5.5 V; I _O = 0 A	-	0.1	4	μA
ΔI _{CC}	additional supply current	per pin; V_{CC} = 2.3 V to 5.5 V; V _I = V _{CC} - 0.6 V; I _O = 0 A	-	5	500	μA
CI	input capacitance	V_{CC} = 3.3 V; V_{I} = GND to V_{CC}	-	2.5	-	pF

Symbol	Parameter	Conditions	Min	Typ [1]	Max	Unit
T _{amb} = -	40 °C to +125 °C			1	L	-
V _{IH}	HIGH-level input voltage	V _{CC} = 1.65 V to 1.95 V	0.65V _{CC}	-	-	V
		V _{CC} = 2.3 V to 2.7 V	1.7	-	-	V
		V _{CC} = 2.7 V to 3.6 V	2.0	-	-	V
		V _{CC} = 4.5 V to 5.5 V	0.7V _{CC}	-	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 1.65 V to 1.95 V	-	-	0.35V _{CC}	V
		V _{CC} = 2.3 V to 2.7 V	-	-	0.7	V
		V _{CC} = 2.7 V to 3.6 V	-	-	0.8	V
		V _{CC} = 4.5 V to 5.5 V	-	-	0.3V _{CC}	V
V _{OH}	HIGH-level output voltage	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		I_{O} = -100 µA; V_{CC} = 1.65 V to 5.5 V	V _{CC} - 0.1	-	-	V
		I _O = -4 mA; V _{CC} = 1.65 V	0.95	-	-	V
		I _O = -8 mA; V _{CC} = 2.3 V	1.7	-	-	V
		I _O = -12 mA; V _{CC} = 2.7 V	1.9	-	-	V
		I _O = -24 mA; V _{CC} = 3.0 V	2.0	-	-	V
		I _O = -32 mA; V _{CC} = 4.5 V	3.4	-	-	V
V _{OL}	LOW-level output voltage	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		I_{O} = 100 µA; V_{CC} = 1.65 V to 5.5 V	-	-	0.1	V
		I _O = 4 mA; V _{CC} = 1.65 V	-	-	0.70	V
		I _O = 8 mA; V _{CC} = 2.3 V	-	-	0.45	V
		I _O = 12 mA; V _{CC} = 2.7 V	-	-	0.60	V
		I _O = 24 mA; V _{CC} = 3.0 V	-	-	0.80	V
		I _O = 32 mA; V _{CC} = 4.5 V	-	-	0.80	V
I	input leakage current	V_{CC} = 0 V to 5.5 V; V _I = 5.5 V or GND	-	-	±1	μA
I _{OZ}	OFF-state output current	$V_{CC} = 3.6 \text{ V}; \text{ V}_{I} = \text{V}_{IH} \text{ or } \text{V}_{IL};$ $V_{O} = 5.5 \text{ V} \text{ or GND}$	-	-	±2	μA
I _{OFF}	power-off leakage current	V_{CC} = 0 V; V _I or V _O = 5.5 V	-	-	±2	μA
I _{CC}	supply current	V _I = 5.5 V or GND; V _{CC} = 1.65 V to 5.5 V; I _O = 0 A	-	-	4	μA
ΔI _{CC}	additional supply current	per pin; $V_{CC} = 2.3 \text{ V}$ to 5.5 V; $V_I = V_{CC} - 0.6 \text{ V}$; $I_O = 0 \text{ A}$	-	-	500	μA

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

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11. Dynamic characteristics

Table 8. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V). For test circuit see Fig. 5.

Symbol	Parameter	Conditions	-40	-40 °C to +85 °C			-40 °C to +125 °C		
			Min	Тур [1]	Мах	Min	Max		
t _{pd}	propagation delay	A to nY; see <u>Fig. 3</u> [2]							
		V _{CC} = 1.65 V to 1.95 V	1.0	5.1	10.0	1.0	12.5	ns	
		V _{CC} = 2.3 V to 2.7 V	1.0	3.2	5.5	0.5	6.9	ns	
		V _{CC} = 2.7 V	1.0	3.2	5.4	0.5	6.8	ns	
		V _{CC} = 3.0 V to 3.6 V	1.0	3.0	5.0	0.5	6.3	ns	
		V_{CC} = 4.5 V to 5.5 V	1.0	2.3	3.8	0.5	4.8	ns	
t _{en}	enable time	S to nY; see <u>Fig. 4</u> [3]							
	V _{CC} = 1.65 V to 1.95 V	1.0	5.8	11.0	1.0	13.8	ns		
		V _{CC} = 2.3 V to 2.7 V	1.0	3.6	6.2	0.5	7.8	ns	
		V _{CC} = 2.7 V	1.0	3.6	6.0	0.5	7.5	ns	
		V _{CC} = 3.0 V to 3.6 V	1.0	3.1	5.2	0.5	6.5	ns	
		V _{CC} = 4.5 V to 5.5 V	1.0	2.4	3.6	0.5	4.5	ns	
t _{dis}	disable time	S to nY; see <u>Fig. 4</u> [4]							
		V _{CC} = 1.65 V to 1.95 V	1.0	4.8	9.0	1.0	11.3	ns	
		V _{CC} = 2.3 V to 2.7 V	1.0	2.7	5.3	0.5	6.6	ns	
		V _{CC} = 2.7 V	1.0	3.5	5.2	0.5	6.5	ns	
		V _{CC} = 3.0 V to 3.6 V	1.0	3.3	4.9	0.5	6.1	ns	
		V _{CC} = 4.5 V to 5.5 V	0.5	2.2	3.3	0.5	4.1	ns	
C _{PD}	power dissipation capacitance	$V_1 = GND$ to V_{CC} ; $V_{CC} = 3.3 V$ [5]	-	28.8	-	-	-	pF	

