74HC139; 74HCT139

Dual 2-to-4 line decoder/demultiplexer

Rev. 5 — 14 January 2021

Product data sheet

1. General description

The 74HC139; 74HCT139 decodes two binary weighted address inputs (nA0, nA1) to four mutually exclusive outputs (n \overline{Y} 0 to n \overline{Y} 3). Each decoder features an enable input (n \overline{E}). When n \overline{E} is HIGH all outputs are forced HIGH. The enable input can be used as the data input for a 1-to-4 demultiplexer application. 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

- Input levels:
 - For 74HC139: CMOS level
 - For 74HCT139: TTL level
- Demultiplexing capability
- 2 independent 2-to-4 decoders
- Multifunction capability
- Suitable for memory decoding, data routing or code conversion
- · Complies with JEDEC standard no. 7A
- Active LOW mutually exclusive outputs
- ESD protection:
- HBM JESD22-A114F exceeds 2000 V
 - MM JESD22-A115-A exceeds 200 V
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C

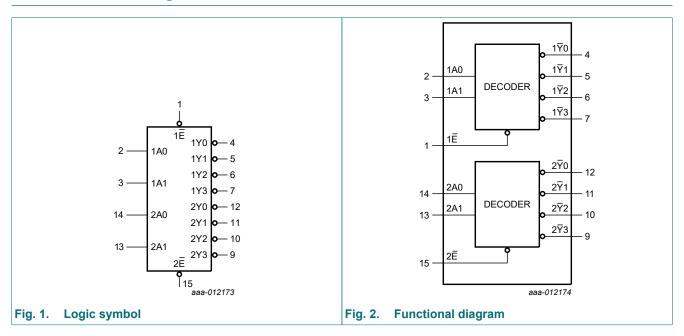
3. Ordering information

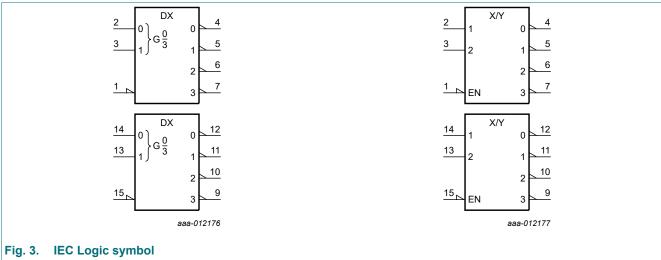
Table 1. Ordering information

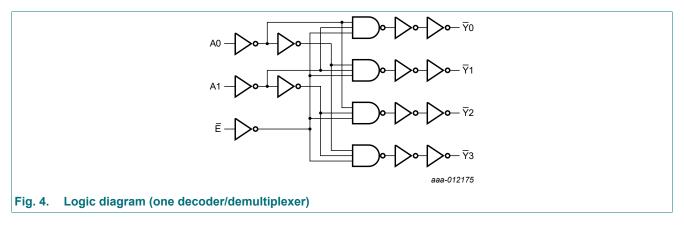
Table 1. Oracining i	mormation				
Type number	Package				
	Temperature range	Name	Description	Version	
74HC139D	-40 °C to +125 °C	SO16	plastic small outline package; 16 leads;	SOT109-1	
74 HCT139D			body width 3.9 mm		
74HC139PW	-40 °C to +125 °C	TSSOP16	plastic thin shrink small outline package;	SOT403-1	
74HCT139PW			16 leads; body width 4.4 mm		



