74AHC139-Q100; 74AHCT139-Q100

Dual 2-to-4 line decoder/demultiplexer

Rev. 1 — 5 June 2013

Product data sheet

1. General description

The 74AHC139-Q100; 74AHCT139-Q100 is a high-speed Si-gate CMOS device and is pin compatible with Low-power Schottky TTL (LSTTL). It is specified in compliance with JEDEC standard No. 7A.

The 74AHC139-Q100; 74AHCT139-Q100 is a high-speed, dual 2-to-4 line decoder/demultiplexer. This device has two independent decoders. Each decoder accepts two binary weighted inputs (nA0 and nA1) and provides four mutually exclusive active LOW outputs (nY0 to nY3). Each decoder has an active LOW enable input (nE). When nE is HIGH, every output is forced HIGH. The enable input can be used as the data input for a 1-to-4 demultiplexer application.

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
- Balanced propagation delays
- All inputs have Schmitt-trigger actions
- Inputs accept voltages higher than V_{CC}
- Input levels:
 - ◆ For 74AHC139-Q100: CMOS level
 - ◆ For 74AHCT139-Q100: TTL level
- ESD protection:
 - ◆ MIL-STD-883, method 3015 exceeds 2000 V
 - HBM JESD22-A114F exceeds 2000 V
 - lacktriangle MM JESD22-A115-A exceeds 200 V (C = 200 pF, R = 0 Ω)
- Multiple package options

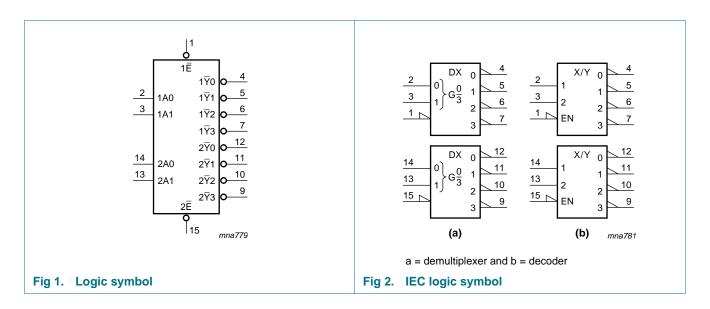


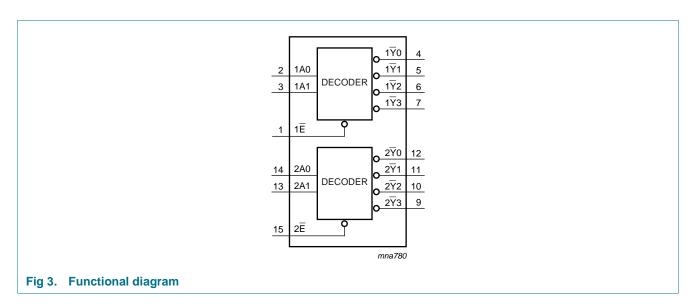
3. Ordering information

Table 1. Ordering information

Type number	Package												
	Temperature range	Name	Description	Version									
74AHC139-Q100													
74AHC139D-Q100	–40 °C to +125 °C	SO16	plastic small outline package; 16 leads; body width 3.9 mm	SOT109-1									
74AHC139PW-Q100	–40 °C to +125 °C	TSSOP16	plastic thin shrink small outline package; 16 leads; body width 4.4 mm	SOT403-1									
74AHCT139-Q100													
74AHCT139D-Q100	–40 °C to +125 °C	SO16	plastic small outline package; 16 leads; body width 3.9 mm	SOT109-1									
74AHCT139PW-Q100	−40 °C to +125 °C	TSSOP16	plastic thin shrink small outline package; 16 leads; body width 4.4 mm	SOT403-1									

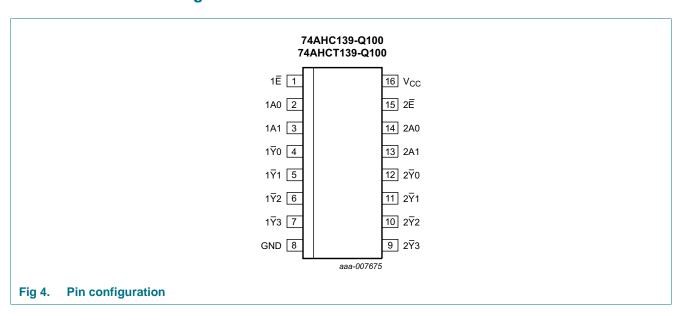
4. Functional diagram





5. Pinning information

5.1 Pinning



5.2 Pin description

Table 2. Pin description

Symbol	Pin	Description
1Ē	1	enable input (active LOW)
1A0	2	address input
1A1	3	address input
1 Y 0	4	output
1 <u>Y</u> 1	5	output

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Pin description ... continued Table 2.