[1] Typical values are measured at T_{amb} = 25 °C and V_{CC} = 1.8 V, 2.5 V, 2.7 V, 3.3 V and 5.0 V respectively.

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

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

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

 $\label{eq:cpd} [5] \quad C_{PD} \text{ is used to determine the dynamic power dissipation } (P_D \text{ in } \mu W).$

 $P_{D} = C_{PD} \times V_{CC}^{2} \times f_{i} \times N + \sum (C_{L} \times V_{CC}^{2} \times f_{o}) \text{ where:}$

f_i = input frequency in MHz;

 f_o = output frequency in MHz;

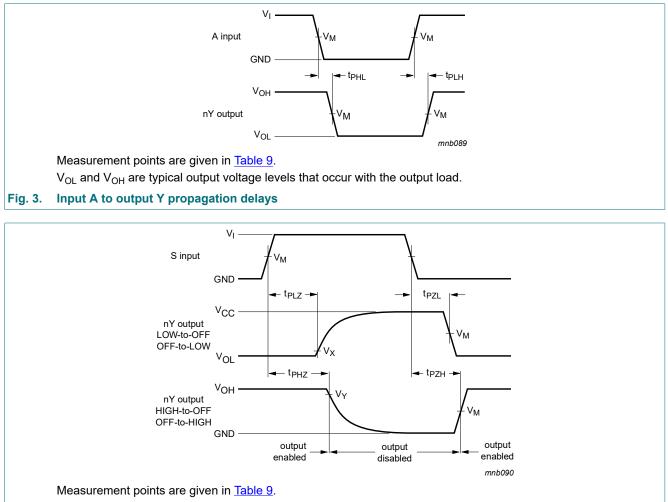
C_L = output load capacitance in pF;

V_{CC} = supply voltage in V;

N = number of inputs switching;

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

11.1. Waveforms and test circuit

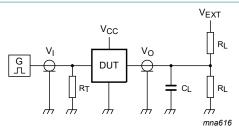


 V_{OL} and V_{OH} are typical output voltage levels that occur with the output load.

Fig. 4. 3-state enable and disable times

Supply voltage	Input	Output	Output			
V _{cc}	V _M	V _M	V _X	V _Y		
1.65 V to 1.95 V	0.5V _{CC}	0.5V _{CC}	V _{OL} + 0.15 V	V _{OH} - 0.15 V		
2.3 V to 2.7 V	0.5V _{CC}	0.5V _{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		
3.0 V to 3.6 V	1.5 V	1.5 V	V _{OL} + 0.3 V	V _{OH} - 0.3 V		
4.5 V to 5.5 V	0.5V _{CC}	0.5V _{CC}	V _{OL} + 0.3 V	V _{OH} - 0.3 V		

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Test data is given in <u>Table 10</u>.

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 the output impedance Z_o of the pulse generator;

 V_{EXT} = External voltage for measuring switching times.

Fig. 5. Test circuit for measuring switching times

Table 10. Test data

V _{CC} Input			Load	Load		V _{EXT}		
	VI	t _r = t _f	CL	RL	t _{PLH} , t _{PHL}	t _{PZH} , t _{PHZ}	t _{PZL} , t _{PLZ}	
1.65 V to 1.95 V	V _{CC}	≤ 2.0 ns	30 pF	1 kΩ	open	GND	2V _{CC}	
2.3 V to 2.7 V	V _{CC}	≤ 2.0 ns	30 pF	500 Ω	open	GND	2V _{CC}	
2.7 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open	GND	6 V	
3.0 V to 3.6 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open	GND	6 V	
4.5 V to 5.5 V	V _{CC}	≤ 2.5 ns	50 pF	500 Ω	open	GND	2V _{CC}	