4. Functional diagram

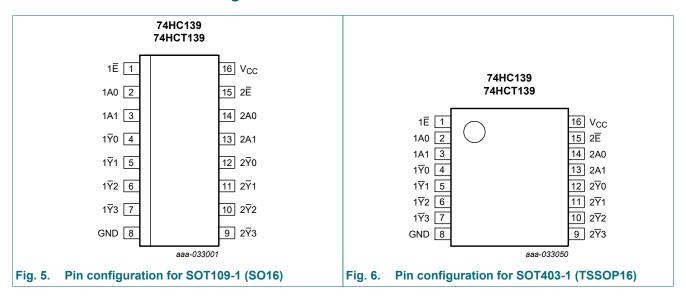






5. Pinning information

5.1. Pinning



5.2. Pin description

Table 2. Pin description

Symbol	Pin	Description
1Ē, 2Ē	1, 15	enable input (active LOW)
1A0, 1A1	2, 3	address input
1₹0, 1₹1, 1₹2, 1₹3	4, 5, 6, 7	output (active LOW)
GND	8	ground (0 V)
2₹0, 2₹1, 2₹2, 2₹3	12, 11, 10, 9	output (active LOW)
2A0, 2A1	14, 13	address input
V _{CC}	16	positive supply voltage

6. Functional description

Table 3. Function table

H = HIGH voltage level; L = LOW voltage level; X = don't care.

Control	Input		Output								
nΕ	nA1	nA0	n ₹3	n ₹2	n ₹1	n Y0					
Н	X	Х	Н	Н	Н	Н					
L	L	L	Н	Н	Н	L					
L	L	Н	Н	Н	L	Н					
L	Н	L	Н	L	Н	Н					
L	Н	Н	L	Н	Н	Н					

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	ı	Min	Max	Unit
V_{CC}	supply voltage		-	0.5	+7	V
I _{IK}	input clamping current	$V_{I} < -0.5 \text{ V or } V_{I} > V_{CC} + 0.5 \text{ V}$		-	±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	$V_{O} = -0.5 \text{ V to } (V_{CC} + 0.5 \text{ V})$		-	±25	mA
I _{CC}	quiescent supply current			-	50	mA
I _{GND}	ground current			-50	-	mA
T _{stg}	storage temperature			-65	+150	°C
P _{tot}	total power dissipation		[1]	-	500	mW

^[1] For SOT109-1 (SO16) package: P_{tot} derates linearly with 12.4 mW/K above 110 °C. For SOT403-1 (TSSOP16) package: P_{tot} derates linearly with 8.5 mW/K above 91 °C.

8. Recommended operating conditions

Table 5. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V)

Symbol	Parameter	Conditions		74HC139	•	7	Unit		
			Min	Тур	Max	Min	Тур	Max	
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
T _{amb}	ambient temperature		-40	+25	+125	-40	+25	+125	°C
Δt/ΔV	input transition rise and fall rate	V _{CC} = 2.0 V	-	-	625	-	-	-	ns/V
		V _{CC} = 4.5 V	-	1.67	139	-	1.67	139	ns/V
		V _{CC} = 6.0 V	-	-	83	-	-	-	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	+125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	1
74HC13	9						'		'	
V _{IH}	HIGH-level	V _{CC} = 2.0 V	1.5	1.2	-	1.5	-	1.5	-	٧
	input voltage	V _{CC} = 4.5 V	3.15	2.4	-	3.15	-	3.15	-	٧
		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	٧
	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 μ A; V_{CC} = 2.0 V	1.9	2.0	-	1.9	-	1.9	-	٧
		I _O = -20 μA; V _{CC} = 4.5 V	4.4	4.5	-	4.4	-	4.4	-	٧
		I_{O} = -20 μ A; V_{CC} = 6.0 V	5.9	6.0	-	5.9	-	5.9	-	٧
		$I_O = -4.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.98	4.32	-	3.84	-	3.7	-	٧
		I_{O} = -5.2 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	٧
		I _O = 20 μA; V _{CC} = 4.5 V	-	0	0.1	-	0.1	-	0.1	٧
		I _O = 20 μA; V _{CC} = 6.0 V	-	0	0.1	-	0.1	-	0.1	V
		I _O = 4.0 mA; V _{CC} = 4.5 V	-	0.15	0.26	-	0.33	-	0.4	٧
		$I_O = 5.2 \text{ mA}; V_{CC} = 6.0 \text{ V}$	-	0.16	0.26	-	0.33	-	0.4	V
l _l	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 6.0 \text{ V}$	-	-	±0.1	-	±1.0	-	±1.0	μA
l _{OZ}	OFF-state output current	$V_I = V_{IH}$ or V_{IL} ; $V_O = V_{CC}$ or GND; $V_{CC} = 6.0 \text{ V}$	-	-	±0.5	-	±5.0	-	±10.0	μA
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 6.0 \text{ V}$	-	-	8.0	-	80	-	160	μA
C _I	input capacitance		-	3.5	-	-	-	-	-	pF
74HCT1	39									
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} ; $V_{CC} = 4.5 \text{ V}$								
	output voltage	Ι _O = -20 μΑ	4.4	4.5	-	4.4	-	4.4	-	V
		I _O = -4 mA	3.98	4.32	-	3.84	-	3.7	-	V
V _{OL}	LOW-level	$V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 4.5 \text{ V}$								
	output voltage	Ι _O = 20 μΑ	-	0	0.1	-	0.1	-	0.1	V
		I _O = 4.0 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	μA