Symbol	Pin	Description
1 Y 2	6	output
1 Y 3	7	output
GND	8	ground (0 V)
2 Y 3	9	output
2 Y 2	10	output
2 <u>Y</u> 1	11	output
2 Y 0	12	output
2A1	13	address input
2A0	14	address input
2E	15	enable input (active LOW)
V _{CC}	16	supply voltage

Functional description

Function table[1] Table 3.

Control	Input		Output	Output									
nE	nA0	nA1	nY0	n <u>Y</u> 1	nY2	nY3							
Н	X	X	Н	Н	Н	Н							
L	L	L	L	Н	Н	Н							
_	Н	L	Н	L	Н	Н							
	L	Н	Н	Н	L	Н							
	Н	Н	Н	Н	Н	L							

^[1] H = HIGH voltage level;

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	+7.0	V
VI	input voltage		-0.5	+7.0	V
I _{IK}	input clamping current	$V_{I} < -0.5 \text{ V}$	<u>[1]</u> –20	-	mA
I _{OK}	output clamping current	V_O < -0.5 V or V_O > V_{CC} + 0.5 V	<u>[1]</u> –20	+20	mA
I _O	output current	$V_{O} = -0.5 \text{ V to } (V_{CC} + 0.5 \text{ V})$	-25	+25	mA
I _{CC}	supply current		-	+75	mA
I _{GND}	ground current		−75	-	mA
T _{stg}	storage temperature		-65	+150	°C
P _{tot}	total power dissipation	$T_{amb} = -40 ^{\circ}\text{C} \text{ to } +125 ^{\circ}\text{C}$	[2] -	500	mW

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

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L = LOW voltage level;

X = don't care.

[2] For SO16 packages: above 70 °C the value of P_{tot} derates linearly at 8 mW/K. For TSSOP16 packages: above 60 °C the value of P_{tot} derates linearly at 5.5 mW/K.

8. Recommended operating conditions

Table 5. Operating conditions

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Symbol	Parameter	Conditions	Min	Тур	Max	Unit
74AHC1	39-Q100					
V _{CC}	supply voltage		2.0	5.0	5.5	V
VI	input voltage		0	-	5.5	V
Vo	output voltage		0	-	V_{CC}	V
T _{amb}	ambient temperature		-40	+25	+125	°C
Δt/ΔV	input transition rise and fall rate	$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$	-	-	100	ns/V
		$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	-	-	20	ns/V
74AHCT	139-Q100					
V_{CC}	supply voltage		4.5	5.0	5.5	V
VI	input voltage		0	-	5.5	V
Vo	output voltage		0	-	V_{CC}	V
T _{amb}	ambient temperature		-40	+25	+125	°C
Δt/ΔV	input transition rise and fall rate	$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	-	-	20	ns/V