12. Package outline

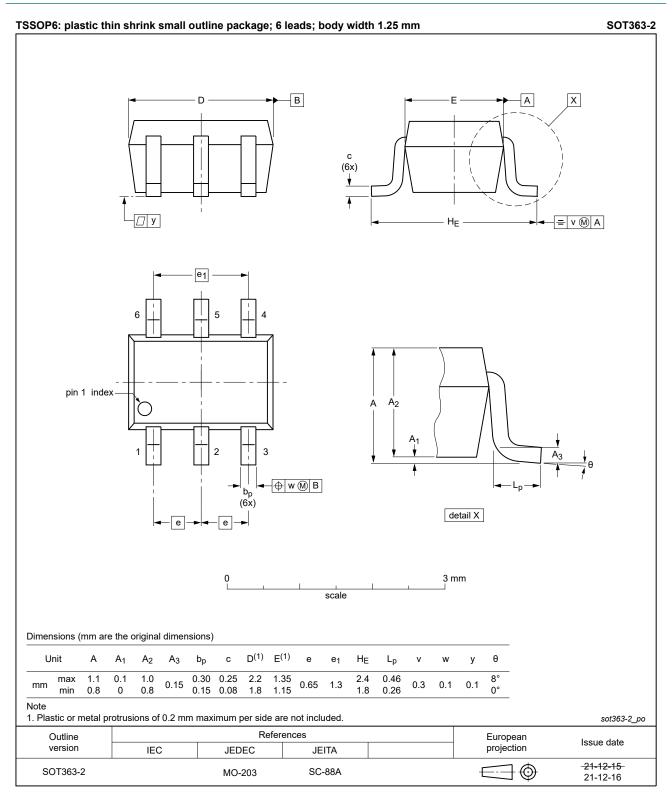


Fig. 6. Package outline SOT363-2 (TSSOP6)

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1-of-2 non-inverting demultiplexer with 3-state deselected output

Plastic, surface-mounted package (SC-74; TSOP6); 6 leads

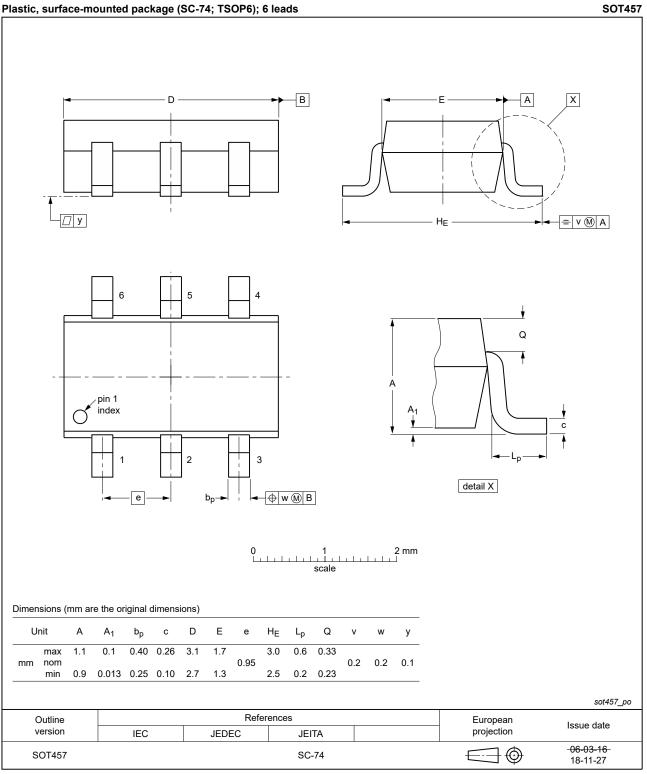


Fig. 7. Package outline SOT457 (SC-74; TSOP6)

Product data sheet

13. Abbreviations

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

14. Revision history

Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74LVC1G18_Q100 v.3	20220120	Product data sheet	-	74LVC1G18_Q100 v.2	
Modifications:	 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. Package SOT363 (SC-88) changed to SOT363-2 (TSSOP6). Section 1 and Section 2 updated. Section 8: P_{tot} total power dissipation and its derating values updated. Fig. 7: Package outline drawing SOT457 (SC-74; TSOP6) updated. 				
74LVC1G18_Q100 v.2	20161209	Product data sheet	-	74LVC1G18_Q100 v.1	
Modifications:	• <u>Table 7</u> : The maximum limits for leakage current and supply current have changed.				
74LVC1G18_Q100 v.1	20130516	Product data sheet	-	-	

15. 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".

[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 <u>https://www.nexperia.com</u>.

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