Symbol	Parameter	Conditions		25 °C		-40 °C to	+85 °C	-40 °C to	+125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
I _{OZ}	OFF-state output current	$V_I = V_{IH}$ or V_{IL} ; $V_O = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$	-	-	±0.5	-	±5.0	-	±10	μΑ
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$	-	-	8.0	-	80	-	160	μΑ
ΔI _{CC}	additional supply current	$V_I = V_{CC} - 2.1 \text{ V};$ other inputs at V_{CC} or GND; $V_{CC} = 4.5 \text{ V}$ to 5.5 V; $I_O = 0 \text{ A}$								
		per input pin; 1An inputs	-	70	252	-	315	-	343	μΑ
		per input pin; 2An inputs	-	70	252	-	315	-	343	μΑ
		per input pin; nĒ inputs	-	135	486	-	607.5	-	661.5	μΑ
Cı	input capacitance		-	3.5	-	-	-	-	-	pF

10. Dynamic characteristics

Table 7. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); C_L = 50 pF unless otherwise specified; for test circuit see Fig. 9.

Symbol	Parameter	Conditions		25 °C		-40 °C to	o +85 °C	-40 °C to	+125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
74HC139	9									
t _{pd}	propagation	nAn to $n\overline{Y}$ n; see Fig. 7 [1]							
	delay	V _{CC} = 2.0 V	-	39	145	-	180	-	220	ns
		V _{CC} = 4.5 V	-	14	29	-	36	-	44	ns
		V _{CC} = 5.0 V; C _L = 15 pF	-	11	-	-	-	-	-	ns
		V _{CC} = 6.0 V	-	11	25	-	31	-	38	ns
		nĒ to n∀n; see Fig. 8 [1]							
		V _{CC} = 2.0 V	-	33	135	-	170	-	205	ns
		V _{CC} = 4.5 V	-	12	27	-	34	-	41	ns
		$V_{CC} = 5.0 \text{ V}; C_L = 15 \text{ pF}$	-	10	-	-	-	-	-	ns
		V _{CC} = 6.0 V	-	10	23	-	29	-	35	ns
t _t	transition	n∀n; see <u>Fig. 7</u> and <u>Fig. 8</u> [2	2]							
	time	V _{CC} = 2.0 V	-	19	75	-	95	-	110	ns
		V _{CC} = 4.5 V	-	7	15	-	19	-	22	ns
		V _{CC} = 6.0 V	-	6	13	-	16	-	19	ns
C _{PD}	power dissipation capacitance	$C_L = 50 \text{ pF}; f = 1 \text{ MHz};$ [3 $V_I = \text{GND to } V_{CC}$	-	42	-	-	-	-	-	pF