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 t	o +85 °C	–40 °C to	Unit	
			Min	Тур	Max	Min	Max	Min	Max	
74AHC1	39-Q100		•	•				'		'
V_{IH}	HIGH-level	V _{CC} = 2.0 V	1.5	-	-	1.5	-	1.5	-	V
	input voltage	$V_{CC} = 3.0 \text{ V}$	2.1	-	-	2.1	-	2.1	-	V
		$V_{CC} = 5.5 \text{ V}$	3.85	-	-	3.85	-	3.85	-	V
V_{IL}	LOW-level	V _{CC} = 2.0 V	-	-	0.5	-	0.5	-	0.5	V
input voltage	$V_{CC} = 3.0 \text{ V}$	-	-	0.9	-	0.9	-	0.9	V	
		V _{CC} = 5.5 V	-	-	1.65	-	1.65	-	1.65	V
V_{OH}	HIGH-level	$V_I = V_{IH}$ or V_{IL}								
	output voltage	$I_{O} = -50 \mu A; V_{CC} = 2.0 V$	1.9	2.0	-	1.9	-	1.9	-	V
		$I_{O} = -50 \mu A; V_{CC} = 3.0 V$	2.9	3.0	-	2.9	-	2.9	-	V
		$I_{O} = -50 \mu A; V_{CC} = 4.5 V$	4.4	4.5	-	4.4	-	4.4	-	V
		$I_O = -4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.58	-	-	2.48	-	2.40	-	V
		$I_{O} = -8.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.94	-	-	3.80	-	3.70	-	V
V _{OL}	LOW-level	$V_I = V_{IH}$ or V_{IL}								
	output voltage	$I_O = 50 \mu A; V_{CC} = 2.0 V$	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 50 \mu A; V_{CC} = 3.0 V$	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 50 \mu A; V_{CC} = 4.5 V$	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.36	-	0.44	-	0.55	V
		I_{O} = 8.0 mA; V_{CC} = 4.5 V	-	-	0.36	-	0.44	-	0.55	V

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 Table 6.
 Static characteristics ...continued

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

Symbol	Parameter	Conditions		25 °C		-40 °C t	o +85 °C	–40 °C to	Unit	
			Min	Тур	Max	Min	Max	Min	Max	
I _I	input leakage current	V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V	-	-	0.1	-	1.0	-	2.0	μΑ
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$	-	-	4.0	-	40	-	80	μΑ
Cı	input capacitance	$V_I = V_{CC}$ or GND	-	3	10	-	10	-	10	pF
C _O	output capacitance		-	4	-	-	-	-	-	pF
74AHCT	139-Q100									
V_{IH}	HIGH-level input voltage	$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	2.0	-	-	2.0	-	2.0	-	V
V_{IL}	LOW-level input voltage	$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	-	-	0.8	-	0.8	-	0.8	V
V_{OH}	HIGH-level	$V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 4.5 \text{ V}$								
	output voltage	$I_{O} = -50 \mu A$	4.4	4.5	-	4.4	-	4.4	-	V
		$I_0 = -8.0 \text{ mA}$	3.94	-	-	3.80	-	3.70	-	V
V_{OL}	LOW-level	$V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 4.5 \text{ V}$								
	output voltage	$I_O = 50 \mu A$	-	0	0.1	-	0.1	-	0.1	V
		$I_0 = 8.0 \text{ mA}$	-	-	0.36	-	0.44	-	0.55	V
I	input leakage current	$V_I = 5.5 \text{ V or GND};$ $V_{CC} = 0 \text{ V to } 5.5 \text{ V}$	-	-	0.1	-	1.0	-	2.0	μΑ
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$	-	-	4.0	-	40	-	80	μΑ
Δl _{CC}	additional supply current	per input pin; $V_I = V_{CC} - 2.1 \text{ V}$; other pins at V_{CC} or GND; $I_O = 0 \text{ A}$; $V_{CC} = 4.5 \text{ V}$ to 5.5 V	-	-	1.35	-	1.5	-	1.5	mA
Cı	input capacitance	$V_I = V_{CC}$ or GND	-	3	10	-	10	-	10	pF
Co	output capacitance		-	4	-	-	-	-	-	pF

10. Dynamic characteristics

Table 7. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see <u>Figure 7</u>.