Symbol	Parameter	Conditions			25 °C		-40 °C t	o +85 °C	-40 °C to	+125 °C	Unit
				Min	Тур	Max	Min	Max	Min	Max	
74HCT1	39										
t _{pd}	propagation	nAn to ₹n; see Fig. 7	[1]								
delay	V _{CC} = 4.5 V		-	16	34	-	43	-	51	ns	
		$V_{CC} = 5.0 \text{ V}; C_L = 15 \text{ pF}$		-	13	-	-	-	-	-	ns
		nĒ to n∀n; see <u>Fig. 8</u>	[1]								
		V _{CC} = 4.5 V		-	16	34	-	43	-	51	ns
		V _{CC} = 5.0 V; C _L = 15 pF		-	13	-	-	-	-	-	ns
t _t	transition	n Y n; see <u>Fig. 7</u> and <u>Fig. 8</u>	[2]								
	time	V _{CC} = 4.5 V		-	7	15	-	19	-	22	ns
C _{PD}	power dissipation capacitance	$C_L = 50 \text{ pF; } f = 1 \text{ MHz;}$ $V_I = \text{GND to } V_{CC} - 1.5 \text{ V}$	[3]	-	44	-	-	-	-	-	pF

- t_{pd} is the same as t_{PLH} and t_{PHL} .
- 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).

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

 f_i = input frequency in MHz;

f_o = output frequency in MHz;

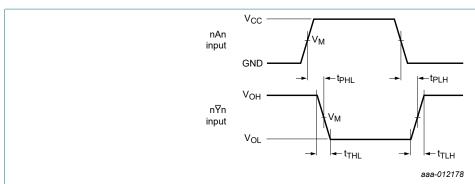
C_L = output load capacitance in pF;

V_{CC} = supply voltage in V;

N = number of inputs switching;

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

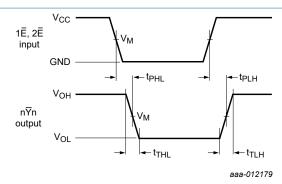
10.1. Waveforms and test circuit



Measurement points are given in Table 8.

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

Propagation delay input (nAn) to output (n\overline{Y}n) and transition time output (n\overline{Y}n) Fig. 7.



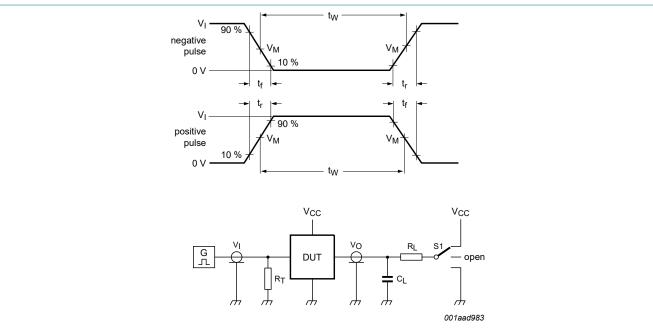
Measurement points are given in Table 8.

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

Fig. 8. Propagation delay enable input $(n\overline{E})$ to output $(n\overline{Y}n)$ and transition time output $(n\overline{Y}n)$

Table 8. Measurement points

Туре	Input	Output			
	V _M	V _M			
74HC139	0.5V _{CC}	0.5V _{CC}			
74HCT139	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_I = Load resistance.

S1 = Test selection switch.