Symbol	Parameter	Conditions			25 °C		-40 °C to	+85 °C	-40 °C to	+125 °C	Unit
				Min	Typ[1]	Max	Min	Max	Min	Max	
74AHC1	39-Q100										
t _{pd}	propagation	nAn to $n\overline{Y}$ n; see Figure 5	[2]								
	delay	$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$									
		C _L = 15 pF		-	5.5	11.0	1.0	13.0	1.0	14.0	ns
		C _L = 50 pF		-	7.9	14.5	1.0	16.5	1.0	18.5	ns
		$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$									
	C _L = 15 pF		-	3.9	7.2	1.0	8.5	1.0	9.0	ns	
		C _L = 50 pF		-	5.6	9.2	1.0	10.5	1.0	11.5	ns
		nE to nYn; see Figure 6	[2]								
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$									
		C _L = 15 pF		-	4.8	9.2	1.0	11.0	1.0	11.5	ns
		C _L = 50 pF		-	6.9	12.7	1.0	14.5	1.0	16.0	ns
		$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$									
		$C_L = 15 pF$		-	3.4	6.3	1.0	7.5	1.0	8.0	ns
		$C_L = 50 pF$		-	4.9	8.3	1.0	9.5	1.0	10.5	ns
C _{PD}	power dissipation capacitance	f_i = 1 MHz; V_I = GND to V_{CC}	[3]	-	26	-	-	-	-	-	pF
74AHCT	139-Q100; V _C	_C = 4.5 V to 5.5 V									
t_{pd}		nAn to nYn; see Figure 5	[2]								
	delay	$C_L = 15 pF$		-	4.7	7.2	1.0	8.5	1.0	9.0	ns
		$C_L = 50 pF$		-	6.5	9.2	1.0	10.5	1.0	11.5	ns
		nE to nYn; see Figure 6	[2]								
		C _L = 15 pF		-	3.6	6.3	1.0	7.5	1.0	8.0	ns
		C _L = 50 pF		-	5.2	8.3	1.0	9.5	1.0	10.5	ns
C _{PD}	power dissipation capacitance	f_i = 1 MHz; V_I = GND to V_{CC}	[3]	-	23	-	-	-	-	-	pF

^[1] Typical values are measured at nominal supply voltage (V_{CC} = 3.3 V and V_{CC} = 5.0 V).

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

 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;

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

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

^[3] C_{PD} is used to determine the dynamic power dissipation (P_D in μW).

11. Waveforms

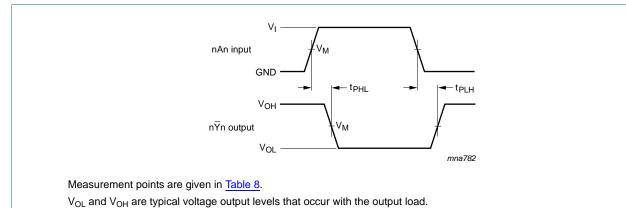


Fig 5. Address input to output propagation delays

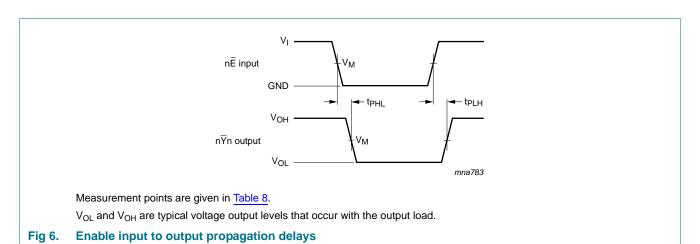
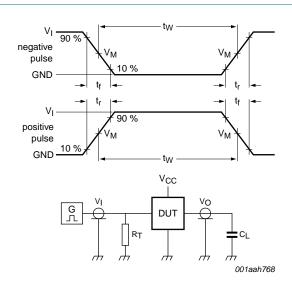


Table 8. Measurement points

Туре	Input	Output
	V _M	V _M
74AHC139-Q100	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$
74AHCT139-Q100	1.5 V	$0.5 \times V_{CC}$



Test data is given in Table 9.

Definitions test circuit:

 R_T = termination resistance should be equal to output impedance Z_0 of the pulse generator.

 C_L = load capacitance including jig and probe capacitance.