Fig. 9. Test circuit for measuring switching times

Table 9. Test data

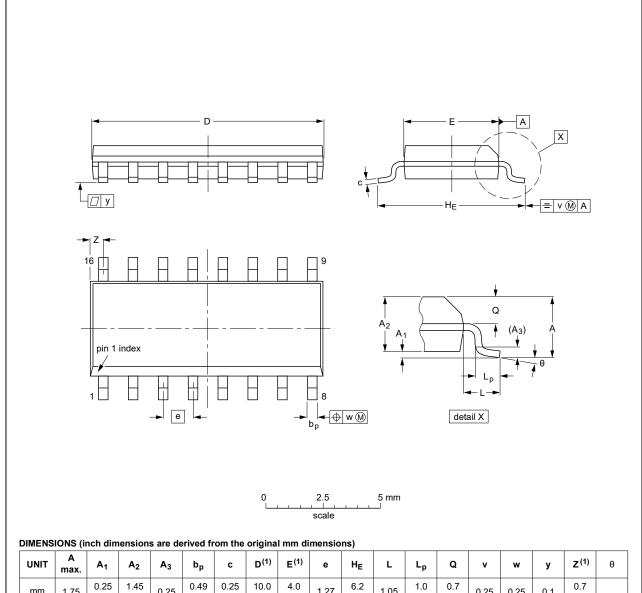
Туре	Input		Load		S1 position				
	V _I	t _r , t _f	CL	R_L	t _{PHL} , t _{PLH}	t _{PZH} , t _{PHZ}	t_{PZL}, t_{PLZ}		
74HC139	V _{CC}	6 ns	15 pF, 50 pF	1 kΩ	open	GND	V _{CC}		
74HCT139	3 V	6 ns	15 pF, 50 pF	1 kΩ	open	GND	V _{CC}		

8 / 13

11. 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		0.0100 0.0075	0.39 0.38	0.16 0.15	0.05	0.244 0.228	0.041	0.039 0.016	0.028 0.020	0.01	0.01	0.004	0.028 0.012	0°

Note

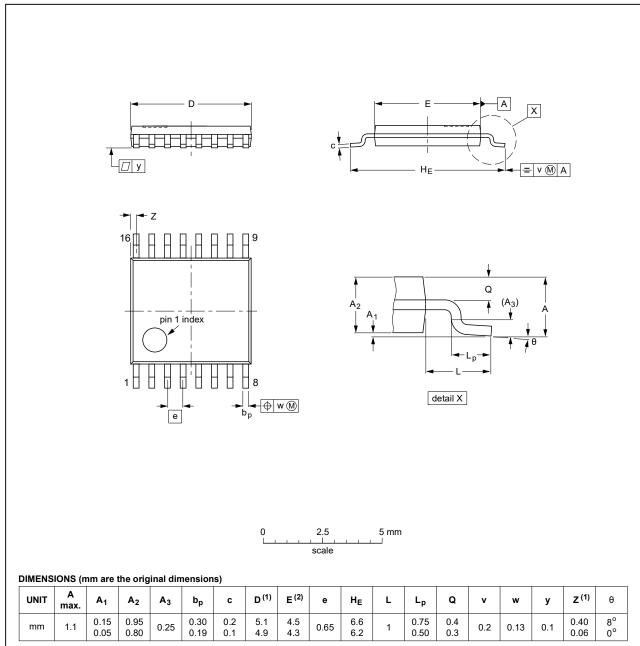
1. Plastic or metal protrusions of 0.15 mm (0.006 inch) maximum per side are not included.

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

Fig. 10. Package outline SOT109-1 (SO16)

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

SOT403-1



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

Fig. 11. Package outline SOT403-1 (TSSOP16)

12. Abbreviations

Table 10. Abbreviations

Acronym	Description
CMOS	Complementary Metal-Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
HBM	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_HCT139 v.5	20210114	Product data sheet	-	74HC_HCT139 v.4	
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. Type numbers 74HC139DB and 74HCT139DB (SOT338-1 / SSOP16) removed. Section 7: Derating values for P_{tot} total power dissipation have been updated. 				
74HC_HCT139 v.4	20151211	Product data sheet	-	74HC_HCT139 v.3	
Modifications:	Type numbers 74HC139N and 74HCT139N (SOT38-4) removed.				
74HC_HCT139 v.3	20140328	Product data sheet	-	74HC_HCT139 v.2	
Modifications:	 The format of this data sheet has been redesigned to comply with the new identity guidelines of NXP Semiconductors. Legal texts have been adapted to the new company name where appropriate. 				
74HC_HCT139_CNV v.2	19930927	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.

- 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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