Fig 7. Load circuitry for measuring switching times

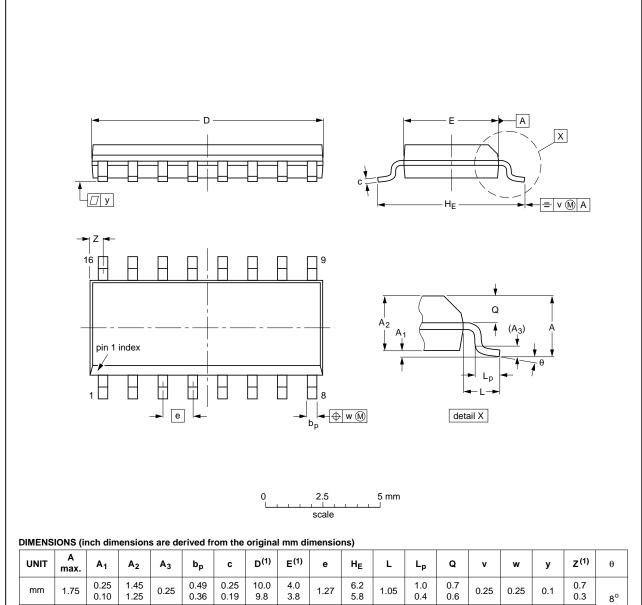
Table 9. Test data

Туре	Input		Load	Test
	VI	t _r , t _f	CL	
74AHC139-Q100	V _{CC}	≤ 3.0 ns	15 pF, 50 pF	t _{PLH} , t _{PHL}
74AHCT139-Q100	3.0 V	≤ 3.0 ns	15 pF, 50 pF	t _{PLH} , t _{PHL}

12. Package outline

SO16: plastic small outline package; 16 leads; body width 3.9 mm

SOT109-1



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	1.75	0.25 0.10	1.45 1.25	0.25	0.49 0.36	0.25 0.19	10.0 9.8	4.0 3.8	1.27	6.2 5.8	1.05	1.0 0.4	0.7 0.6	0.25	0.25	0.1	0.7 0.3	8°
inches	0.069	0.010 0.004	0.057 0.049	0.01	I	0.0100 0.0075		0.16 0.15	0.05	0.244 0.228	0.041	0.039 0.016		0.01	0.01	0.004	0.028 0.012	0°

Note

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

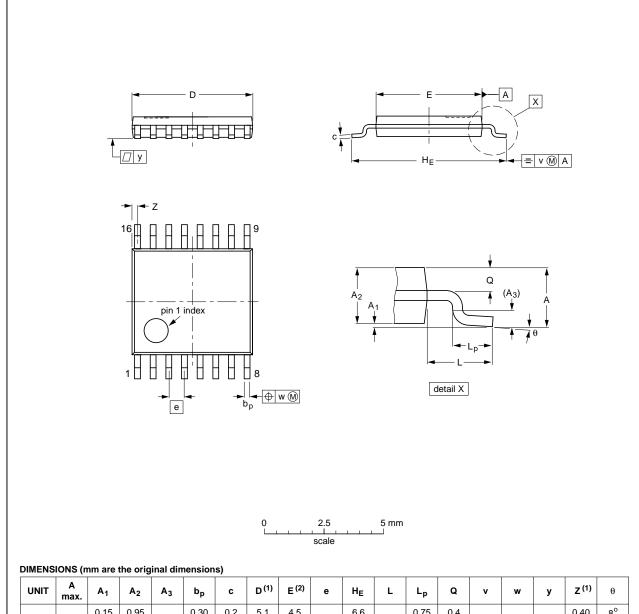
OUTLINE		REFER	EUROPEAN	ISSUE DATE			
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE	
SOT109-1	076E07	MS-012				99-12-27 03-02-19	

Fig 8. Package outline SOT109-1 (SO16)

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TSSOP16: plastic thin shrink small outline package; 16 leads; body width 4.4 mm

SOT403-1



UNIT	A max.	A ₁	A ₂	A ₃	bp	С	D ⁽¹⁾	E ⁽²⁾	е	HE	L	Lp	Q	v	w	у	Z ⁽¹⁾	θ
mm	1.1	0.15 0.05	0.95 0.80	0.25	0.30 0.19	0.2 0.1	5.1 4.9	4.5 4.3	0.65	6.6 6.2	1	0.75 0.50	0.4 0.3	0.2	0.13	0.1	0.40 0.06	8° 0°

- 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	EUROPEAN	ISSUE DATE		
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE
SOT403-1		MO-153				-99-12-27 03-02-18

Fig 9. Package outline SOT403-1 (TSSOP16)

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13. Abbreviations

Table 10. Abbreviations

Acronym	Description
CDM	Charged Device Model
CMOS	Complementary Metal-Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
НВМ	Human Body Model
LSTTL	Low-power Schottky Transistor-Transistor Logic
MIL	Military
MM	Machine Model

14. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74AHC_AHCT139_Q100 v.1	20130605	Product data sheet	-	-

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.nexperia.com.

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